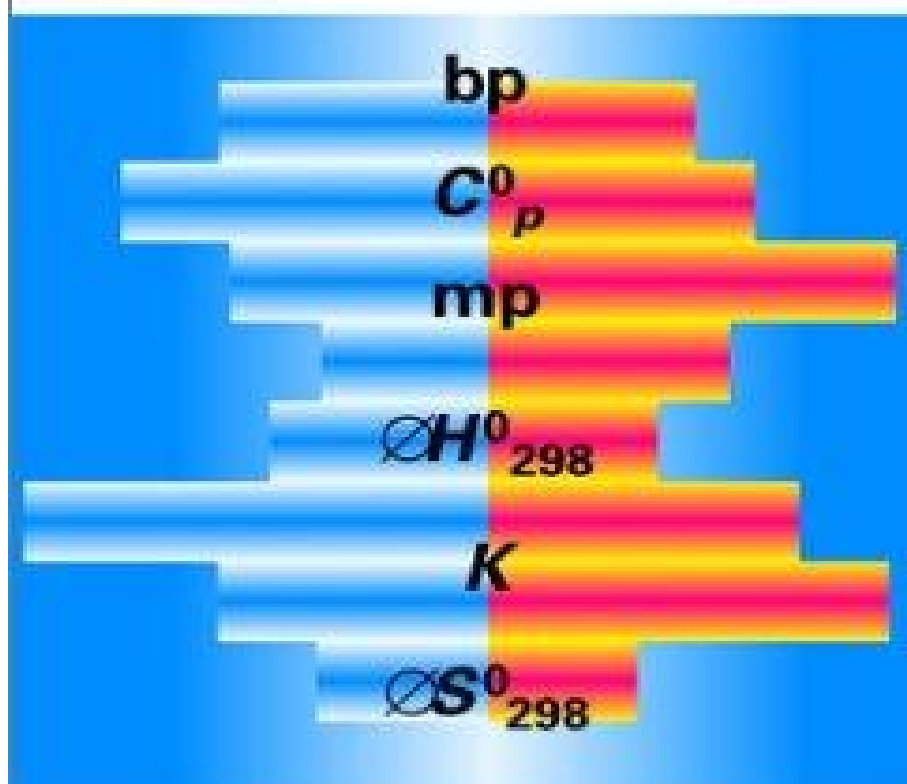


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M. Binnewies, E. Milke

Thermochemical Data of Elements and Compounds

Second, Revised
and Extended Edition



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and Compounds**

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1 Introduction

This book contains a compact collection of thermochemical data of elements of many inorganic and some organic compounds. In this second edition well established selected values (references [1]...[8]) are compiled together with about 500 original references. In several cases roughly estimated entropy and molar heat data are given in addition to measured enthalpy data.

We deliberately limited our enthalpy and entropy data to a temperature of 298 K, because by using the C_p -data it is very simple to calculate thermochemical data for other temperatures. Thus, it was possible to collect about 5200 entries in one volume.

Formulae are given in alphabetical order of the elements present in a compound: e.g. AlCl_3 but Cl_2Mg . The next principle of arrangement is the number of atoms: e.g. P_2 appears before P_4 and CCl_2 before CCl_4 . Due to this principle of order, we obtain a very unambiguous criterion for compound searching, even though the formulae are presented in an unusual way. For clarity, customary chemical formulae and names are also given. So, it should be no problem to find a certain substance, even if the rules of nomenclature have in some cases not been followed.

It is a great pleasure for us to thank Dr. T. Plaggenborg and C. Rose for her help.

Hannover (Germany) 2002

M. Binnewies, E. Milke

2 Comments on the Data

The following data are (maximally) given (standard pressure 1 bar)

1st line: **alphabetical formula (state)** **name** **alphabetical formula (state)**

((s) =solid, (l) = liquid, (g) = gaseous)

2nd line: **chemical formula (state)** **chemical formula (state)**

(not given if alphabetical and chemical formula are identical)

3rd line: **melting point (K) and (°C)** **boiling point (K) and (°C)**

(These values are always listed at the first entry of a substance)

4th line: **heat of formation at 298 K [reference], entropy at 298 K [reference]**

or heat of formation at T [reference], entropy at T [reference]

5th line: **molar heat capacity at constant pressure** as a fixed value or in the form of the
polynomial

$$C_p^0 = a + b \cdot 10^{-3} T + c \cdot 10^6 T^{-2} + d \cdot 10^{-6} T^2 \quad (T\text{-range}) \text{ [reference]}$$

(In many cases not all of the four coefficients a...d are given. In these cases the polynomial becomes somewhat simpler.)

6th line: **special equilibrium constant as a function of temperature** in the form of the equation

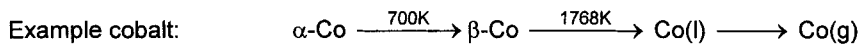
$$\lg(p, K) = e \cdot 10^3 T^{-1} + f \cdot \lg(T) + g \quad (T\text{-range}) \quad [\text{reference}]$$

(often values are given for evaporation, sublimation (p) or decomposition reactions (K))

7th line: Remarks to line 6

Estimated values are given in [].

In many cases data are given for one substance in several states (for instance several solid states, liquid or gaseous states). For each state a new entry is made. Usually data are given for the minimum and the maximum of the stability range.



1st entry	Data at 298 K	$\alpha\text{-Co}$
2nd entry	Data at 700 K	$\alpha\text{-Co}$
3rd entry	Data at 700 K	$\beta\text{-Co}$
4th entry	Data at 1768 K	$\beta\text{-Co}$
5th entry	Data at 1768 K	Co(l)
6th entry	Data at 298 K	Co(l)
7th entry	Data at 298 K	Co(g)

Enthalpies of transformation, melting and evaporation can simply be calculated from these values.

Calculation of Enthalpy and Entropy Values for Other Temperatures:

$$\Delta_R H_T^0 = \Delta_R H_{298}^0 + \int_{298}^T C_p^0 dT$$

$$C_p^0 = a + b \cdot 10^{-3} \cdot T + c \cdot 10^6 \cdot T^{-2} + d \cdot 10^{-6} T^2$$

$$\begin{aligned} \int_{298}^T C_p^0 dT &= a \cdot [T - 298] + b \cdot [0.5 \cdot 10^{-3} (T^2 - 298^2)] \\ &\quad + c \cdot [10^6 (298^{-1} - T^{-1})] + d \cdot \left[\frac{1}{3} \cdot 10^{-6} (T^3 - 298^3) \right] \end{aligned}$$

$$S_T^0 = S_{298}^0 + \int_{298}^T C_p^0 \frac{dT}{T}$$

$$\begin{aligned} \int_{298}^T C_p^0 \frac{dT}{T} &= a \cdot \ln \frac{T}{298} + b \cdot 10^{-3} \cdot (T - 298) \\ &\quad - \frac{1}{2} \cdot c \cdot 10^6 (T^{-2} - 298^{-2}) + d \cdot [0.5 \cdot 10^{-6} (T^2 - 298^2)] \end{aligned}$$

3 List of Symbols

bp	boiling point
C_p^0	standard molar heat capacity (298 K, 1 bar)
g	gaseous
ΔH_{298}^0	standard heat of formation (298 K, 1 bar) ($\text{kJ}\cdot\text{mol}^{-1}$)
ΔH_T^0	heat of formation (T , 1 bar) ($\text{kJ}\cdot\text{mol}^{-1}$)
K	equilibrium constant K_p
l	liquid
mp	melting point
p	pressure/bar
s	solid
S_{298}^0	standard entropy (298 K, 1 bar) ($\text{J}\cdot\text{K}^{-1}\cdot\text{mol}^{-1}$)
S_T^0	entropy (T , 1 bar) ($\text{J}\cdot\text{K}^{-1}\cdot\text{mol}^{-1}$)
[]	estimated values

4 Conversion Factors and Fundamental Constants

Energy Units

	$\text{kJ}\cdot\text{mol}^{-1}$	$\text{kcal}\cdot\text{mol}^{-1}$	eV	cm^{-1}
1 $\text{kJ}\cdot\text{mol}^{-1}$	1	0.239006	0.0103644	85.53947
1 $\text{kcal}\cdot\text{mol}^{-1}$	4.184	1	0.0433645	349.7551
1 eV	96.4846	23.06036	1	8065.478
1 cm^{-1}	$1.196\cdot 10^{-3}$	$2.859\cdot 10^{-3}$	$1.240\cdot 10^{-4}$	1

Pressure Units

	Pa	bar	atm	torr
1 Pa	1	10^{-5}	$9.869\cdot 10^{-6}$	$7.501\cdot 10^{-3}$
1 bar	10^5	1	0.986923	750.062
1 atm	101325	1.01325	1	760
1 torr	133.322	$1.333\cdot 10^{-3}$	$1.316\cdot 10^{-3}$	1

Fundamental Constants

<i>e</i>	electron charge	$1.602189 \cdot 10^{-19} \text{ A}\cdot\text{s}$
<i>h</i>	Planck constant	$6.62176 \cdot 10^{-34} \text{ J}\cdot\text{s}$
<i>k</i>	Boltzmann constant	$1.380662 \cdot 10^{-23} \text{ J}\cdot\text{K}^{-1}$
<i>R</i>	molar gas constant	$8.31441 \text{ J}\cdot\text{K}^{-1}\cdot\text{mol}^{-1}$ $0.08206 \text{ l}\cdot\text{atm}\cdot\text{K}^{-1}\cdot\text{mol}^{-1}$ $0.08314 \text{ l}\cdot\text{bar}\cdot\text{K}^{-1}\cdot\text{mol}^{-1}$
<i>c</i>	speed of light (vac.)	$299792458 \text{ m}\cdot\text{s}^{-1}$
<i>F</i>	Faraday constant	$9.648456 \cdot 10^4 \text{ A}\cdot\text{s}\cdot\text{mol}^{-1}$

5 Data

Ag (s)	Silver	Ag (s)
mp = 1235 K (962 °C)		bp = 2432 K (2159 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 42.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 24.22 + 2.74 \cdot 10^{-3} \cdot T + 2.84 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1235 K) [4]		
$\lg(p,K) = -15.13 \cdot 10^3 \cdot T^{-1} - 1.21 \cdot \lg(T) + 10.58$ (1000 ... 1235 K) [4]		
{Reaction: evaporation (total pressure)}		

Ag (s)	Silver	Ag (s)
$\Delta H_{1235}^0 = 26.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1235}^0 = 81.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1235 K) [4]		

Ag (l)	Silver	Ag (l)
$\Delta H_{1235}^0 = 37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1235}^0 = 90.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1235 ... 2432 K) [4]		
$\lg(p,K) = -14.71 \cdot 10^3 \cdot T^{-1} - 1.53 \cdot \lg(T) + 11.23$ (1235 ... 2300 K) [4]		
{Reaction: evaporation (total pressure)}		

Ag (g)	Silver	Ag (g)
$\Delta H_{298}^0 = 284.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 173 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

AgBr (s)	Silver Bromide	AgBr (s)
mp = 700 K (427 °C)		bp = 1833 K (1560 °C)
$\Delta H_{298}^0 = -100.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 107.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 33.18 + 64.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 700 K) [4]		

AgBr (s)	Silver Bromide	AgBr (s)
$\Delta H_{700}^0 = -74.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{700}^0 = 161.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (700 K) [4]		

AgBr (l)	Silver Bromide	AgBr (l)
$\Delta H_{700}^0 = -65.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{700}^0 = 174.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (700 ... 1831 K) [4]		
$\lg(p,K) = -12.43 \cdot 10^3 \cdot T^{-1} - 3.01 \cdot \lg(T) + 16.61$ (800 ... 1831 K) [4]		
{Reaction: evaporation (total pressure)}		
AgBr (g)	Silver Bromide	AgBr (g)
$\Delta H_{298}^0 = 140.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 272.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AgBrO₃ (s)	Silver Bromate	AgBrO₃ (s)
$\Delta H_{298}^0 = -26.4 \text{ kJ}\cdot\text{mol}^{-1}$ [3]		$S_{298}^0 = 154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [3]
AgCN (s)	Silver Cyanide	AgCN (s)
$\Delta H_{298}^0 = 146 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 107.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AgCNO (s)	Silver Cyanate	AgCNO (s)
$\Delta H_{298}^0 = -95 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 121 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
AgCNS (s) AgSCN (s)	Silver Thiocyanate	AgCNS (s) AgSCN (s)
$\Delta H_{298}^0 = 88 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 131 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
AgC₂H₃O₂ (s)	Silver Acetate	AgC₂H₃O₂ (s)
$\Delta H_{298}^0 = -399 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 150 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]

AgCl (s)	Silver Chloride	AgCl (s)
mp = 730 K (457 °C)		bp = 1835 K (1562 °C)
$\Delta H_{298}^0 = -127.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 96.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.1 + 52.96 \cdot 10^{-3} \cdot T + 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 730 K) [4]		
AgCl (s)	Silver Chloride	AgCl (s)
$\Delta H_{730}^0 = -101.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{730}^0 = 149 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (730 K) [4]		
AgCl (l)	Silver Chloride	AgCl (l)
$\Delta H_{730}^0 = -87.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{730}^0 = 167.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.66 - 8.87 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (730 ... 1835 K) [4]		
$\lg(p, K) = -10.75 \cdot 10^3 \cdot T^{-1} - 2.29 \cdot \lg(T) + 13.33$ (730 ... 1835 K) [4]		
{Reaction: evaporation (total pressure)}		
AgCl (g)	Silver Chloride	AgCl (g)
$\Delta H_{298}^0 = 89 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 246.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
AgClO₃ (s)	Silver Chlorate	AgClO₃ (s)
mp = 528 K (255 °C)		
$\Delta H_{298}^0 = -30.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 141.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AgF (s)	Silver Fluoride	AgF (s)
mp = 708 K (435 °C)		bp = 1420 K (1147 °C)
$\Delta H_{298}^0 = -204.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 53.05 + 16.15 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 708 K) [4]		
AgF (g)	Silver Fluoride	AgF (g)
$\Delta H_{298}^0 = 7.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 235.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AgF₆U (s)	Silver Uranium Fluoride	AgF₆U (s)
AgUF ₆ (s)		AgUF ₆ (s)

$$\Delta H_{298}^0 = -2353.3 \pm 8.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [245]}$$

$$S_{298}^0 = [263.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [246, 8]}$$

$$C_p^0 = [180.22] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

AgI (s)	Silver Iodide gamma	AgI (s)
----------------	------------------------	----------------

$$\text{mp} = 830 \text{ K (557 } ^\circ\text{C)}$$

$$\text{bp} = 1773 \text{ K (1500 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -61.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 115.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 35.77 + 71.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 420 K) [4]}$$

AgI (s)	Silver Iodide gamma	AgI (s)
----------------	------------------------	----------------

$$\Delta H_{420}^0 = -54.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{420}^0 = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 65.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (420 K) [4]}$$

AgI (s)	Silver Iodide alpha	AgI (s)
----------------	------------------------	----------------

$$\Delta H_{420}^0 = -48.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{420}^0 = 151.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 43.66 + 14.83 \cdot 10^{-3} \cdot T + 1.52 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (420 ... 830 K) [4]}$$

$$\lg(p, K) = -11.32 \cdot 10^3 \cdot T^{-1} + 2.28 \cdot \lg(T) + 14.12 \text{ (700 ... 830 K) [4]}$$

{Reaction: evaporation (total pressure)}

AgI (s)	Silver Iodide alpha	AgI (s)
----------------	------------------------	----------------

$$\Delta H_{830}^0 = -24.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{830}^0 = 190.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 58.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (830 K) [4]}$$

AgI (l)	Silver Iodide	AgI (l)
----------------	---------------	----------------

$$\Delta H_{830}^0 = -15.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{830}^0 = 201.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (830 ... 1773 K) [4]}$$

$$\lg(p, K) = -10.87 \cdot 10^3 \cdot T^{-1} - 2.38 \cdot \lg(T) + 13.86 \text{ (830 ... 1773 K) [4]}$$

{Reaction: evaporation as AgI(g)}

AgI (l)	Silver Iodide	AgI (l)
$\Delta H_{1773}^0 = 40 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1773}^0 = 246.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1773 K) [4]		
AgI (g)	Silver Iodide	AgI (g)
$\Delta H_{1773}^0 = 212.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1773}^0 = 343.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1773 K) [4]		
AgI (g)	Silver Iodide	AgI (g)
$\Delta H_{298}^0 = 155.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 275.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.92 - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AgNO₂ (s)	Silver Nitrite	AgNO₂ (s)
$\Delta H_{298}^0 = -45.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 128.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.89 + 129.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 517 K) [4]		
$\lg(p, K) = -4.56 \cdot 10^3 \cdot T^{-1} - 3.54 \cdot \lg(T) + 18.43$ (298 ... 517 K) [4]		
{Reaction: $\text{AgNO}_2(\text{s}) = \text{Ag}(\text{s}) + \text{NO}_2(\text{g})$ }		
AgNO₃ (s)	Silver Nitrate alpha	AgNO₃ (s)
mp = 483 K (210 °C)		
$\Delta H_{298}^0 = -124.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 140.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.65 + 189.12 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 433 K) [4]		
AgNO₃ (s)	Silver Nitrate alpha	AgNO₃ (s)
$\Delta H_{433}^0 = -110.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{433}^0 = 180.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 118.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (433 K) [4]		

AgNO₃ (s)	Silver Nitrate beta	AgNO₃ (s)
-----------------------------	------------------------	-----------------------------

$$\Delta H_{433}^0 = -107.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 106.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (433 \dots 483 \text{ K}) [4]$$

$$S_{433}^0 = 185.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

AgNO₃ (s)	Silver Nitrate beta	AgNO₃ (s)
-----------------------------	------------------------	-----------------------------

$$\Delta H_{483}^0 = -102.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 106.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (483 \text{ K}) [4]$$

$$S_{483}^0 = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

AgNO₃ (l)	Silver Nitrate	AgNO₃ (l)
-----------------------------	----------------	-----------------------------

$$\Delta H_{483}^0 = -90.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 128.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (483 \dots 665 \text{ K}) [4]$$

$$S_{483}^0 = 221.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

AgO₄Re (s) AgReO ₄ (s)	Silver Perrhenate	AgO₄Re (s) AgReO ₄ (s)
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$$\text{mp} = 728 \text{ K} (455 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -736 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 90.65 + 112.45 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 500 \text{ K}) [4]$$

$$S_{298}^0 = 153.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

AgP₂ (s)	Silver Diphosphide	AgP₂ (s)
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$$\Delta H_{298}^0 = -43.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 72.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 87.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

AgP₃ (s)	Silver Triphosphide	AgP₃ (s)
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$$\Delta H_{298}^0 = -69.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 103.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

AgS (g)	Silver Sulfide	AgS (g)
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$$\Delta H_{298}^0 = [393.3] \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$C_p^0 = [37.36] + [0.03] \cdot 10^{-3} \cdot T + [0.12] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [5]$$

$$S_{298}^0 = [261.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

Ag_{1.64}S (s)	Silver Sulfide	Ag_{1.64}S (s)
$\Delta H_{298}^0 = -31.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 133.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [66.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [15]		
Ag₂CO₃ (s)	Silver Carbonate alpha	Ag₂CO₃ (s)
$\Delta H_{298}^0 = -509.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 170.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.37 + 108.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 457 K) [4]		
Ag₂CO₃ (s)	Silver Carbonate alpha	Ag₂CO₃ (s)
$\Delta H_{457}^0 = -490.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{457}^0 = 221.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 128.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (457 K) [4]		
Ag₂CO₃ (s)	Silver Carbonate beta	Ag₂CO₃ (s)
$\Delta H_{457}^0 = -485.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{457}^0 = 232.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.37 + 108.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (457 ... 491 K) [4]		
Ag₂C₂O₄ (s)	Silver Oxalate	Ag₂C₂O₄ (s)
$\Delta H_{298}^0 = -673 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 209 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
Ag₂CrO₄ (s)	Silver Chromate	Ag₂CrO₄ (s)
$\Delta H_{298}^0 = -731.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 132.21 + 66.94 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [3]		

Ag₂O (s)	Silver Oxide	Ag₂O (s)
$\Delta H_{298}^0 = -31 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 59.33 + 40.79 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 460 K) [4]		
$\lg(p,K) = -3.38 \cdot 10^3 \cdot T^{-1} - 1.14 \cdot \lg(T) + 10.39$ (298 ... 460 K) [4]		
{Reaction: $2\text{Ag}_2\text{O}(s) = 4\text{Ag}(s) + \text{O}_2(g)$ }		
Ag₂O₄S (s)	Silver Sulfate alpha	Ag₂O₄S (s) Ag ₂ SO ₄ (s)
mp = 933 K (660 °C)		
$\Delta H_{298}^0 = -717.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 199.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.65 + 116.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 703 K) [4]		
Ag₂O₄S (s)	Silver Sulfate alpha	Ag₂O₄S (s) Ag ₂ SO ₄ (s)
$\Delta H_{703}^0 = -654.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{703}^0 = 330 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 178.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (703 K) [4]		
Ag₂O₄S (s)	Silver Sulfate beta	Ag₂O₄S (s) Ag ₂ SO ₄ (s)
$\Delta H_{703}^0 = -638.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{703}^0 = 352.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.65 + 116.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (703 ... 933 K) [4]		
Ag₂O₄S (s)	Silver Sulfate beta	Ag₂O₄S (s) Ag ₂ SO ₄ (s)
$\Delta H_{933}^0 = -594.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{933}^0 = 406.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 205.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (933 K) [4]		
Ag₂O₄S (l)	Silver Sulfate	Ag₂O₄S (l) Ag ₂ SO ₄ (l)
$\Delta H_{933}^0 = -576.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{933}^0 = 425.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 205.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (933 ... 1300 K) [4]		

Ag₂O₄W (s)	Silver Tungstate	Ag₂O₄W (s)
Ag ₂ WO ₄ (s)		Ag ₂ WO ₄ (s)

$$\Delta H_{298}^0 = -925.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 205 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 148.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ag₂S (s)	Silver Sulfide alpha	Ag₂S (s)
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$$\text{mp} = 1115 \text{ K} (842 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -31.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 143.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 64.6 + 39.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 451 \text{ K}) [4]$$

Ag₂S (s)	Silver Sulfide alpha	Ag₂S (s)
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$$\Delta H_{451}^0 = -19.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{451}^0 = 176.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (451 \text{ K}) [4]$$

Ag₂S (s)	Silver Sulfide beta	Ag₂S (s)
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$$\Delta H_{451}^0 = -15.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{451}^0 = 185.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.34 + 2.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (451 \dots 895 \text{ K}) [4]$$

$$\lg(p, K) = -9.75 \cdot 10^3 \cdot T^{-1} - 2.11 \cdot \lg(T) + 10.81 (800 \dots 895 \text{ K}) [4]$$

{Reaction: 2Ag₂S(s) = 4Ag(s) + S₂(g)}

Ag₂S (s)	Silver Sulfide beta	Ag₂S (s)
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$$\Delta H_{895}^0 = 21.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{895}^0 = 242.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 83.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (895 \text{ K}) [4]$$

Ag₂S (s)	Silver Sulfide gamma	Ag₂S (s)
$\Delta H_{895}^0 = 22.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{895}^0 = 242.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (895 ... 1115 K) [4]		
$\lg(p,K) = -9.31 \cdot 10^3 \cdot T^{-1} - 1.12 \cdot \lg(T) + 7.39$ (895 ... 1079 K) [4]		
{Reaction: $2\text{Ag}_2\text{S}(s) = 4\text{Ag}(s) + \text{S}_2(g)$ }		
Ag₂S (s)	Silver Sulfide gamma	Ag₂S (s)
$\Delta H_{1115}^0 = 40.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1115}^0 = 261 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1115 K) [4]		
Ag₂S (l)	Silver Sulfide	Ag₂S (l)
$\Delta H_{1115}^0 = 48.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1115}^0 = 268 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 93.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1115 K) [4]		
Ag₂Se (s)	Silver Selenide alpha	Ag₂Se (s)
mp = 1170 K (897 °C)		
$\Delta H_{298}^0 = -16.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 150.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.15 + 54.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 406 K) [4]		
Ag₂Se (s)	Silver Selenide alpha	Ag₂Se (s)
$\Delta H_{406}^0 = -7.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{406}^0 = 176.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 87.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (406 K) [4]		

Ag₂Se (s)	Silver Selenide beta	Ag₂Se (s)
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$$\Delta H_{406}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{406}^0 = 193.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 80.5 + 9.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (406 \dots 1170 \text{ K}) [4]$$

$$\lg(p, K) = -8.22 \cdot 10^3 \cdot T^{-1} - 2.18 \cdot \lg(T) + 10.2 (700 \dots 1170 \text{ K}) [4]$$

{Reaction: 2Ag₂Se(s) = 4Ag(s) + Se₂(g)}

Ag₂Te (s)	Silver Telluride alpha	Ag₂Te (s)
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$$\text{mp} = 1232 \text{ K} (959 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -36 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 49.2 + 109.62 \cdot 10^{-3} \cdot T + 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 421 \text{ K}) [4]$$

Ag₂Te (s)	Silver Telluride alpha	Ag₂Te (s)
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$$\Delta H_{421}^0 = -24.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{421}^0 = 184.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 96.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (421 \text{ K}) [4]$$

Ag₂Te (s)	Silver Telluride beta	Ag₂Te (s)
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$$\Delta H_{421}^0 = -18.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{421}^0 = 200.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 84.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (421 \dots 1232 \text{ K}) [4]$$

$$\lg(p, K) = -10.77 \cdot 10^3 \cdot T^{-1} - 0.32 \cdot \lg(T) + 4.22 (900 \dots 1232 \text{ K}) [4]$$

{Reaction: 2Ag₂Te(s) = 4Ag(s) + Te₂(g)}

Ag₃AsO₄ (s)	Silver Arsenate	Ag₃AsO₄ (s)
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$$\Delta H_{298}^0 = -634.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 275.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 173.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ag₃Cl₃ (g) (AgCl) ₃ (g)	Silver Chloride	Ag₃Cl₃ (g) (AgCl) ₃ (g)
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$$\Delta H_{298}^0 = -146.4 \text{ kJ}\cdot\text{mol}^{-1} [70]$$

$$S_{298}^0 = 455.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [70]$$

Ag₃I₃ (g) (AgI) ₃ (g)	Silver Iodide	Ag₃I₃ (g) (AgI) ₃ (g)
$\Delta H_{298}^0 = -405.4 \text{ kJ}\cdot\text{mol}^{-1}$ [71]		$S_{298}^0 = [510.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [71]
Al (s)	Aluminium	Al (s)
mp = 933 K (660 °C)		bp = 2790 K (2517 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 28.3 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.11 + 13.17 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 933 K) [4]		
Al (s)	Aluminium	Al (s)
$\Delta H_{933}^0 = 18.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{933}^0 = 59.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (933 K) [4]		
Al (l)	Aluminium	Al (l)
$\Delta H_{933}^0 = 28.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{933}^0 = 71.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (933 ... 2790 K) [4]		
$\lg(p, K) = -16.95 \cdot 10^3 \cdot T^{-1} - 1.32 \cdot \lg(T) + 10.62$ (1100 ... 2790 K) [4]		
{Reaction: evaporation (total pressure)}		
Al (l)	Aluminium	Al (l)
$\Delta H_{298}^0 = 10.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 39.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (933 ... 2790 K) [4]		
Al (g)	Aluminium	Al (g)
$\Delta H_{298}^0 = 329.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 164.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.78 + 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
AlAs (s)	Aluminium Arsenide	AlAs (s)
mp = 2013 K (1740 °C)		
$\Delta H_{298}^0 = -116.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 60.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.93 + 6.28 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2013 K) [4]		

AlAsO₄ (s)	Aluminium Arsenate	AlAsO₄ (s)
$\Delta H_{298}^0 = -1431.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 145.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 118.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlAu (s) AuAl (s)	Aluminium Gold	AlAu (s) AuAl (s)
$\Delta H_{298}^0 = -77.4 \text{ kJ}\cdot\text{mol}^{-1}$ [3]		$S_{298}^0 = [75.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [234, 8]
AlBO₂ (g)	Aluminium Borate	AlBO₂ (g)
$\Delta H_{298}^0 = -541.4 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 269.6 \pm 10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlB₂ (s)	Aluminium Boride	AlB₂ (s)
$\Delta H_{298}^0 = -151 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 34.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlB₁₂ (s)	Aluminium Boride	AlB₁₂ (s)
$\Delta H_{298}^0 = -266.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 211.29 + 115.06 \cdot 10^{-3} \cdot T - 8.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... mp K) [3]		
AlBr (g)	Aluminium(I) Bromide	AlBr (g)
$\Delta H_{298}^0 = 15.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 239.6 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.26 + 0.59 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlBr₃ (s)	Aluminium(III) Bromide	AlBr₃ (s)
mp = 371 K (98 °C)		bp = 527 K (254 °C)
$\Delta H_{298}^0 = -511.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 180.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.17 + 169.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 371 K) [4]		

AlBr₃ (s)	Aluminium(III) Bromide	AlBr₃ (s)
$\Delta H_{371}^0 = -503.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{371}^0 = 203.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (371 K) [4]		
AlBr₃ (l)	Aluminium(III) Bromide	AlBr₃ (l)
$\Delta H_{371}^0 = -492.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{371}^0 = 233.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (371 K) [4]		
AlBr₃ (l)	Aluminium(III) Bromide	AlBr₃ (l)
$\Delta H_{298}^0 = -501.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 206.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlBr₃ (g)	Aluminium(III) Bromide	AlBr₃ (g)
$\Delta H_{298}^0 = -410.5 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 349.4 \pm 1.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 80.71 + 2.81 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlC (g)	Aluminium Carbide	AlC (g)
$\Delta H_{298}^0 = 689.5 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 223.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlCeO₃ (s) CeAlO ₃ (s)	Cerium Aluminium Oxide	AlCeO₃ (s) CeAlO ₃ (s)
$\Delta H_{298}^0 = -1753.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 109.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 94.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlCl (g)	Aluminium(I) Chloride	AlCl (g)
$\Delta H_{298}^0 = -51.5 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.38 + 0.46 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

AICIF (g)	Aluminium Chloride Fluoride	AICIF (g)
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$$\Delta H_{298}^0 = -489.5 \pm 63 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 282.9 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 48.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

AICIF₂ (g)	Aluminium Chloride Difluoride	AICIF₂ (g)
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$$\Delta H_{298}^0 = -999.1 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 297.8 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 65.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

AICIO (s)	Aluminium Chloride Oxide	AICIO (s)
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AIOCl (s)

AIOCl (s)

$$\Delta H_{298}^0 = -793.3 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 54.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 55.35 + 34.35 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 452 \text{ K}) [4]$$

AICIO (g)	Aluminium Chloride Oxide	AICIO (g)
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AIOCl (g)

AIOCl (g)

$$\Delta H_{298}^0 = -348.1 \pm 20 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 248.9 \pm 20 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 60.36 + 1.05 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

AICl₂ (g)	Aluminium(II) Chloride	AICl₂ (g)
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$$\Delta H_{298}^0 = -280.3 \pm 20 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 289.4 \pm 2.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 57.68 + 0.28 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

AICl₂F (g)	Aluminium Dichloride Fluoride	AICl₂F (g)
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$$\Delta H_{298}^0 = -790.8 \pm 6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 311.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

AICl₃ (s)	Aluminium(III) Chloride	AICl₃ (s)
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mp = 466 K (193 °C)

bp = 454 K (181 °C)

$$\Delta H_{298}^0 = -705.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 109.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 64.94 + 87.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 454 \text{ K}) [4]$$

AlCl₃ (l)	Aluminium(III) Chloride	AlCl₃ (l)
$\Delta H_{298}^0 = -674.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 172.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

AlCl₃ (g)	Aluminium(III) Chloride	AlCl₃ (g)
$\Delta H_{298}^0 = -584.6 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 314.5 \pm 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.97 + 0.63 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

AlCl₃H₁₂O₆ (s)	Aluminium(III) Chloride Hexahydrate	AlCl₃H₁₂O₆ (s)
AlCl ₃ · 6H ₂ O (s)		AlCl ₃ · 6H ₂ O (s)
$\Delta H_{298}^0 = -2691.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 318 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 296.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AlCl₄K (s)	Potassium Tetrachloroaluminate	AlCl₄K (s)
KAICl ₄ (s)		KAICl ₄ (s)
mp = 529 K (256 °C)		
$\Delta H_{298}^0 = -1196.6 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 196.6 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 130.14 + 88.38 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 529 K) [4]		

AlCl₄Na (s)	Sodium Tetrachloroaluminate	AlCl₄Na (s)
NaAlCl ₄ (s)		NaAlCl ₄ (s)
mp = 426 K (153 °C)		
$\Delta H_{298}^0 = -1138.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 126.8 + 94.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 426 K) [4]		

AlCl₄Na (g)	Sodium Tetrachloroaluminate	AlCl₄Na (g)
NaAlCl ₄ (g)		NaAlCl ₄ (g)
$\Delta H_{298}^0 = -994.8 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [11]		$S_{298}^0 = 397.1 \pm 10 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [11]
$C_p^0 = 119.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [11]		

AlCl₅Mn (g) MnAlCl ₅ (g)	Manganese Aluminium Chloride	AlCl₅Mn (g) MnAlCl ₅ (g)
$\Delta H^0_{298} = -992.3 \text{ kJ}\cdot\text{mol}^{-1}$ [283]		$S^0_{298} = 468 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [283]
AlCl₆K₃ (s) K ₃ AlCl ₆ (s)	Tripotassium Hexachloroaluminate	AlCl₆K₃ (s) K ₃ AlCl ₆ (s)
mp = 800 K (527 °C)		
$\Delta H^0_{298} = -2092 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 376.6 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 219 + 100.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
AlCl₆La (s) LaAlCl ₆ (s)	Lanthanum Aluminium Chloride	AlCl₆La (s) LaAlCl ₆ (s)
$\Delta H^0_{298} = -1787 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [26]		$S^0_{298} = 252.2 \pm 10.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [26]
$C_p^0 = [189.25] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
AlCl₆Na₃ (s) Na ₃ AlCl ₆ (s)	Trisodium Hexachloroaluminate	AlCl₆Na₃ (s) Na ₃ AlCl ₆ (s)
$\Delta H^0_{298} = -1979 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 347.3 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 244.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlCl₆V (g) VAICl ₆ (g)	Vanadium Aluminium Chloride	AlCl₆V (g) VAICl ₆ (g)
$\Delta H^0_{298} = -1121.9 \text{ kJ}\cdot\text{mol}^{-1}$ [134]		$S^0_{298} = 464.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [134]
AlCo (s) CoAl (s)	Aluminium Cobalt	AlCo (s) CoAl (s)
mp = 1921 K (1648 °C)		
$\Delta H^0_{298} = -110.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.68 + 12.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1921 K) [4]		

AlCo (s) CoAl (s)	Aluminium Cobalt	AlCo (s) CoAl (s)
$\Delta H_{1921}^0 = -18.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 66.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1921 K) [4]		$S_{1921}^0 = 154.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlCo (l) CoAl (l)	Aluminium Cobalt	AlCo (l) CoAl (l)
$\Delta H_{1921}^0 = 44.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 71.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1921 K) [4]		$S_{1921}^0 = 186.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlF (g)	Aluminium(I) Fluoride	AlF (g)
$\Delta H_{298}^0 = -265.7 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.28 + 0.44 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 215.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
AlFO (g) AlOF (g)	Aluminium Oxide Fluoride	AlFO (g) AlOF (g)
$\Delta H_{298}^0 = -581.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 58.66 + 2.05 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 237.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlF₂ (g)	Aluminium(II) Fluoride	AlF₂ (g)
$\Delta H_{298}^0 = -695 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 57.87 + 0.13 \cdot 10^{-3} \cdot T - 1.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 264.2 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
AlF₂O (g) AlOF ₂ (g)	Aluminium Oxide Difluoride	AlF₂O (g) AlOF ₂ (g)
$\Delta H_{298}^0 = -1108.8 \pm 30 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 63.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 292.7 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

AIF₃ (s)	Aluminium(III) Fluoride	AIF₃ (s)
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$\Delta H_{298}^0 = -1510.4 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 66.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
bp = 1548 K (1275 °C)	
$C_p^0 = 70.58 + 51.09 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 728 \text{ K}) [4]$	

AIF₃ (l)	Aluminium(III) Fluoride	AIF₃ (l)
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$\Delta H_{298}^0 = -1422.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 95.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
$C_p^0 = 97.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$	

AIF₃ (g)	Aluminium(III) Fluoride	AIF₃ (g)
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$\Delta H_{298}^0 = -1209.3 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 276.7 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
$C_p^0 = 79.16 + 2.26 \cdot 10^{-3} \cdot T - 1.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$	

AIF₄Li (g)	Lithium Tetrafluoroaluminate	AIF₄Li (g)
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$\Delta H_{298}^0 = -1854 \pm 12 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 326.5 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
$C_p^0 = 132.76 + 0.11 \cdot 10^{-3} \cdot T - 4.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2200 \text{ K}) [4]$	

AIF₄Na (g)	Sodium Tetrafluoroaluminate	AIF₄Na (g)
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$\Delta H_{298}^0 = -1841 \pm 12 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 344.9 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
$C_p^0 = 128.67 + 2.42 \cdot 10^{-3} \cdot T - 2.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$	

AIF₆K₃ (s)	Tripotassium Hexafluoroaluminate	AIF₆K₃ (s)
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$\Delta H_{298}^0 = -3326 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$	$S_{298}^0 = 284.5 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$
$C_p^0 = 238.61 + 41 \cdot 10^{-3} \cdot T - 2.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1247 \text{ K}) [4]$	
mp = 1247 K (974 °C)	

AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate alpha	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
mp = 1058 K (785 °C)		
$\Delta H_{298}^0 = -3380.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 187.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 205.94 + 109.83 \cdot 10^{-3} \cdot T - 3.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 748 K) [4]		
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate alpha	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{748}^0 = -3268.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{748}^0 = 411.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 282.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (748 K) [4]		
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate beta	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{748}^0 = -3266.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{748}^0 = 414.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 284.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (748 K) [4]		
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate beta	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{848}^0 = -3238 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{848}^0 = 449.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 284.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (848 K) [4]		
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate gamma	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{848}^0 = -3236.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{848}^0 = 451.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 294.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (848 K) [4]		
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate gamma	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{978}^0 = -3198.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{978}^0 = 493.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 294.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (978 K) [4]		

AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate delta	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{978}^0 = -3198 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 305.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (978 K) [4]		$S_{978}^0 = 493.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AIF₆Li₃ (s) Li ₃ AlF ₆ (s)	Trilithium Hexafluoroaluminate delta	AIF₆Li₃ (s) Li ₃ AlF ₆ (s)
$\Delta H_{1058}^0 = -3173.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 305.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1058 K) [4]		$S_{1058}^0 = 517.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AIF₆Li₃ (l) Li ₃ AlF ₆ (l)	Trilithium Hexafluoroaluminate	AIF₆Li₃ (l) Li ₃ AlF ₆ (l)
$\Delta H_{1058}^0 = -3087.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 359.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1058 K) [4]		$S_{1058}^0 = 599.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AIF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite alpha	AIF₆Na₃ (s) Na ₃ AlF ₆ (s)
mp = 1285 K (1012 °C) $\Delta H_{298}^0 = -3304 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 181 + 140 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 836 K) [4]		$S_{298}^0 = 238.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AIF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite alpha	AIF₆Na₃ (s) Na ₃ AlF ₆ (s)
$\Delta H_{836}^0 = -3163.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 298.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (836 K) [4]		$S_{836}^0 = 500.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AIF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite beta	AIF₆Na₃ (s) Na ₃ AlF ₆ (s)
$\Delta H_{836}^0 = -3155.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 294.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (836 K) [4]		$S_{836}^0 = 510.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

AlF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite beta	AlF₆Na₃ (s) Na ₃ AlF ₆ (s)
$\Delta H_{1153}^0 = -3061.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 294.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1153 K) [4]		$S_{1153}^0 = 605.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite gamma	AlF₆Na₃ (s) Na ₃ AlF ₆ (s)
$\Delta H_{1153}^0 = -3061.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 355.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1153 K) [4]		$S_{1153}^0 = 606 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlF₆Na₃ (s) Na ₃ AlF ₆ (s)	Cryolite gamma	AlF₆Na₃ (s) Na ₃ AlF ₆ (s)
$\Delta H_{1285}^0 = -3014.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 355.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1285 K) [4]		$S_{1285}^0 = 644.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlF₆Na₃ (l) Na ₃ AlF ₆ (l)	Cryolite	AlF₆Na₃ (l) Na ₃ AlF ₆ (l)
$\Delta H_{1285}^0 = -2904.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 395.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1285 K) [4]		$S_{1285}^0 = 730.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlH (g)	Aluminium Hydride	AlH (g)
$\Delta H_{298}^0 = 259.4 \pm 20 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.46 + 4.52 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		$S_{298}^0 = 187.9 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
AlHO (g) OAlH (g)	Aluminium Hydride Oxide	AlHO (g) OAlH (g)
$\Delta H_{298}^0 = 33.5 \pm 84 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 215.3 \pm 2.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

AlHO (g) AlOH (g)	Aluminium Hydroxide	AlHO (g) AlOH (g)
$\Delta H_{298}^0 = -179.9 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 31.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 216.4 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
AlHO₂ (s) AlOOH (s)	Aluminium Oxide Hydroxide Boehmite	AlHO₂ (s) AlOOH (s)
$\Delta H_{298}^0 = -985.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 60.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 46.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlHO₂ (s) AlOOH (s)	Aluminium Oxide Hydroxide Diaspore	AlHO₂ (s) AlOOH (s)
$\Delta H_{298}^0 = -1002.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 52.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 35.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AlHO₂ (g) OAlOH (g)	Aluminium Hydroxide Oxide	AlHO₂ (g) OAlOH (g)
$\Delta H_{298}^0 = -460 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 50.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 254.4 \pm 6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
AlH₂NaO₇Si₂ (s) NaAlSi ₂ O ₆ · H ₂ O (s)	Analcite Monohydrate	AlH₂NaO₇Si₂ (s) NaAlSi ₂ O ₆ · H ₂ O (s)
$\Delta H_{298}^0 = -3302.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 204.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 209.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlH₃ (s)	Aluminium(III) Hydride	AlH₃ (s)
$\Delta H_{298}^0 = -11.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 45.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

AlH₃O₃ (s) Al(OH) ₃ (s)	Aluminium(III) Hydroxide amorphous, Hydrargillite	AlH₃O₃ (s) Al(OH) ₃ (s)
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$$\Delta H_{298}^0 = -1276.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 36.19 + 190.79 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 400 \text{ K}) [4]$$

$$S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

AlH₄Li (s) LiAlH ₄ (s)	Lithium Tetrahydroaluminate	AlH₄Li (s) LiAlH ₄ (s)
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$$\Delta H_{298}^0 = -117.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 86.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 87.9 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

AlH₄NO₈S₂ (s) AlNH ₄ (SO ₄) ₂ (s)	Aluminium Ammonium Sulfate	AlH₄NO₈S₂ (s) AlNH ₄ (SO ₄) ₂ (s)
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$$\Delta H_{298}^0 = -2352 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$C_p^0 = 226 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

$$S_{298}^0 = 216 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

AlH₆KO₁₁S₂ (s) KAl(SO ₄) ₂ · 3H ₂ O (s)	Potassium Aluminium Sulfate Trihydrate	AlH₆KO₁₁S₂ (s) KAl(SO ₄) ₂ · 3H ₂ O (s)
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$$\Delta H_{298}^0 = -3381.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 314.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 314 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

AlH₂₄KO₂₀S₂ (s) KAl(SO ₄) ₂ · 12H ₂ O (s)	Potassium Aluminium Sulfate Dodecahydrate	AlH₂₄KO₂₀S₂ (s) KAl(SO ₄) ₂ · 12H ₂ O (s)
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$$\Delta H_{298}^0 = -6061.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 651.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 687.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

AlH₂₈NO₂₀S₂ (s) AlNH ₄ (SO ₄) ₂ · 12H ₂ O (s)	Aluminium Ammonium Sulfate Dodecahydrate	AlH₂₈NO₂₀S₂ (s) AlNH ₄ (SO ₄) ₂ · 12H ₂ O (s)
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$$\Delta H_{298}^0 = -5942 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$C_p^0 = 683 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

$$S_{298}^0 = 697 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

AlI (g)	Aluminium(I) Iodide	AlI (g)
$\Delta H_{298}^0 = 68 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 247.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.76 + 0.54 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlI₃ (s)	Aluminium(III) Iodide	AlI₃ (s)
mp = 464 K (191 °C)		bp = 647 K (374 °C)
$\Delta H_{298}^0 = -302.9 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 196.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70.63 + 94.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 464 K) [4]		
AlI₃ (s)	Aluminium(III) Iodide	AlI₃ (s)
$\Delta H_{464}^0 = -285.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{464}^0 = 243.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 114.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (464 K) [4]		
AlI₃ (l)	Aluminium(III) Iodide	AlI₃ (l)
$\Delta H_{464}^0 = -269.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{464}^0 = 277.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 121.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (464 K) [4]		
AlI₃ (l)	Aluminium(III) Iodide	AlI₃ (l)
$\Delta H_{298}^0 = -289.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 223.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlI₃ (g)	Aluminium(III) Iodide	AlI₃ (g)
$\Delta H_{298}^0 = -193.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 373.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.76 + 0.21 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlKO₄Si (s)	Kaliophilite	AlKO₄Si (s)
KAISiO ₄ (s)		KAISiO ₄ (s)
$\Delta H_{298}^0 = -2121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 133.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AlK₂O₆Si₂ (s) KAISi ₂ O ₆ (s)	Leucite	AlK₂O₆Si₂ (s) KAISi ₂ O ₆ (s)
$\Delta H_{298}^0 = -3034.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 164.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 200 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlK₂O₈Si₂ (s) KAl(SO ₄) ₂ (s)	Potassium Aluminium Sulfate	AlK₂O₈Si₂ (s) KAl(SO ₄) ₂ (s)
$\Delta H_{298}^0 = -2470.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 234.14 + 82.34 \cdot 10^{-3} \cdot T - 5.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]		$S_{298}^0 = 204.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)	Microcline	AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)
$\Delta H_{298}^0 = -3968.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 202.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 214.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)	Adularia	AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)
$\Delta H_{298}^0 = -3954.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 190.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 234.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)	Sanidine	AlK₂O₈Si₃ (s) KAISi ₃ O ₈ (s)
$\Delta H_{298}^0 = -3959.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 204.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 232.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AlLi (s)	Lithium Aluminium	AlLi (s)
mp = 973 K (700 °C) $\Delta H_{298}^0 = -49 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 46.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

AlLiO₂ (s)	Lithium Aluminium Oxide	AlLiO₂ (s)
LiAlO ₂ (s)		LiAlO ₂ (s)

$$\Delta H_{298}^0 = -1188.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 53.3 \pm 1.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 67.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

AlLiO₂ (l)	Lithium Aluminium Oxide	AlLiO₂ (l)
LiAlO ₂ (l)		LiAlO ₂ (l)

$$\Delta H_{298}^0 = -1107.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 67.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

AlLiO₄Si (s)	Eucryptite	AlLiO₄Si (s)
LiAlSiO ₄ (s)		LiAlSiO ₄ (s)

$$\Delta H_{298}^0 = -2124.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 103.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 113.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

AlLiO₆Si₂ (s)	Spodumene alpha	AlLiO₆Si₂ (s)
LiAlSi ₂ O ₆ (s)		LiAlSi ₂ O ₆ (s)

$$\Delta H_{298}^0 = -3054.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 129.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

AlLiO₆Si₂ (s)	Spodumene beta	AlLiO₆Si₂ (s)
LiAlSi ₂ O ₆ (s)		LiAlSi ₂ O ₆ (s)

$$\Delta H_{298}^0 = -3026.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 154.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 162.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

AlN (s)	Aluminium Nitride	AlN (s)
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$$\Delta H_{298}^0 = -318 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 20.1 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.82 + 1.85 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [4]$$

AlN (g)	Aluminium Nitride	AlN (g)
$\Delta H_{298}^0 = 523 \pm 38 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228.6 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlNaO₂ (s) NaAlO ₂ (s)	Sodium Aluminate	AlNaO₂ (s) NaAlO ₂ (s)
$\Delta H_{298}^0 = -1133.2 \pm 0.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 70.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlNaO₄Si (s) NaAlSiO ₄ (s)	Nepheline	AlNaO₄Si (s) NaAlSiO ₄ (s)
$\Delta H_{298}^0 = -2094.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 124.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 115.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlNaO₆Si₂ (s) NaAlSi ₂ O ₆ (s)	Jadeite	AlNaO₆Si₂ (s) NaAlSi ₂ O ₆ (s)
$\Delta H_{298}^0 = -3032.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 133.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 159.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlNaO₆Si₂ (s) NaAlSi ₂ O ₆ (s)	Analcite	AlNaO₆Si₂ (s) NaAlSi ₂ O ₆ (s)
$\Delta H_{298}^0 = -2985.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 175.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 164.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlNaO₈Si₃ (s) NaAlSi ₃ O ₈ (s)	Analbite	AlNaO₈Si₃ (s) NaAlSi ₃ O ₈ (s)
$\Delta H_{298}^0 = -3927.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 226.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 204.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AlNi (s)	Aluminium Nickel	AlNi (s)
mp = 1911 K (1638 °C)		
$\Delta H_{298}^0 = -118.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 54.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlNi₃ (s)	Aluminium Nickel	AlNi₃ (s)
$\Delta H_{298}^0 = -153.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 113.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 98.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlO (g)	Aluminium(II) Oxide	AlO (g)
$\Delta H_{298}^0 = 66.9 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 218.4 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 30.34 + 7.39 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlO₂ (g)	Aluminium Oxide	AlO₂ (g)
$\Delta H_{298}^0 = -86.2 \pm 32 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251.8 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
AlO₄P (s) AlPO ₄ (s)	Aluminium Phosphate alpha	AlO₄P (s) AlPO ₄ (s)
mp = 2273 K (2000 °C)		
$\Delta H_{298}^0 = -1733.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 90.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.46 + 139.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 853 K) [4]		
AlO₄P (s) AlPO ₄ (s)	Aluminium Phosphate alpha	AlO₄P (s) AlPO ₄ (s)
$\Delta H_{853}^0 = -1660 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{853}^0 = 222.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 170.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (853 K) [4]		

AIO₄P (s)	Aluminium Phosphate beta	AIO₄P (s)
AIPO ₄ (s)		AIPO ₄ (s)

$$\Delta H_{853}^0 = -1659 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{853}^0 = 223.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (853 \dots 978 \text{ K}) [4]$$

AIO₄P (s)	Aluminium Phosphate beta	AIO₄P (s)
AIPO ₄ (s)		AIPO ₄ (s)

$$\Delta H_{978}^0 = -1637.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{978}^0 = 246.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (978 \text{ K}) [4]$$

AIO₄P (s)	Aluminium Phosphate gamma	AIO₄P (s)
AIPO ₄ (s)		AIPO ₄ (s)

$$\Delta H_{978}^0 = -1636.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{978}^0 = 247.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (978 \text{ K}) [4]$$

AIP (s)	Aluminium Phosphide	AIP (s)
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$$\Delta H_{298}^0 = -164.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 47.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 40.17 + 6.28 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1800 \text{ K}) [4]$$

AIS (g)	Aluminium(II) Sulfide	AIS (g)
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$$\Delta H_{298}^0 = 238.5 \pm 8.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 230.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.84 + 0.7 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

AISb (s)	Aluminium Antimonide	AISb (s)
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$$\text{mp} = 1333 \text{ K} (1060 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -50.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 43.51 + 9.62 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1333 \text{ K}) [4]$$

AISb (s)	Aluminium Antimonide	AISb (s)
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$$\Delta H_{1333}^0 = 2.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1333}^0 = 140 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 56.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1333 \text{ K}) [4]$$

AlSb (l)	Aluminium Antimonide	AlSb (l)
$\Delta H_{1333}^0 = 85 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1333}^0 = 201.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1333 K) [4]		
AlSe (g)	Aluminium(II) Selenide	AlSe (g)
$\Delta H_{298}^0 = 221.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 243.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.25 + 0.08 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
AlTe (g)	Aluminium Telluride	AlTe (g)
$\Delta H_{298}^0 = 267.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 251.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AlTe₂ (g)	Aluminium Telluride	AlTe₂ (g)
$\Delta H_{298}^0 = 188.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [305.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
AlTi (s)	Aluminium Titanium	AlTi (s)
$\Delta H_{298}^0 = -75.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 52.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₂ (g)	Aluminium	Al₂ (g)
$\Delta H_{298}^0 = 487 \pm 3.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233.5 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 38.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Al₂Au (s) AuAl ₂ (s)	Aluminium Gold	Al₂Au (s) AuAl ₂ (s)
$\Delta H_{298}^0 = -126.4 \text{ kJ}\cdot\text{mol}^{-1}$ [3]		$S_{298}^0 = [104.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [235, 8]



mp = 2100 K (1827 °C)

$$\Delta H_{298}^0 = -2325.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 148.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 143.3 + 73.89 \cdot 10^{-3} \cdot T - 4.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 600 \text{ K}) [4]$$



mp = 2023 K (1750 °C)

$$\Delta H_{298}^0 = -3508.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

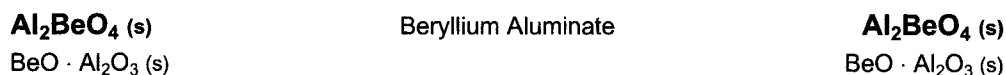
$$S_{298}^0 = 301.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 266.52 + 30.84 \cdot 10^{-3} \cdot T - 5.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2023 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -1762.6 \text{ kJ}\cdot\text{mol}^{-1} [132]$$

$$S_{298}^0 = 586.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [132]$$

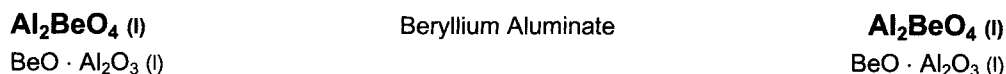


mp = 2146 K (1873 °C)

$$\Delta H_{298}^0 = -2300.8 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 66.3 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

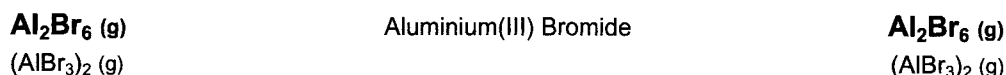
$$C_p^0 = 151.98 + 25.97 \cdot 10^{-3} \cdot T - 4.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -2163.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 126.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$



$$\Delta H_{298}^0 = -937.2 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 547.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 182 + 0.47 \cdot 10^{-3} \cdot T - 1.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Al₂Ca (s)	Calcium Aluminium	Al₂Ca (s)
CaAl ₂ (s)		CaAl ₂ (s)

mp = 1352 K (1079 °C)

 $\Delta H^0_{298} = -219.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S^0_{298} = 85.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 82.84 + 7.95 \cdot 10^{-3} \cdot T - 1.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1352 K) [4]

Al₂Ca (s)	Calcium Aluminium	Al₂Ca (s)
CaAl ₂ (s)		CaAl ₂ (s)

 $\Delta H^0_{1352} = -128.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1352} = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Al₂Ca (l)	Calcium Aluminium	Al₂Ca (l)
CaAl ₂ (l)		CaAl ₂ (l)

 $\Delta H^0_{1352} = -75.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1352} = 252 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 94.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1352 K) [4]

Al₂CaCl₈ (g)	Calcium Aluminium Chloride	Al₂CaCl₈ (g)
CaAl ₂ Cl ₈ (g)		CaAl ₂ Cl ₈ (g)

 $\Delta H^0_{298} = -2047.6 \text{ kJ}\cdot\text{mol}^{-1}$ [132] $S^0_{298} = 615.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]

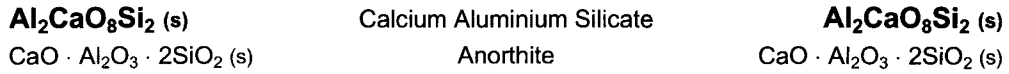
Al₂CaO₄ (s)	Calcium Aluminate	Al₂CaO₄ (s)
CaO · Al ₂ O ₃ (s)		CaO · Al ₂ O ₃ (s)

mp = 1873 K (1600 °C)

 $\Delta H^0_{298} = -2326.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S^0_{298} = 114.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 150.62 + 24.94 \cdot 10^{-3} \cdot T - 3.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1873 K) [4]

Al₂CaO₆Si (s)	Calcium Aluminium Silicate Pyroxene	Al₂CaO₆Si (s)
CaO · Al ₂ O ₃ · SiO ₂ (s)		CaO · Al ₂ O ₃ · SiO ₂ (s)

 $\Delta H^0_{298} = -3293.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{298} = 144.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 233.22 + 21.13 \cdot 10^{-3} \cdot T - 7.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1700 K) [4]

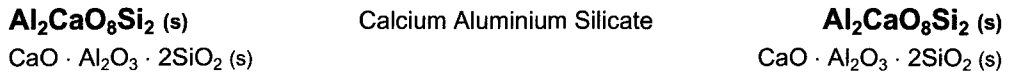


mp = 1826 K (1553 °C)

$$\Delta H_{298}^0 = -4223.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 202.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 297.02 + 43.39 \cdot 10^{-3} \cdot T - 13.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1826 K) [4]}$$



$$\Delta H_{1826}^0 = -3737.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1826}^0 = 733 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$



$$\Delta H_{1826}^0 = -3570.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1826}^0 = 824.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

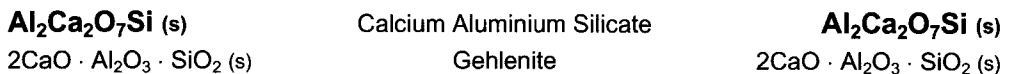
$$C_p^0 = 397.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1826 K) [4]}$$



$$\Delta H_{298}^0 = -2958 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 127.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 164.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$



$$\Delta H_{298}^0 = -3989.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 275.48 + 27.91 \cdot 10^{-3} \cdot T - 7.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1863 K) [4]}$$



mp = 1808 K (1535 °C)

$$\Delta H_{298}^0 = -3587.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 205.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 260.58 + 19.16 \cdot 10^{-3} \cdot T - 5.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1808 K) [4]}$$

Al₂Ca₃O₁₂Si₃ (s) 3CaO · Al ₂ O ₃ · 3SiO ₂ (s)	Calcium Aluminium Silicate Grossular	Al₂Ca₃O₁₂Si₃ (s) 3CaO · Al ₂ O ₃ · 3SiO ₂ (s)
$\Delta H_{298}^0 = -6646.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 241.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 456.31 + 49.2 \cdot 10^{-3} \cdot T - 13.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1700 K) [4]		
Al₂CdCl₈ (g) CdAl ₂ Cl ₈ (g)	Cadmium Aluminium Chloride	Al₂CdCl₈ (g) CdAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1641.6 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 627.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂CdO₄ (s) CdO · Al ₂ O ₃ (s)	Cadmium Aluminate	Al₂CdO₄ (s) CdO · Al ₂ O ₃ (s)
$\Delta H_{298}^0 = -1919 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 125.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 160.04 + 23.85 \cdot 10^{-3} \cdot T - 3.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		
Al₂Ce (s)	Aluminium Cerium	Al₂Ce (s)
$\Delta H_{298}^0 = -163.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 108.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 74.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₂Ce₂O₆ (s) Ce ₂ O ₃ · Al ₂ O ₃ (s)	Cerium Aluminate	Al₂Ce₂O₆ (s) Ce ₂ O ₃ · Al ₂ O ₃ (s)
mp = 2300 K (2027 °C)		
$\Delta H_{298}^0 = -3601.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 190.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 214.39 + 59.16 \cdot 10^{-3} \cdot T - 3.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1253 K) [4]		
Al₂Cl₆ (g) (AlCl ₃) ₂ (g)	Aluminium(III) Chloride	Al₂Cl₆ (g) (AlCl ₃) ₂ (g)
$\Delta H_{298}^0 = -1295.7 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 475 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 180.92 + 1.05 \cdot 10^{-3} \cdot T - 2.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Al₂Cl₈Co (g) CoAl ₂ Cl ₈ (g)	Cobalt Aluminium Chloride	Al₂Cl₈Co (g) CoAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1560.5 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 634.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Cr (g) CrAl ₂ Cl ₈ (g)	Chromium Aluminium Chloride	Al₂Cl₈Cr (g) CrAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1653 \text{ kJ}\cdot\text{mol}^{-1}$ [133]		$S_{298}^0 = 634.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [133]
Al₂Cl₈Cu (g) CuAl ₂ Cl ₈ (g)	Copper Aluminium Chloride	Al₂Cl₈Cu (g) CuAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1475.6 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 634.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Fe (g) FeAl ₂ Cl ₈ (g)	Iron Aluminium Chloride	Al₂Cl₈Fe (g) FeAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1585 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 648.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Mg (g) MgAl ₂ Cl ₈ (g)	Magnesium Aluminium Chloride	Al₂Cl₈Mg (g) MgAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1889.7 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 610.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Mn (g) MnAl ₂ Cl ₈ (g)	Manganese Aluminium Chloride	Al₂Cl₈Mn (g) MnAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1723.4 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 647.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Ni (g) NiAl ₂ Cl ₈ (g)	Nickel Aluminium Chloride	Al₂Cl₈Ni (g) NiAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1543.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 611 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 251.38 + 8.58 \cdot 10^{-3} \cdot T - 2.52 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Al₂Cl₈Pd (g) PdAl ₂ Cl ₈ (g)	Palladium Aluminium Chloride	Al₂Cl₈Pd (g) PdAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1439.6 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 618.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Pt (g) PtAl ₂ Cl ₈ (g)	Platinum Aluminium Chloride	Al₂Cl₈Pt (g) PtAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1378.7 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 628.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₈Zn (g) ZnAl ₂ Cl ₈ (g)	Zinc Aluminium Chloride	Al₂Cl₈Zn (g) ZnAl ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1682.3 \text{ kJ}\cdot\text{mol}^{-1}$ [132]		$S_{298}^0 = 621.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [132]
Al₂Cl₉Dy (g) DyAl ₂ Cl ₉ (g)	Dysprosium Aluminium Chloride	Al₂Cl₉Dy (g) DyAl ₂ Cl ₉ (g)
$\Delta H_{298}^0 = -2202 \text{ kJ}\cdot\text{mol}^{-1}$ [156]		$S_{298}^0 = 693.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [156]
Al₂Cl₉K₃ (s) 3KCl · 2AlCl ₃ (s)	Potassium Aluminium Chloride	Al₂Cl₉K₃ (s) 3KCl · 2AlCl ₃ (s)
$\Delta H_{298}^0 = -2860 \pm 12 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 337.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 468.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Al₂Cl₁₀U (g) UAl ₂ Cl ₁₀ (g)	Uranium Aluminium Chloride	Al₂Cl₁₀U (g) UAl ₂ Cl ₁₀ (g)
$\Delta H_{298}^0 = -2268.5 \text{ kJ}\cdot\text{mol}^{-1}$ [169, 8]		$S_{298}^0 = 714 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [169, 8]
Al₂CoO₄ (s) CoO · Al ₂ O ₃ (s)	Cobalt Aluminate	Al₂CoO₄ (s) CoO · Al ₂ O ₃ (s)
$\Delta H_{298}^0 = -1947.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 165.69 + 18.83 \cdot 10^{-3} \cdot T - 3.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		$S_{298}^0 = 99.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Al₂CuO₄ (s)	Copper(II) Aluminate	Al₂CuO₄ (s)
CuO · Al ₂ O ₃ (s)		CuO · Al ₂ O ₃ (s)

$$\Delta H_{298}^0 = -1822.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 155.65 + 34.1 \cdot 10^{-3} \cdot T - 3.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1550 \text{ K}) [4]$$

Al₂Cu₂O₄ (s)	Copper(I) Aluminate	Al₂Cu₂O₄ (s)
Cu ₂ O · Al ₂ O ₃ (s)		Cu ₂ O · Al ₂ O ₃ (s)

$$\Delta H_{298}^0 = -1870.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 133.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 175.69 + 33.69 \cdot 10^{-3} \cdot T - 3.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1400 \text{ K}) [4]$$

Al₂F₆ (g)	Aluminium(III) Fluoride	Al₂F₆ (g)
(AlF ₃) ₂ (g)		(AlF ₃) ₂ (g)

$$\Delta H_{298}^0 = -2633.6 \pm 16 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 387.3 \pm 12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 182.05 + 0.33 \cdot 10^{-3} \cdot T - 6.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -21.21 \cdot 10^3 \cdot T^{-1} - 3.65 \cdot \lg(T) + 23.76 (1000 \dots 1548 \text{ K}) [4]$$

{Reaction: evaporation of AlF₃(s)}

Al₂F₈Na₂ (g)	Sodium Tetrafluoroaluminate	Al₂F₈Na₂ (g)
(NaAlF ₄) ₂ (g)		(NaAlF ₄) ₂ (g)

$$\Delta H_{298}^0 = -3894.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 525.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 273.05 + 5.1 \cdot 10^{-3} \cdot T - 4.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -19.05 \cdot 10^3 \cdot T^{-1} - 6.91 \cdot \lg(T) + 36.03 (800 \dots 968 \text{ K}) [4]$$

{Reaction: evaporation of NaAlF₄(s)}

Al₂FeO₄ (s)	Iron Aluminate	Al₂FeO₄ (s)
FeO · Al ₂ O ₃ (s)		FeO · Al ₂ O ₃ (s)

$$\text{mp} = 2070 \text{ K} (1797 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1969.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 155.31 + 26.15 \cdot 10^{-3} \cdot T - 3.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2070 \text{ K}) [4]$$

Al₂H₂O₄ (s) Al ₂ O ₃ · H ₂ O (s)	Diaspore Monohydrate	Al₂H₂O₄ (s) Al ₂ O ₃ · H ₂ O (s)
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$$\Delta H_{298}^0 = -1999.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 106.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 70.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Al₂H₄O₉Si₂ (s) Al ₂ O ₃ · 2SiO ₂ · 2H ₂ O (s)	Kaolinite Dihydrate	Al₂H₄O₉Si₂ (s) Al ₂ O ₃ · 2SiO ₂ · 2H ₂ O (s)
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$$\Delta H_{298}^0 = -4095.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 274.01 + 138.78 \cdot 10^{-3} \cdot T - 6.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 861 \text{ K}) [4]$$

$$S_{298}^0 = 202.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Al₂H₆O₆ (s) Al ₂ O ₃ · 3H ₂ O (s)	Gibbsite Trihydrate	Al₂H₆O₆ (s) Al ₂ O ₃ · 3H ₂ O (s)
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$$\Delta H_{298}^0 = -2586.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 72.38 + 381.58 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 425 \text{ K}) [3]$$

$$S_{298}^0 = 136.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Al₂I₆ (g) (AlI ₃) ₂ (g)	Aluminium(III) Iodide	Al₂I₆ (g) (AlI ₃) ₂ (g)
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$$\Delta H_{298}^0 = -489.5 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 182.42 + 0.26 \cdot 10^{-3} \cdot T - 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 597.4 \pm 1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Al₂K₂O₈Si₂ (s) K ₂ O · Al ₂ O ₃ · 2SiO ₂ (s)	Kaliophilite	Al₂K₂O₈Si₂ (s) K ₂ O · Al ₂ O ₃ · 2SiO ₂ (s)
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$$\Delta H_{298}^0 = -4215.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 359.95 + 48.49 \cdot 10^{-3} \cdot T - 11.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

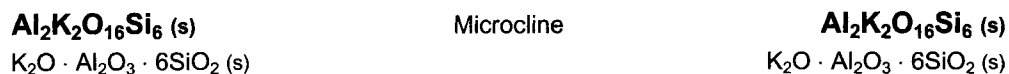
$$S_{298}^0 = 266.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Al₂K₂O₁₂Si₄ (s) K ₂ O · Al ₂ O ₃ · 4SiO ₂ (s)	Leucite	Al₂K₂O₁₂Si₄ (s) K ₂ O · Al ₂ O ₃ · 4SiO ₂ (s)
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$$\Delta H_{298}^0 = -6067.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 490.7 + 68.83 \cdot 10^{-3} \cdot T - 16.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

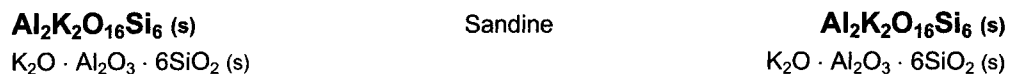
$$S_{298}^0 = 368.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H_{298}^0 = -7912.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 439.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

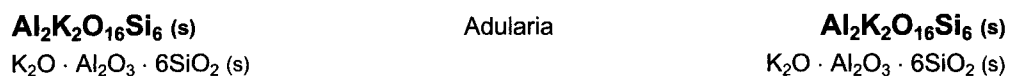
$$C_p^0 = 286.06 + 38.66 \cdot 10^{-3} \cdot T - 9.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1400 K) [4]}$$



$$\Delta H_{298}^0 = -7901.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 476.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

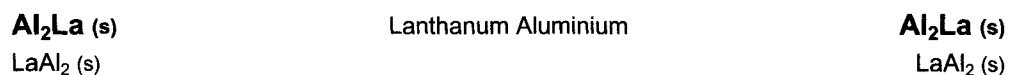
$$C_p^0 = 286.06 + 38.66 \cdot 10^{-3} \cdot T - 9.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1400 K) [4]}$$



$$\Delta H_{298}^0 = -7906.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 468.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 286.06 + 38.66 \cdot 10^{-3} \cdot T - 9.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1400 K) [4]}$$

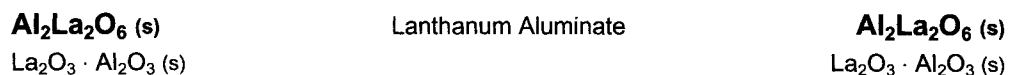


$$\text{mp} = 1678 \text{ K (1405 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -151 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 69.45 + 14.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1678 K) [4]}$$

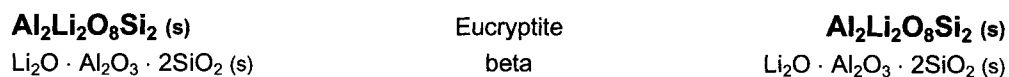


$$\text{mp} = 2373 \text{ K (2100 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -3587.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 170.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 223.59 + 30.96 \cdot 10^{-3} \cdot T - 4.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1500 K) [4]}$$

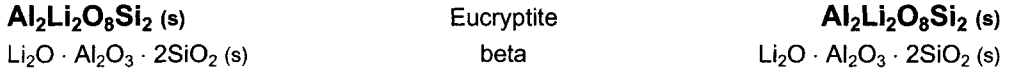


$$\text{mp} = 1673 \text{ K (1400 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -4230 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

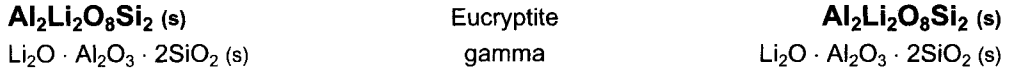
$$S_{298}^0 = 207.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 308.53 + 56.9 \cdot 10^{-3} \cdot T - 8.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1300 K) [4]}$$



$$\Delta H^0_{1300} = -3898.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

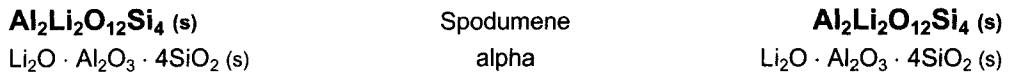
$$S^0_{1300} = 672 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H^0_{1300} = -3896.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{1300} = 673 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

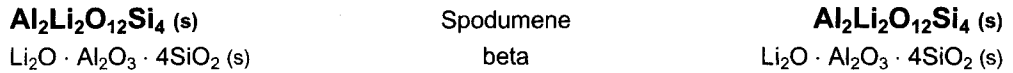
$$C_p^0 = 255.22 + 100.42 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1300 \dots 1673 \text{ K}) [4]$$



$$\Delta H^0_{298} = -6092.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{298} = 258.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 370.95 + 137.57 \cdot 10^{-3} \cdot T - 8.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1150 \text{ K}) [4]$$

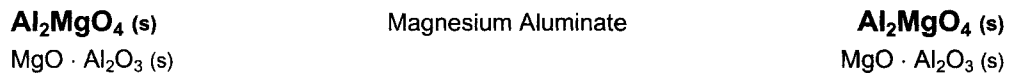


$$\text{mp} = 1696 \text{ K} (1423 \text{ }^\circ\text{C})$$

$$\Delta H^0_{298} = -6036.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{298} = 308.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 414.38 + 91.21 \cdot 10^{-3} \cdot T - 10.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1696 \text{ K}) [4]$$

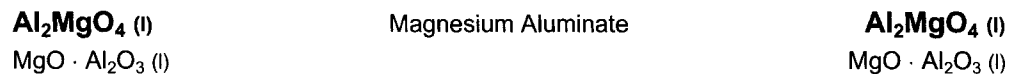


$$\text{mp} = 2408 \text{ K} (2135 \text{ }^\circ\text{C})$$

$$\Delta H^0_{298} = -2299.1 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S^0_{298} = 88.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 146.78 + 35.56 \cdot 10^{-3} \cdot T - 3.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



$$\Delta H^0_{298} = -2106.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S^0_{298} = 168.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 116.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Al₂MnO₄ (s)	Manganese Aluminate	Al₂MnO₄ (s)
MnO · Al ₂ O ₃ (s)		MnO · Al ₂ O ₃ (s)

mp = 2123 K (1850 °C)

$$\Delta H_{298}^0 = -2100.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 103.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 153.13 + 25.94 \cdot 10^{-3} \cdot T - 3.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Al₂Na₂O₄ (s)	Sodium Aluminate alpha	Al₂Na₂O₄ (s)
Na ₂ O · Al ₂ O ₃ (s)		Na ₂ O · Al ₂ O ₃ (s)

$$\Delta H_{298}^0 = -2266.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 141.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 178.32 + 30.54 \cdot 10^{-3} \cdot T - 3.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 740 K) [4]}$$

Al₂Na₂O₄ (s)	Sodium Aluminate alpha	Al₂Na₂O₄ (s)
Na ₂ O · Al ₂ O ₃ (s)		Na ₂ O · Al ₂ O ₃ (s)

$$\Delta H_{740}^0 = -2187.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{740}^0 = 300.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Al₂Na₂O₄ (s)	Sodium Aluminate beta	Al₂Na₂O₄ (s)
Na ₂ O · Al ₂ O ₃ (s)		Na ₂ O · Al ₂ O ₃ (s)

$$\Delta H_{740}^0 = -2184.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{740}^0 = 303.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 178.32 + 30.54 \cdot 10^{-3} \cdot T - 3.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (740 ... 1900 K) [4]}$$

Al₂Na₂O₁₂Si₄ (s)	Jadeite	Al₂Na₂O₁₂Si₄ (s)
Na ₂ O · Al ₂ O ₃ · 4SiO ₂ (s)		Na ₂ O · Al ₂ O ₃ · 4SiO ₂ (s)

$$\Delta H_{298}^0 = -6039.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 266.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 403 + 95.56 \cdot 10^{-3} \cdot T - 9.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1200 K) [4]}$$

Al₂Na₂O₁₆Si₆ (s)	Albite alpha	Al₂Na₂O₁₆Si₆ (s)
Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)		Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)

mp = 1391 K (1118 °C)

$$\Delta H_{298}^0 = -7841.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 420.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 516.31 + 116.32 \cdot 10^{-3} \cdot T - 12.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 573 K) [4]}$$

Al₂Na₂O₁₆Si₆ (s) Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)	Albite alpha	Al₂Na₂O₁₆Si₆ (s) Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)
$\Delta H_{573}^0 = -7705.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{573}^0 = 737.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Al₂Na₂O₁₆Si₆ (s) Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)	Albite beta	Al₂Na₂O₁₆Si₆ (s) Na ₂ O · Al ₂ O ₃ · 6SiO ₂ (s)
$\Delta H_{573}^0 = -7681.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{573}^0 = 779.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 565.68 + 81.67 \cdot 10^{-3} \cdot T - 17.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (573 ... 1391 K) [4]		

Al₂NiO₄ (s) NiO · Al ₂ O ₃ (s)	Nickel Aluminate	Al₂NiO₄ (s) NiO · Al ₂ O ₃ (s)
mp = 2383 K (2110 °C)		
$\Delta H_{298}^0 = -1921.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 98.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 159.2 + 23.35 \cdot 10^{-3} \cdot T - 3.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Al₂O (g)	Aluminium(I) Oxide	Al₂O (g)
$\Delta H_{298}^0 = -145.2 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 252.3 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 59.97 + 1.24 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Al₂O₂ (g) (AlO) ₂ (g)	Aluminium(II) Oxide	Al₂O₂ (g) (AlO) ₂ (g)
$\Delta H_{298}^0 = -394.6 \pm 32 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 281 \pm 12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.58 + 0.83 \cdot 10^{-3} \cdot T - 1.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Al₂O₃ (s)	Aluminium(III) Oxide alpha, Corundum	Al₂O₃ (s)
mp = 2327 K (2054 °C)		
$\Delta H_{298}^0 = -1675.7 \pm 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 51 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 117.49 + 10.38 \cdot 10^{-3} \cdot T - 3.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2327 K) [4]		

Al₂O₃ (s)	Aluminium(III) Oxide gamma	Al₂O₃ (s)
$\Delta H_{298}^0 = -1656.9 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 82.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 52.3 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Al₂O₃ (s)	Aluminium(III) Oxide delta	Al₂O₃ (s)
$\Delta H_{298}^0 = -1666.5 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 81.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 50.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Al₂O₃ (s)	Aluminium(III) Oxide kappa	Al₂O₃ (s)
$\Delta H_{298}^0 = -1662.3 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 53.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Al₂O₃ (l)	Aluminium(III) Oxide	Al₂O₃ (l)
$\Delta H_{298}^0 = -1620.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 67.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Al₂O₄Sr (s) SrO · Al ₂ O ₃ (s)	Strontium Aluminate alpha	Al₂O₄Sr (s) SrO · Al ₂ O ₃ (s)
mp = 2063 K (1790 °C) $\Delta H_{298}^0 = -2338.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 177.19 + 4.94 \cdot 10^{-3} \cdot T - 5.3 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 932 K) [4]		$S_{298}^0 = 108.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Al₂O₄Sr (s) SrO · Al ₂ O ₃ (s)	Strontium Aluminate alpha	Al₂O₄Sr (s) SrO · Al ₂ O ₃ (s)
$\Delta H_{932}^0 = -2236.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{932}^0 = 287.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Al₂O₄Sr (s)	Strontium Aluminate	Al₂O₄Sr (s)
SrO · Al ₂ O ₃ (s)	beta	SrO · Al ₂ O ₃ (s)

$$\Delta H_{932}^0 = -2234.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{932}^0 = 289.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 146.11 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (932 \dots 2063 \text{ K}) [4]$$

Al₂O₄Zn (s)	Zinc Aluminate	Al₂O₄Zn (s)
ZnO · Al ₂ O ₃ (s)		ZnO · Al ₂ O ₃ (s)

$$\Delta H_{298}^0 = -2071.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 166.52 + 15.48 \cdot 10^{-3} \cdot T - 4.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1300 \text{ K}) [4]$$

Al₂O₅Si (s)	Aluminium Silicate	Al₂O₅Si (s)
Al ₂ O ₃ · SiO ₂ (s)	Andalusite	Al ₂ O ₃ · SiO ₂ (s)

$$\Delta H_{298}^0 = -2590.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 93.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 161.84 + 35.17 \cdot 10^{-3} \cdot T - 4.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1800 \text{ K}) [4]$$

Al₂O₅Si (s)	Aluminium Silicate	Al₂O₅Si (s)
Al ₂ O ₃ · SiO ₂ (s)	Kyanite	Al ₂ O ₃ · SiO ₂ (s)

$$\Delta H_{298}^0 = -2594.3 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 83.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 183.77 + 17.1 \cdot 10^{-3} \cdot T - 6.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1600 \text{ K}) [4]$$

Al₂O₅Si (s)	Aluminium Silicate	Al₂O₅Si (s)
Al ₂ O ₃ · SiO ₂ (s)	Sillimanite	Al ₂ O ₃ · SiO ₂ (s)

$$\Delta H_{298}^0 = -2589.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 96.2 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 182.05 + 15.44 \cdot 10^{-3} \cdot T - 5.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1800 \text{ K}) [4]$$

Al₂O₅Ti (s)	Aluminium Titanate	Al₂O₅Ti (s)
Al ₂ O ₃ · TiO ₂ (s)		Al ₂ O ₃ · TiO ₂ (s)

$$\Delta H_{298}^0 = -2628.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 109.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 182.55 + 22.18 \cdot 10^{-3} \cdot T - 4.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2133 \text{ K}) [4]$$

Al₂O₇Si₂ (s) Al ₂ O ₃ · 2SiO ₂ (s)	Aluminium Silicate Metakaolinite	Al₂O₇Si₂ (s) Al ₂ O ₃ · 2SiO ₂ (s)
$\Delta H_{298}^0 = -3341.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 136.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 229.49 + 36.82 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1800 K) [4]		
Al₂O₁₂S₃ (s) Al ₂ (SO ₄) ₃ (s)	Aluminium Sulfate	Al₂O₁₂S₃ (s) Al ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -3440.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 239.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 366.31 + 62.59 \cdot 10^{-3} \cdot T - 11.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 989 K) [4]		
Al₂S (g)	Aluminium Sulfide	Al₂S (g)
$\Delta H_{298}^0 = 230.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [275.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Al₂S₂ (g)	Aluminium Sulfide	Al₂S₂ (g)
$\Delta H_{298}^0 = 66.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [285.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Al₂S₃ (s)	Aluminium(III) Sulfide	Al₂S₃ (s)
mp = 1370 K (1097 °C)		
$\Delta H_{298}^0 = -723.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.17 + 36.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1370 K) [4]		
Al₂S₃ (s)	Aluminium(III) Sulfide	Al₂S₃ (s)
$\Delta H_{1370}^0 = -581.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1370}^0 = 307.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Al₂S₃ (l)	Aluminium(III) Sulfide	Al₂S₃ (l)
$\Delta H_{1370}^0 = -525.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1370}^0 = 348.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1370 K) [4]		

Al₂Se (g)	Aluminium Selenide	Al₂Se (g)
$\Delta H_{298}^0 = 100.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 287.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 59.97 + 1.24 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -2000 K) [4]		
Al₂Se₂ (g)	Aluminium Selenide	Al₂Se₂ (g)
$\Delta H_{298}^0 = 75.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 308.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 66.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₂Se₃ (s)	Aluminium(III) Selenide	Al₂Se₃ (s)
mp = 1220 K (947 °C)		
$\Delta H_{298}^0 = -566.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 107.74 + 34.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1220 K) [4]		
Al₂Se₃ (s)	Aluminium(III) Selenide	Al₂Se₃ (s)
$\Delta H_{1220}^0 = -443.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1220}^0 = 338.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Al₂Se₃ (l)	Aluminium(III) Selenide	Al₂Se₃ (l)
$\Delta H_{1220}^0 = -437.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1220}^0 = 343.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1220 K) [4]		
Al₂Te (g)	Aluminium Telluride	Al₂Te (g)
$\Delta H_{298}^0 = 315.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [298.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Al₂Te₂ (g)	Aluminium Telluride	Al₂Te₂ (g)
$\Delta H_{298}^0 = 188.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [327.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Al₂Te₃ (s)	Aluminium(III) Telluride	Al₂Te₃ (s)
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mp = 1163 K (890 °C)

 $\Delta H_{298}^0 = -318.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 110.88 + 34.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1163 K) [4]

Al₂Te₃ (s)	Aluminium(III) Telluride	Al₂Te₃ (s)
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 $\Delta H_{1163}^0 = -201.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1163}^0 = 369.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Al₂Te₃ (l)	Aluminium(III) Telluride	Al₂Te₃ (l)
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 $\Delta H_{1163}^0 = -151.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1163}^0 = 412.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 176.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1163 K) [4]

Al₂U (s)	Aluminium Uranium	Al₂U (s)
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mp = 1893 K (1620 °C)

 $\Delta H_{298}^0 = -92 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 78.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Al₃Br₁₂Y (g)	Yttrium Aluminium Bromide	Al₃Br₁₂Y (g)
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YAl₃Br₁₂ (g)YAl₃Br₁₂ (g) $\Delta H_{298}^0 = -2027.5 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [24] $S_{298}^0 = 1213.4 \pm 31.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [25]

Al₃CeCl₁₂ (g)	Cerium Aluminium Chloride	Al₃CeCl₁₂ (g)
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CeAl₃Cl₁₂ (g)CeAl₃Cl₁₂ (g) $\Delta H_{298}^0 = -2953.5 \text{ kJ}\cdot\text{mol}^{-1}$ [135] $S_{298}^0 = 867.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]

Al₃Cl₁₁Mn (g)	Manganese Aluminium Chloride	Al₃Cl₁₁Mn (g)
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MnAl₃Cl₁₁ (g)MnAl₃Cl₁₁ (g) $\Delta H_{298}^0 = -2391.5 \text{ kJ}\cdot\text{mol}^{-1}$ [283] $S_{298}^0 = 857.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [283]

Al₃Cl₁₁Ni (g) NiAl ₃ Cl ₁₁ (g)	Nickel Aluminium Chloride	Al₃Cl₁₁Ni (g) NiAl ₃ Cl ₁₁ (g)
$\Delta H^0_{298} = -2226.3 \text{ kJ}\cdot\text{mol}^{-1}$ [170, 8]		$S^0_{298} = 785.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [170, 8]
Al₃Cl₁₂Dy (g) DyAl ₃ Cl ₁₂ (g)	Dysprosium Aluminium Chloride	Al₃Cl₁₂Dy (g) DyAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2925.3 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S^0_{298} = 852.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Er (g) ErAl ₃ Cl ₁₂ (g)	Erbium Aluminium Chloride	Al₃Cl₁₂Er (g) ErAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2923.3 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S^0_{298} = 849.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Eu (g) EuAl ₃ Cl ₁₂ (g)	Europium Aluminium Chloride	Al₃Cl₁₂Eu (g) EuAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2856.1 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S^0_{298} = 850.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Gd (g) GdAl ₃ Cl ₁₂ (g)	Gadolinium Aluminium Chloride	Al₃Cl₁₂Gd (g) GdAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2922.9 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S^0_{298} = 866.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Ho (g) HoAl ₃ Cl ₁₂ (g)	Holmium Aluminium Chloride	Al₃Cl₁₂Ho (g) HoAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2932.9 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S^0_{298} = 851.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂La (g) LaAl ₃ Cl ₁₂ (g)	Lanthanum Aluminium Chloride	Al₃Cl₁₂La (g) LaAl ₃ Cl ₁₂ (g)
$\Delta H^0_{298} = -2979 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [26]		$S^0_{298} = 857.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [26]

Al₃Cl₁₂Lu (g) LuAl ₃ Cl ₁₂ (g)	Lutetium Aluminium Chloride	Al₃Cl₁₂Lu (g) LuAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2904 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = [853.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135, 267]
Al₃Cl₁₂Nd (s) NdAl ₃ Cl ₁₂ (s)	Neodymium Aluminium Chloride	Al₃Cl₁₂Nd (s) NdAl ₃ Cl ₁₂ (s)
$\Delta H_{298}^0 = -3136.3 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [27]		$S_{298}^0 = 494.5 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [27]
$C_p^0 = [372.47] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Al₃Cl₁₂Nd (g) NdAl ₃ Cl ₁₂ (g)	Neodymium Aluminium Chloride	Al₃Cl₁₂Nd (g) NdAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2935.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [27]		$S_{298}^0 = 899.6 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [27]
Al₃Cl₁₂Pr (g) PrAl ₃ Cl ₁₂ (g)	Praseodymium Aluminium Chloride	Al₃Cl₁₂Pr (g) PrAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2962.3 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = 867 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Sm (g) SmAl ₃ Cl ₁₂ (g)	Samarium Aluminium Chloride	Al₃Cl₁₂Sm (g) SmAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2942.2 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = 855.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Tb (g) TbAl ₃ Cl ₁₂ (g)	Terbium Aluminium Chloride	Al₃Cl₁₂Tb (g) TbAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2919.5 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = 862.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃Cl₁₂Tm (g) TmAl ₃ Cl ₁₂ (g)	Thulium Aluminium Chloride	Al₃Cl₁₂Tm (g) TmAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2913.7 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = 854.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]

Al₃Cl₁₂Y (s) YAl ₃ Cl ₁₂ (s)	Yttrium Aluminium Chloride	Al₃Cl₁₂Y (s) YAl ₃ Cl ₁₂ (s)
$\Delta H_{298}^0 = -3095.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [23]		$S_{298}^0 = 569.4 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [23]
$C_p^0 = [365.40] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Al₃Cl₁₂Yb (g) YbAl ₃ Cl ₁₂ (g)	Ytterbium Aluminium Chloride	Al₃Cl₁₂Yb (g) YbAl ₃ Cl ₁₂ (g)
$\Delta H_{298}^0 = -2882 \text{ kJ}\cdot\text{mol}^{-1}$ [135]		$S_{298}^0 = 836.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [135]
Al₃F₁₄Na₅ (s) 5NaF · 3AlF ₃ (s)	Chiolite	Al₃F₁₄Na₅ (s) 5NaF · 3AlF ₃ (s)
mp = 1007 K (734 °C)		
$\Delta H_{298}^0 = -7581.4 \pm 16 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 483.5 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 377 + 285 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1007 K) [4]		
Al₃F₁₄Na₅ (l) 5NaF · 3AlF ₃ (l)	Chiolite	Al₃F₁₄Na₅ (l) 5NaF · 3AlF ₃ (l)
$\Delta H_{298}^0 = -7497.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 532.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 454.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Al₃H₂KO₁₂Si₃ (s) KAl ₃ Si ₃ O ₁₀ (OH) ₂ (s)	Muscovite	Al₃H₂KO₁₂Si₃ (s) KAl ₃ Si ₃ O ₁₀ (OH) ₂ (s)
$\Delta H_{298}^0 = -5984.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 306.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 318.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₃Ni (s)	Aluminium Nickel	Al₃Ni (s)
$\Delta H_{298}^0 = -150.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 110.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 94.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Al₃Ni₂ (s)	Aluminium Nickel	Al₃Ni₂ (s)
$\Delta H_{298}^0 = -282.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 116.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₃Th (s)	Aluminium Thorium	Al₃Th (s)
$\Delta H_{298}^0 = -111.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 104.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₃Ti (s)	Aluminium Titanium	Al₃Ti (s)
$\Delta H_{298}^0 = -146.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 92.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 98.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₃U (s)	Aluminium Uranium	Al₃U (s)
$\Delta H_{298}^0 = -104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 136 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 104.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Al₄B₂O₉ (s)	Aluminium Borate	Al₄B₂O₉ (s)
2Al ₂ O ₃ · B ₂ O ₃ (s)		2Al ₂ O ₃ · B ₂ O ₃ (s)
$\Delta H_{298}^0 = -4691.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 155.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 270.29 + 108.58 \cdot 10^{-3} \cdot T - 7.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1308 K) [4]		
Al₄C₃ (s)	Aluminium Carbide	Al₄C₃ (s)
$\Delta H_{298}^0 = -215.7 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 89 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 154.68 + 28.74 \cdot 10^{-3} \cdot T - 4.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1800 K) [4]		
Al₄Ca (s)	Calcium Aluminium	Al₄Ca (s)
CaAl ₄ (s)		CaAl ₄ (s)
mp = 973 K (700 °C)		
$\Delta H_{298}^0 = -215.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 124.27 + 32.64 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 973 K) [4]		

Al₄CaO₇ (s)	Calcium Aluminate	Al₄CaO₇ (s)
CaO · 2Al ₂ O ₃ (s)		CaO · 2Al ₂ O ₃ (s)

mp = 2038 K (1765 °C)

 $\Delta H_{298}^0 = -3999 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 276.52 + 22.93 \cdot 10^{-3} \cdot T - 7.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2038 K) [4]

Al₄Ce (s)	Aluminium Cerium	Al₄Ce (s)
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 $\Delta H_{298}^0 = -163 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 161.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 123.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Al₄Cl₁₅Y (g)	Yttrium Aluminium Chloride	Al₄Cl₁₅Y (g)
YAl ₄ Cl ₁₅ (g)		YAl ₄ Cl ₁₅ (g)

 $\Delta H_{298}^0 = -3564.8 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [24] $S_{298}^0 = 1071.1 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [24]

Al₄Mg₂O₁₈Si₅ (s)	Cordierite	Al₄Mg₂O₁₈Si₅ (s)
2MgO · 2Al ₂ O ₃ · 5SiO ₂ (s)		2MgO · 2Al ₂ O ₃ · 5SiO ₂ (s)

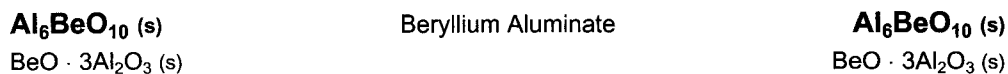
 $\Delta H_{298}^0 = -9161.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 407.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 452.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Al₄U (s)	Aluminium Uranium	Al₄U (s)
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 $\Delta H_{298}^0 = -130 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 163.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 129.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Al₅Co₂ (s)	Aluminium Cobalt	Al₅Co₂ (s)
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 $\Delta H_{298}^0 = -292.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 193.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 164.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

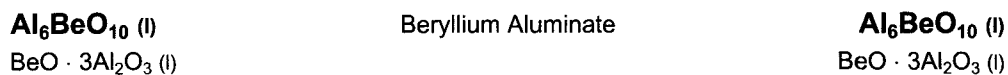


mp = 2186 K (1913 °C)

$$\Delta H_{298}^0 = -5624.1 \pm 5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 175.6 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 385.86 + 49.64 \cdot 10^{-3} \cdot T - 12.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -5299.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 314.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 265.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$



mp = 2123 K (1850 °C)

$$\Delta H_{298}^0 = -6819.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 274.9 \pm 12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

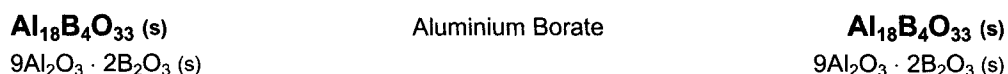
$$C_p^0 = 480.57 + 43.43 \cdot 10^{-3} \cdot T - 15.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2123 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -19430 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 1046.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 1084.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\Delta H_{298}^0 = -17749.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 654 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 980.31 + 613.37 \cdot 10^{-3} \cdot T - 28.83 \cdot 10^6 \cdot T^{-2} - 176.57 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1600 \text{ K}) [4]$$



$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 54.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 25.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Am (g)	Americium	Am (g)
$\Delta H_{298}^0 = 284.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ar (g)	Argon	Ar (g)
mp = 109 K (-164 °C)		bp = 112 K (-161 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
As (s)	Arsenic alpha	As (s)
mp = 1090 K (817 °C)		bp = 875 K (602 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 35.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 23.03 + 5.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 875 K) [4]		
$\lg(p,K) = -8.52 \cdot 10^3 \cdot T^{-1} - 3.19 \cdot \lg(T) + 19.13$ (500 ... 875 K) [4]		
{Reaction: evaporation as $\text{As}_4(\text{g})$ }		
As (g)	Arsenic	As (g)
$\Delta H_{298}^0 = 301.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 174.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.58 + 0.25 \cdot 10^{-3} \cdot T + 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2400 K) [6]		
AsAu₃O₄ (s)	Gold Arsenate	AsAu₃O₄ (s)
Au ₃ AsO ₄ (s)		Au ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -384.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 298.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 177.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AsBiO₄ (s)	Bismuth Arsenate	AsBiO₄ (s)
BiAsO ₄ (s)		BiAsO ₄ (s)
$\Delta H_{298}^0 = -795.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 168.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 121.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AsBr₃ (l)	Arsenic(III) Bromide	AsBr₃ (l)
mp = 304 K (31 °C)		bp = 494 K (221 °C)
$\Delta H_{298}^0 = -190.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 239.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 135.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -3.91 \cdot 10^3 \cdot T^{-1} - 6.64 \cdot \lg(T) + 25.8$ (298 ... 494 K) [4]		
{Reaction: evaporation}		

AsBr₃ (l)	Arsenic(III) Bromide	AsBr₃ (l)
$\Delta H_{494}^0 = -163.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{494}^0 = 308.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

AsBr₃ (g)	Arsenic(III) Bromide	AsBr₃ (g)
$\Delta H_{494}^0 = -116.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{494}^0 = 404.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.89 + 0.23 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (494 ... 2000 K) [4]		

AsBr₃ (g)	Arsenic(III) Bromide	AsBr₃ (g)
$\Delta H_{298}^0 = -132.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 363.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.89 + 0.23 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

AsCl₃ (l)	Arsenic(III) Chloride	AsCl₃ (l)
mp = 263 K (-10 °C)		bp = 403 K (130 °C)
$\Delta H_{298}^0 = -305.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 212.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -3.25 \cdot 10^3 \cdot T^{-1} - 6.85 \cdot \lg(T) + 25.91$ (298 ... 403 K) [4]		
{Reaction: evaporation}		

AsCl₃ (g)	Arsenic(III) Chloride	AsCl₃ (g)
$\Delta H_{298}^0 = -261.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 327.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.1 + 0.95 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

AsCrO₄ (s) CrAsO ₄ (s)	Chromium Arsenate	AsCrO₄ (s) CrAsO ₄ (s)
$\Delta H_{298}^0 = -1062.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 119.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 155.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsCs₃O₄ (s) Cs ₃ AsO ₄ (s)	Cesium Arsenate	AsCs₃O₄ (s) Cs ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -1668.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 176.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 283.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsCu₃ (s) Cu ₃ As (s)	Copper Arsenide	AsCu₃ (s) Cu ₃ As (s)
mp = 1100 K (827 °C) $\Delta H_{298}^0 = -11.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 93.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 137.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsCu₃O₄ (s) Cu ₃ AsO ₄ (s)	Copper Arsenate	AsCu₃O₄ (s) Cu ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -710.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 176.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 256 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsF₃ (l)	Arsenic(III) Fluoride	AsF₃ (l)
mp = 265 K (-8 °C) $\Delta H_{298}^0 = -821.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 126.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p, K) = -2.81 \cdot 10^3 \cdot T^{-1} - 7.31 \cdot \lg(T) + 26.9$ (298 ... 331 K) [4] {Reaction: evaporation}		bp = 336 K (63 °C) $S_{298}^0 = 181.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsF₃ (g)	Arsenic(III) Fluoride	AsF₃ (g)
$\Delta H_{298}^0 = -785.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 75.46 + 7.1 \cdot 10^{-3} \cdot T - 1.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 289.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

AsF₅ (g)	Arsenic(V) Fluoride	AsF₅ (g)
$\Delta H_{298}^0 = -1236.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 317.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 130.96 - 2.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [3]		
AsFeO₄ (s) FeAsO ₄ (s)	Iron(III) Arsenate	AsFeO₄ (s) FeAsO ₄ (s)
$\Delta H_{298}^0 = -865.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 161.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 117.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AsGa (s) GaAs (s)	Gallium Arsenide	AsGa (s) GaAs (s)
mp = 1151 K (878 °C)		
$\Delta H_{298}^0 = -74.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.19 + 6.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1511 K) [4]		
AsGa (s) GaAs (s)	Gallium Arsenide	AsGa (s) GaAs (s)
$\Delta H_{1511}^0 = -12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1511}^0 = 144.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AsGa (l) GaAs (l)	Gallium Arsenide	AsGa (l) GaAs (l)
$\Delta H_{1511}^0 = 75.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1511}^0 = 203 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1511 K) [4]		
AsGaO₄ (s) GaAsO ₄ (s)	Gallium Arsenate	AsGaO₄ (s) GaAsO ₄ (s)
$\Delta H_{298}^0 = -1002.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 150.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 118.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AsH₃ (g)	Arsenic(III) Hydride	AsH₃ (g)
mp = 159 K (-114 °C)		bp = 218 K (-55 °C)
$\Delta H_{298}^0 = 66.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 222.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.01 + 22.8 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

AsI₃ (s)	Arsenic(III) Iodide	AsI₃ (s)
mp = 414 K (141 °C)		bp = 644 K (371 °C)
$\Delta H_{298}^0 = -58.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 86.79 + 63.67 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 414 K) [4]		
$\lg(p,K) = -5.35 \cdot 10^3 \cdot T^{-1} - 3.37 \cdot \lg(T) + 18.9$ (298 ... 414 K) [4]		
{Reaction: evaporation}		

AsI₃ (s)	Arsenic(III) Iodide	AsI₃ (s)
$\Delta H_{414}^0 = -45.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{414}^0 = 248.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

AsI₃ (l)	Arsenic(III) Iodide	AsI₃ (l)
$\Delta H_{414}^0 = -23.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{414}^0 = 302.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 137.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (414 K) [4]		
$\lg(p,K) = -4.78 \cdot 10^3 \cdot T^{-1} - 6.66 \cdot \lg(T) + 26.12$ (414 ... 644 K) [4]		
{Reaction: evaporation}		

AsI₃ (l)	Arsenic(III) Iodide	AsI₃ (l)
$\Delta H_{644}^0 = 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{644}^0 = 363.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

AsI₃ (g)	Arsenic(III) Iodide	AsI₃ (g)
$\Delta H_{644}^0 = 64.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{644}^0 = 450.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83 + 0.17 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (644 ... 2000 K) [4]		

AsI₃ (g)	Arsenic(III) Iodide	AsI₃ (g)
$\Delta H_{298}^0 = 38.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 391.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

AsIn (s) InAs (s)	Indium Arsenide	AsIn (s) InAs (s)
mp = 1216 K (943 °C)		
$\Delta H_{298}^0 = -58.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 75.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.07 + 7.53 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1216 K) [4]		
AsIn (s) InAs (s)	Indium Arsenide	AsIn (s) InAs (s)
$\Delta H_{1216}^0 = -10.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1216}^0 = 148.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AsIn (l) InAs (l)	Indium Arsenide	AsIn (l) InAs (l)
$\Delta H_{1216}^0 = 66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1216}^0 = 212.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 59.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1216 K) [4]		
AsInO₄ (s) InAsO ₄ (s)	Indium Arsenate	AsInO₄ (s) InAsO ₄ (s)
$\Delta H_{298}^0 = -978.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 154.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AsK₃O₄ (s) K ₃ AsO ₄ (s)	Potassium Arsenate	AsK₃O₄ (s) K ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -1668.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 237.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 172.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AsLa (s) LaAs (s)	Lanthanum Arsenide	AsLa (s) LaAs (s)
$\Delta H_{298}^0 = -305.4 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]

AsLaO₄ (s) LaAsO ₄ (s)	Lanthanum Arsenate	AsLaO₄ (s) LaAsO ₄ (s)
$\Delta H_{298}^0 = -1556.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 117.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 163.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsLi₃O₄ (s) Li ₃ AsO ₄ (s)	Lithium Arsenate	AsLi₃O₄ (s) Li ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -1702.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 161.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 173.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsMn (s) MnAs (s)	Manganese Arsenide	AsMn (s) MnAs (s)
mp = 1208 K (935 °C) $\Delta H_{298}^0 = -56.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 70.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 77.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsMoO₄ (s) MoAsO ₄ (s)	Molybdenum Arsenate	AsMoO₄ (s) MoAsO ₄ (s)
$\Delta H_{298}^0 = -910.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 120.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 163 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsNa₃ (s) Na ₃ As (s)	Sodium Arsenide	AsNa₃ (s) Na ₃ As (s)
$\Delta H_{298}^0 = -205 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 97.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AsNa₃O₄ (s) Na ₃ AsO ₄ (s)	Sodium Arsenate	AsNa₃O₄ (s) Na ₃ AsO ₄ (s)
$\Delta H_{298}^0 = -1540 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 170.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 217.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

AsNi (s) NiAs (s)	Nickel Arsenide	AsNi (s) NiAs (s)
$mp = 1237 \text{ K (964 } ^\circ\text{C)}$ $\Delta H_{298}^0 = -72 \text{ kJ}\cdot\text{mol}^{-1} [4]$ $C_p^0 = 43.72 + 12.97 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1237 \text{ K}) [4]$		$S_{298}^0 = 51.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$
AsO (g)	Arsenic Oxide	AsO (g)
$\Delta H_{298}^0 = -57.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$ $C_p^0 = 32.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$		$S_{298}^0 = 230.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$
AsO₄Re (s) ReAsO ₄ (s)	Rhenium Arsenate	AsO₄Re (s) ReAsO ₄ (s)
$\Delta H_{298}^0 = -771.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$ $C_p^0 = 121.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$		$S_{298}^0 = 170 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$
AsO₄Sc (s) ScAsO ₄ (s)	Scandium Arsenate	AsO₄Sc (s) ScAsO ₄ (s)
$\Delta H_{298}^0 = -1433 \text{ kJ}\cdot\text{mol}^{-1} [2]$ $C_p^0 = 119.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$		$S_{298}^0 = 155.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$
AsO₄Tl (s) TlAsO ₄ (s)	Thallium Arsenate	AsO₄Tl (s) TlAsO ₄ (s)
$\Delta H_{298}^0 = -948.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$ $C_p^0 = 145.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$		$S_{298}^0 = 299.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$
AsO₄Y (s) YAsO ₄ (s)	Yttrium Arsenate	AsO₄Y (s) YAsO ₄ (s)
$\Delta H_{298}^0 = -1515.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$ $C_p^0 = 120.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$		$S_{298}^0 = 160.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

AsO₅U (s) UAsO ₅ (s)	Uranium(V) Arsenate	AsO₅U (s) UAsO ₅ (s)
$\Delta H_{298}^0 = -1678.6 \pm 2.7 \text{ kJ}\cdot\text{mol}^{-1}$ [255]		$S_{298}^0 = 136.4 \pm 6.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [255]
$C_p^0 = 138 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [255]		
AsS (g)	Arsenic Sulfide	AsS (g)
$\Delta H_{298}^0 = 202.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 232.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.95 + 1.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
AsSe (s)	Arsenic Selenide	AsSe (s)
mp = 570 K (297 °C)		
$\Delta H_{298}^0 = [-38.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [76.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [51.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [15]		
AsSe (g)	Arsenic Selenide	AsSe (g)
$\Delta H_{298}^0 = 207.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 247.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AsTe (g)	Arsenic Telluride	AsTe (g)
$\Delta H_{298}^0 = 228.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 255.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
As₂ (g)	Arsenic	As₂ (g)
$\Delta H_{298}^0 = 190.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 240.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.2 + 0.15 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2100 K) [4]		
$\lg(p, K) = -10.31 \cdot 10^3 \cdot T^{-1} - 2.18 \cdot \lg(T) + 15.32$ (600 ... 875 K) [4]		
{Reaction: evaporation of As(s)}		

As₂Ba₃O₈ (s) 3BaO · As ₂ O ₅ (s)	Barium Arsenate	As₂Ba₃O₈ (s) 3BaO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -3421.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 257.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 309.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Be₃O₈ (s) 3BeO · As ₂ O ₅ (s)	Beryllium Arsenate	As₂Be₃O₈ (s) 3BeO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -2738.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 232.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 207.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Ca₃O₈ (s) 3CaO · As ₂ O ₅ (s)	Calcium Arsenate	As₂Ca₃O₈ (s) 3CaO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -3298.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 249.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 226 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Cd₃ (s) Cd ₃ As ₂ (s)	Cadmium Arsenide	As₂Cd₃ (s) Cd ₃ As ₂ (s)
mp = 994 K (721 °C) $\Delta H_{298}^0 = -38.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 136.19 + 11.92 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 994 K) [4]		$S_{298}^0 = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Cd₃ (s) Cd ₃ As ₂ (s)	Cadmium Arsenide	As₂Cd₃ (s) Cd ₃ As ₂ (s)
$\Delta H_{994}^0 = 59 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{994}^0 = 372.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Cd₃ (l) Cd ₃ As ₂ (l)	Cadmium Arsenide	As₂Cd₃ (l) Cd ₃ As ₂ (l)
$\Delta H_{994}^0 = 181.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 158.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (994 K) [4]		$S_{994}^0 = 496.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

As₂Cd₃O₈ (s) 3CdO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -1934.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 258.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Cadmium Arsenate	As₂Cd₃O₈ (s) 3CdO · As ₂ O ₅ (s) $S_{298}^0 = 301.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Co₃O₈ (s) 3CoO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -1864.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 264.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Cobalt Arsenate	As₂Co₃O₈ (s) 3CoO · As ₂ O ₅ (s) $S_{298}^0 = 337 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Cr₃O₈ (s) 3CrO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -2218.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 261.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Chromium Arsenate	As₂Cr₃O₈ (s) 3CrO · As ₂ O ₅ (s) $S_{298}^0 = 321.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Cu₃O₈ (s) 3CuO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -1522.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Copper Arsenate	As₂Cu₃O₈ (s) 3CuO · As ₂ O ₅ (s) $S_{298}^0 = 298.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Fe₃O₈ (s) 3FeO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -1955 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 264.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Iron Arsenate	As₂Fe₃O₈ (s) 3FeO · As ₂ O ₅ (s) $S_{298}^0 = 339.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Hg₃O₈ (s) 3HgO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -1271 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 261.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Mercury Arsenate	As₂Hg₃O₈ (s) 3HgO · As ₂ O ₅ (s) $S_{298}^0 = 323.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

As₂Mg₃O₈ (s) 3MgO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -3059.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 236.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Magnesium Arsenate	As₂Mg₃O₈ (s) 3MgO · As ₂ O ₅ (s) $S_{298}^0 = 225.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Mn₃O₈ (s) 3MnO · As ₂ O ₅ (s) $\Delta H_{298}^0 = -2366.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 261.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	Manganese Arsenate	As₂Mn₃O₈ (s) 3MnO · As ₂ O ₅ (s) $S_{298}^0 = 319.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) mp = 1498 K (1225 °C) $\Delta H_{298}^0 = -3080.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 271.12 + 234.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 663 K) [4]	Sodium Arsenate alpha	As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $S_{298}^0 = 372.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $\Delta H_{663}^0 = -2940.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 426.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (663 K) [4]	Sodium Arsenate alpha	As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $S_{663}^0 = 674.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $\Delta H_{663}^0 = -2936.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 271.12 + 234.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (663 ... 733 K) [4]	Sodium Arsenate beta	As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $S_{663}^0 = 679.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $\Delta H_{733}^0 = -2906.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 442.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (733 K) [4]	Sodium Arsenate beta	As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s) $S_{733}^0 = 723.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s)	Sodium Arsenate gamma	As₂Na₆O₈ (s) 3Na ₂ O · As ₂ O ₅ (s)
$\Delta H_{733}^0 = -2886.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 271.12 + 234.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (733 ... 1000 K) [4]		$S_{733}^0 = 750.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Ni₃O₈ (s) 3NiO · As ₂ O ₅ (s)	Nickel Arsenate	As₂Ni₃O₈ (s) 3NiO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -1849.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 265.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 344.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂Ni₅ (s) Ni ₅ As ₂ (s)	Nickel Arsenide	As₂Ni₅ (s) Ni ₅ As ₂ (s)
$\Delta H_{298}^0 = -251.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 216 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 190.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂O₃ (s)	Arsenic(III) Oxide	As₂O₃ (s)
mp = 588 K (315 °C) $\Delta H_{298}^0 = -655 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 93.71 + 58.48 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 607 K) [4] $\lg(p, K) = -6.49 \cdot 10^3 \cdot T^{-1} - 3.69 \cdot \lg(T) + 20.46$ (400 ... 607 K) [4] {Reaction: evaporation as As ₄ O ₆ (g)}		$S_{298}^0 = 113.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂O₅ (s)	Arsenic(V) Oxide	As₂O₅ (s)
$\Delta H_{298}^0 = -924.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 112.21 + 82.94 \cdot 10^{-3} \cdot T - 1.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1084 K) [4]		$S_{298}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂O₈Pb₃ (s) 3PbO · As ₂ O ₅ (s)	Lead Arsenate	As₂O₈Pb₃ (s) 3PbO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -1780.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 258 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 324.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

As₂O₈Sn₃ (s) 3SnO · As ₂ O ₅ (s)	Tin Arsenate	As₂O₈Sn₃ (s) 3SnO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -1785.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 259.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 303.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂O₈Sr₃ (s) 3SrO · As ₂ O ₅ (s)	Strontium Arsenate	As₂O₈Sr₃ (s) 3SrO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -3317.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 257.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [257]
As₂O₈Ti₃ (s) 3TiO · As ₂ O ₅ (s)	Titanium Arsenate	As₂O₈Ti₃ (s) 3TiO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -2617.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 264.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 339.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂O₈U (s) UO ₂ (AsO ₃) ₂ (s)	Uranyl Arsenate	As₂O₈U (s) UO ₂ (AsO ₃) ₂ (s)
$\Delta H_{298}^0 = -2177.3 \text{ kJ}\cdot\text{mol}^{-1}$ [256] $C_p^0 = 200.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [256]		$S_{298}^0 = 211.3 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [256]
As₂O₈Zn₃ (s) 3ZnO · As ₂ O ₅ (s)	Zinc Arsenate	As₂O₈Zn₃ (s) 3ZnO · As ₂ O ₅ (s)
$\Delta H_{298}^0 = -2134.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 255.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 281.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
As₂O₁₁U₂ (s) (UO ₂) ₂ As ₂ O ₇ (s)	Uranyl Arsenate	As₂O₁₁U₂ (s) (UO ₂) ₂ As ₂ O ₇ (s)
$\Delta H_{298}^0 = -3446.7 \text{ kJ}\cdot\text{mol}^{-1}$ [256] $C_p^0 = 273.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [256]		$S_{298}^0 = 286.5 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [256]

As₂O₁₄U₃ (s) (UO ₂) ₃ (AsO ₄) ₂ (s)	Uranyl Arsenate	As₂O₁₄U₃ (s) (UO ₂) ₃ (AsO ₄) ₂ (s)
$\Delta H_{298}^0 = -4710.1 \text{ kJ}\cdot\text{mol}^{-1}$ [256] $C_p^0 = 364 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [256]		$S_{298}^0 = 366.6 \pm 3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [256]
As₂S₃ (s)	Arsenic(III) Sulfide Auripigment	As₂S₃ (s)
mp = 585 K (312 °C) $\Delta H_{298}^0 = -167.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 105.65 + 36.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 585 K) [4]		$S_{298}^0 = 163.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂S₃ (s)	Arsenic(III) Sulfide Auripigment	As₂S₃ (s)
$\Delta H_{585}^0 = -132.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{585}^0 = 245.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂S₃ (l)	Arsenic(III) Sulfide Auripigment	As₂S₃ (l)
$\Delta H_{585}^0 = -103.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 177.86 + 16.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (585 ... 1001 K) [4]		$S_{585}^0 = 294.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Se₃ (s)	Arsenic(III) Selenide	As₂Se₃ (s)
mp = 650 K (377 °C) $\Delta H_{298}^0 = -102.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 95.81 + 85.77 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 650 K) [4]		$S_{298}^0 = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Se₃ (s)	Arsenic(III) Selenide	As₂Se₃ (s)
$\Delta H_{650}^0 = -54.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{650}^0 = 299.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₂Se₃ (l)	Arsenic(III) Selenide	As₂Se₃ (l)
$\Delta H_{650}^0 = -13.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 195.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (650 K) [4]		$S_{650}^0 = 362.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

As₂Te₃ (s)	Arsenic(III) Telluride	As₂Te₃ (s)
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mp = 648 K (375 °C)

$$\Delta H_{298}^0 = -37.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 226.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 135.19 + 44.35 \cdot 10^{-3} \cdot T - 1.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 648 \text{ K}) [4]$$

As₂Te₃ (s)	Arsenic(III) Telluride	As₂Te₃ (s)
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$$\Delta H_{648}^0 = 14.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{648}^0 = 342.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

As₂Te₃ (l)	Arsenic(III) Telluride	As₂Te₃ (l)
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$$\Delta H_{648}^0 = 61.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{648}^0 = 414.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (648 \text{ K}) [4]$$

As₂Zn₃ (s)	Zinc Arsenide	As₂Zn₃ (s)
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Zn₃As₂ (s)

Zn₃As₂ (s)

mp = 1288 K (1015 °C)

$$\Delta H_{298}^0 = -143.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 178.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 112.76 + 41.84 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1288 \text{ K}) [4]$$

As₃ (g)	Arsenic	As₃ (g)
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$$\Delta H_{298}^0 = 261.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 310.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 62.1 + 0.2 \cdot 10^{-3} \cdot T - 2.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

As₄ (g)	Arsenic	As₄ (g)
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$$\Delta H_{298}^0 = 153.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 327.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.94 + 0.13 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

As₄O₆ (s)	Arsenic(III) Oxide Arsenolithe	As₄O₆ (s)
mp = 582 K (309 °C)		bp = 670 K (397 °C)
$\Delta H_{298}^0 = -1313.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 214.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.04 + 406.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 582 K) [4]		
$\lg(p,K) = -7.16 \cdot 10^3 \cdot T^{-1} - 6.78 \cdot \lg(T) + 30.3$ (400 ... 582 K) [4]		
{Reaction: evaporation as As ₄ O ₆ (g)}		
As₄O₆ (s)	Arsenic(III) Oxide	As₄O₆ (s)
$\Delta H_{582}^0 = -1243.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{582}^0 = 377.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₄O₆ (l)	Arsenic(III) Oxide	As₄O₆ (l)
$\Delta H_{582}^0 = -1206.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{582}^0 = 440.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 305.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (582 K) [4]		
$\lg(p,K) = -6.28 \cdot 10^3 \cdot T^{-1} - 10.98 \cdot \lg(T) + 40.36$ (582 ... 670 K) [4]		
{Reaction: evaporation as As ₄ O ₆ (g)}		
As₄O₆ (l)	Arsenic(III) Oxide	As₄O₆ (l)
$\Delta H_{670}^0 = -1179.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{670}^0 = 483.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₄O₆ (g)	Arsenic(III) Oxide	As₄O₆ (g)
$\Delta H_{670}^0 = -1121.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{670}^0 = 570.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₄O₆ (g)	Arsenic(III) Oxide	As₄O₆ (g)
$\Delta H_{298}^0 = -1196.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 409.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 212.81 + 18.57 \cdot 10^{-3} \cdot T - 3.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

As₄S₄ (s)	Arsenic Sulfide Realgar	As₄S₄ (s)
mp = 580 K (307 °C)		
$\Delta H_{298}^0 = -284.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 253.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 165.86 + 74.72 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 580 K) [4]		
As₄S₄ (s)	Arsenic Sulfide Realgar	As₄S₄ (s)
$\Delta H_{580}^0 = -228.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{580}^0 = 385 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
As₄S₄ (l)	Arsenic Sulfide Realgar	As₄S₄ (l)
$\Delta H_{580}^0 = -204.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{580}^0 = 426.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (580 K) [4]		
As₄S₄ (g)	Arsenic Sulfide	As₄S₄ (g)
$\Delta H_{298}^0 = -2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 446.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 164.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
As₄U₃ (s) U ₃ As ₄ (s)	Uranium Arsenide	As₄U₃ (s) U ₃ As ₄ (s)
$\Delta H_{298}^0 = -720 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 309.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.61 + 66.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
As₇Re₃ (s) Re ₃ As ₇ (s)	Rhenium Arsenide	As₇Re₃ (s) Re ₃ As ₇ (s)
$\Delta H_{298}^0 = -95.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 336.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 248.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

As₈Ni₁₁ (s)	Nickel Arsenide	As₈Ni₁₁ (s)
Ni ₁₁ As ₈ (s)		Ni ₁₁ As ₈ (s)

$$\Delta H_{298}^0 = -774 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 468.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 552 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Au (s)	Gold	Au (s)
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$$\text{mp} = 1338 \text{ K} (1065 \text{ }^\circ\text{C})$$

$$\text{bp} = 3127 \text{ K} (2854 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 47.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 31.5 - 13.51 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} + 10.98 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1338 \text{ K}) [4]$$

$$\lg(p, K) = -19.62 \cdot 10^3 \cdot T^{-1} - 1.32 \cdot \lg(T) + 11.13 (1300 \dots 1338 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

Au (s)	Gold	Au (s)
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$$\Delta H_{1338}^0 = 29.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1338}^0 = 88.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Au (l)	Gold	Au (l)
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$$\Delta H_{1338}^0 = 41.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1338}^0 = 97.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 30.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1338 \dots 3127 \text{ K}) [4]$$

$$\lg(p, K) = -18.57 \cdot 10^3 \cdot T^{-1} - 0.76 \cdot \lg(T) + 8.6 (1338 \dots 3127 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

Au (g)	Gold	Au (g)
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$$\Delta H_{298}^0 = 368.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 180.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 21.64 - 2.12 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} + 1.23 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3127 \text{ K}) [4]$$

AuBr (s)	Gold(I) Bromide	AuBr (s)
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$$\Delta H_{298}^0 = -14.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 98.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 49.37 + 5.55 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 415 \text{ K}) [4]$$

AuCd (s)	Gold Cadmium	AuCd (s)
mp = 902 K (629 °C)		
$\Delta H_{298}^0 = -38.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuCl (s)	Gold(I) Chloride	AuCl (s)
mp = 561 K (288 °C)		
$\Delta H_{298}^0 = -37.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 89.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.53 + 5.44 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 550 K) [4]		
AuCl₃ (s)	Gold(III) Chloride	AuCl₃ (s)
$\Delta H_{298}^0 = -117.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 161.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 97.91 + 5.44 \cdot 10^{-3} \cdot T - 4.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 523 K) [4]		
AuCu (s)	Gold Copper	AuCu (s)
$\Delta H_{298}^0 = -17.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 100.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuCu₃ (s)	Gold Copper	AuCu₃ (s)
$\Delta H_{298}^0 = -28.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 149.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 96.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuF₃ (s)	Gold(III) Fluoride	AuF₃ (s)
$\Delta H_{298}^0 = -363.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 114.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 91.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuH (g)	Gold Hydride	AuH (g)
$\Delta H_{298}^0 = 273.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 211.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.87 + 2 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

AuH₃O₃ (s) Au(OH) ₃ (s)	Gold(III) Hydroxide	AuH₃O₃ (s) Au(OH) ₃ (s)
$\Delta H_{298}^0 = -424.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 189.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AuI (s)	Gold(I) Iodide	AuI (s)
$\Delta H_{298}^0 = 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 50.2 + 5.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 650 K) [4]		$S_{298}^0 = 111.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AuLa (g) LaAu (g)	Lanthanum Gold	AuLa (g) LaAu (g)
$\Delta H_{298}^0 = 463.6 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 280.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
AuS (g)	Gold Sulfide	AuS (g)
$\Delta H_{298}^0 = 230.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 37.3 + 0.05 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 267.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AuSb₂ (s)	Gold Antimonide	AuSb₂ (s)
mp = 733 K (460 °C) $\Delta H_{298}^0 = -19.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 71.63 + 19.41 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 733 K) [4]		$S_{298}^0 = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
AuSe (s)	Gold Selenide alpha	AuSe (s)
$\Delta H_{298}^0 = -13.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 75.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
AuSe (s)	Gold Selenide beta	AuSe (s)
$\Delta H_{298}^0 = -10.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 84.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

AuSn (s)	Gold Tin	AuSn (s)
mp = 692 K (419 °C)		
$\Delta H_{298}^0 = -30.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 98.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 46.57 + 15.9 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 692 K) [3]		
AuSn₂ (s)	Gold Tin	AuSn₂ (s)
$\Delta H_{298}^0 = -42.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 135.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuSn₄ (s)	Gold Tin	AuSn₄ (s)
$\Delta H_{298}^0 = -38.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 250.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 137.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
AuTe₂ (s)	Gold Telluride	AuTe₂ (s)
mp = 737 K (464 °C)		
$\Delta H_{298}^0 = -19 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 141.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 63.6 + 37.41 \cdot 10^{-3} \cdot T + 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 737 K) [4]		
Au₂O₃ (s)	Gold(III) Oxide	Au₂O₃ (s)
$\Delta H_{298}^0 = -3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 130.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.53 + 21.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		
Au₂P₃ (s)	Gold Phosphide	Au₂P₃ (s)
$\Delta H_{298}^0 = -99.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 149.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.37 + 37.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 978 K) [4]		

B (s)	Boron beta	B (s)
mp = 2350 K (2077 °C)		bp = 4139 K (3866 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 5.8 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 18.87 + 8.17 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^{-6} \cdot T^{-2} - 1.36 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2350 K) [4]		
$\lg(p,K) = -29.84 \cdot 10^3 \cdot T^{-1} - 1.07 \cdot \lg(T) + 11.58$ (1800 ... 2350 K) [4]		
{Reaction: evaporation}		

B (s)	Boron beta	B (s)
$\Delta H_{2350}^0 = 52.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2350}^0 = 52.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

B (l)	Boron	B (l)
$\Delta H_{2350}^0 = 102.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2350}^0 = 74.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2350 K) [4]		
$\lg(p,K) = -27.47 \cdot 10^3 \cdot T^{-1} - 1.32 \cdot \lg(T) + 11.41$ (2350 ... 4139 K) [4]		
{Reaction: evaporation}		

B (g)	Boron	B (g)
$\Delta H_{298}^0 = 560 \pm 12 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 153.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BBeO₂ (g) BeBO ₂ (g)	Beryllium Borate	BBeO₂ (g) BeBO ₂ (g)
$\Delta H_{298}^0 = -482 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 265.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BBr (g)	Boron(I) Bromide	BBr (g)
$\Delta H_{298}^0 = 234 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.21 + 1.15 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BBrCl (g)	Bromochloroborane	BBrCl (g)
$\Delta H_{298}^0 = -10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 289 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBrCl₂ (g)	Bromodichloroborane	BBrCl₂ (g)
$\Delta H_{298}^0 = -336.8 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 310.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBrF (g)	Bromofluoroborane	BBrF (g)
$\Delta H_{298}^0 = -240.6 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 275.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBrF₂ (g)	Bromodifluoroborane	BBrF₂ (g)
$\Delta H_{298}^0 = -820 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 286.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBrO (g) OBBr (g)	Boron Bromide Oxide	BBrO (g) OBBr (g)
$\Delta H_{298}^0 = -251 \pm 7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 248.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBr₂ (g)	Boron(II) Bromide	BBr₂ (g)
$\Delta H_{298}^0 = 62.8 \pm 15 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 294.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 55.35 + 1.76 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BBr₂Cl (g)	Dibromochloroborane	BBr₂Cl (g)
$\Delta H_{298}^0 = -272 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 321.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 66.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BBr₂F (g)	Dibromofluoroborane	BBr₂F (g)
$\Delta H_{298}^0 = -515 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 310 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBr₂H (g) BHBr ₂ (g)	Dibromoborane	BBr₂H (g) BHBr ₂ (g)
$\Delta H_{298}^0 = -105 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 292.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BBr₃ (l)	Boron(III) Bromide	BBr₃ (l)
mp = 229 K (-44 °C)		bp = 365 K (92 °C)
$\Delta H_{298}^0 = -238.5 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 128.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -2.7 \cdot 10^3 \cdot T^{-1} - 7.03 \cdot \lg(T) + 25.43$ (298 ... 363 K) [4]		
{Reaction: evaporation}		
BBr₃ (g)	Boron(III) Bromide	BBr₃ (g)
$\Delta H_{298}^0 = -204.2 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 324.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 80.38 + 1.44 \cdot 10^{-3} \cdot T - 1.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BC (g)	Boron Carbide	BC (g)
$\Delta H_{298}^0 = 828.4 \pm 41 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 208.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BCl (g)	Boron(I) Chloride	BCl (g)
$\Delta H_{298}^0 = 149.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 213.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.28 + 1.7 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BClF (g)	Boron(II) Chloride Fluoride	BClF (g)
$\Delta H_{298}^0 = -313.8 \pm 29 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 264.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 42.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BCIF₂ (g)	Boron(III) Chloride Difluoride	BCIF₂ (g)
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$$\Delta H_{298}^0 = -885.3 \pm 20 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 274.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 54.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BCIO (g) BOCl (g)	Boron Chloride Oxide	BCIO (g) BOCl (g)
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$$\Delta H_{298}^0 = -316.3 \pm 29 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 237.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 54.23 + 3.91 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BCl₂ (g)	Boron(II) Chloride	BCl₂ (g)
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$$\Delta H_{298}^0 = -79.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 272.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 55.49 + 1.69 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BCl₂F (g)	Boron(III) Dichloride Fluoride	BCl₂F (g)
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$$\Delta H_{298}^0 = -644.3 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 287.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 59.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BCl₂H (g) BHCl ₂ (g)	Dichloroborane	BCl₂H (g) BHCl ₂ (g)
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$$\Delta H_{298}^0 = -248.1 \pm 4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 268.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 49.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BCl₃ (g)	Boron(III) Chloride	BCl₃ (g)
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$$\text{mp} = 166 \text{ K} (-107 \text{ }^\circ\text{C})$$

$$\text{bp} = 286 \text{ K} (13 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -403 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 290.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 78.41 + 2.41 \cdot 10^{-3} \cdot T - 1.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BCo (s) CoB (s)	Cobalt Boride	BCo (s) CoB (s)
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$$\Delta H_{298}^0 = -94.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 30.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

BCo₂ (s) Co ₂ B (s)	Cobalt Boride	BCo₂ (s) Co ₂ B (s)
$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 59.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BCr (s) CrB (s)	Chromium Boride	BCr (s) CrB (s)
mp = 2373 K (2100 °C)		
$\Delta H_{298}^0 = -78.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.34 + 16.03 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BCsO₂ (s) CsBO ₂ (s)	Cesium Borate	BCsO₂ (s) CsBO ₂ (s)
$\Delta H_{298}^0 = -976.8 \pm 0.9 \text{ kJ}\cdot\text{mol}^{-1}$ [142]		$S_{298}^0 = [100.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [143]
$C_p^0 = [69.41] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
BCsO₂ (g) CsBO ₂ (g)	Cesium Borate	BCsO₂ (g) CsBO ₂ (g)
$\Delta H_{298}^0 = -708.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 314.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.2 + 5.41 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BF (g)	Boron(I) Fluoride	BF (g)
$\Delta H_{298}^0 = -122.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 200.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 30.98 + 4.05 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BFO (g) BOF (g)	Boron Oxide Fluoride	BFO (g) BOF (g)
$\Delta H_{298}^0 = -602.5 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 224.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 51.98 + 5.04 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BF₂ (g)	Boron(II) Fluoride	BF₂ (g)
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$\Delta H_{298}^0 = -589.9 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 247.2 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.86 + 5.59 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

BF₂H (g) BHF ₂ (g)	Difluoroborane	BF₂H (g) BHF ₂ (g)
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$\Delta H_{298}^0 = -733.9 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 244 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 42.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

BF₂HO (g) BF ₂ OH (g)	Difluorohydroxyborane	BF₂HO (g) BF ₂ OH (g)
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$\Delta H_{298}^0 = -1084 \pm 20 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 269.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

BF₂O (g) OBF ₂ (g)	Boron Oxide Fluoride	BF₂O (g) OBF ₂ (g)
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$\Delta H_{298}^0 = -836.8 \pm 15 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 267.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

BF₃ (g)	Boron(III) Fluoride	BF₃ (g)
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mp = 147 K (-126 °C)	bp = 173 K (-100 °C)
$\Delta H_{298}^0 = -1135.6 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 254.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 56.82 + 27.49 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^{-6} \cdot T^{-2} - 7.74 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

BF₄K (s) KBF ₄ (s)	Potassium Tetrafluoroborate alpha	BF₄K (s) KBF ₄ (s)
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mp = 843 K (570 °C)	
$\Delta H_{298}^0 = -1887 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 133.9 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.35 + 162.59 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 556 K) [4]	

BF₄K (s) KBF ₄ (s)	Potassium Tetrafluoroborate alpha	BF₄K (s) KBF ₄ (s)
$\Delta H_{556}^0 = -1852.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{556}^0 = 216.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄K (s) KBF ₄ (s)	Potassium Tetrafluoroborate beta	BF₄K (s) KBF ₄ (s)
$\Delta H_{556}^0 = -1838.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 146.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (556 K) [4]		$S_{556}^0 = 242.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄K (s) KBF ₄ (s)	Potassium Tetrafluoroborate beta	BF₄K (s) KBF ₄ (s)
$\Delta H_{843}^0 = -1796.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{843}^0 = 303 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄K (l) KBF ₄ (l)	Potassium Tetrafluoroborate	BF₄K (l) KBF ₄ (l)
$\Delta H_{843}^0 = -1778.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 167.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (843 K) [4]		$S_{843}^0 = 323.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄K (l) KBF ₄ (l)	Potassium Tetrafluoroborate	BF₄K (l) KBF ₄ (l)
$\Delta H_{298}^0 = -1869.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 167.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 150.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BF₄K (g) KBF ₄ (g)	Potassium Tetrafluoroborate	BF₄K (g) KBF ₄ (g)
$\Delta H_{298}^0 = -1552.3 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 115.6 + 9.08 \cdot 10^{-3} \cdot T - 2.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 315.4 \pm 3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

BF₄Li (s) LiBF ₄ (s)	Lithium Tetrafluoroborate	BF₄Li (s) LiBF ₄ (s)
$\Delta H_{298}^0 = -1876 \text{ kJ}\cdot\text{mol}^{-1}$ [72]		$S_{298}^0 = 106 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [72]
BF₄Na (s) NaBF ₄ (s)	Sodium Tetrafluoroborate alpha	BF₄Na (s) NaBF ₄ (s)
mp = 681 K (408 °C)		
$\Delta H_{298}^0 = -1844.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 145.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 50.96 + 217.57 \cdot 10^{-3} \cdot T + 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 516 K) [4]		
BF₄Na (s) NaBF ₄ (s)	Sodium Tetrafluoroborate alpha	BF₄Na (s) NaBF ₄ (s)
$\Delta H_{516}^0 = -1813.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{516}^0 = 222 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄Na (s) NaBF ₄ (s)	Sodium Tetrafluoroborate beta	BF₄Na (s) NaBF ₄ (s)
$\Delta H_{516}^0 = -1807.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{516}^0 = 235 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 152.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (516 K) [4]		
BF₄Na (s) NaBF ₄ (s)	Sodium Tetrafluoroborate beta	BF₄Na (s) NaBF ₄ (s)
$\Delta H_{681}^0 = -1781.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{681}^0 = 277.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BF₄Na (l) NaBF ₄ (l)	Sodium Tetrafluoroborate	BF₄Na (l) NaBF ₄ (l)
$\Delta H_{681}^0 = -1768.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{681}^0 = 297.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 165.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (681 K) [4]		

BFe (s) FeB (s)	Iron Boride	BFe (s) FeB (s)
mp = 1863 K (1590 °C)		
$\Delta H_{298}^0 = -72.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.96 + 10 \cdot 10^{-3} \cdot T - 1.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1863 K) [4]		
BFe (s) FeB (s)	Iron Boride	BFe (s) FeB (s)
$\Delta H_{1863}^0 = 19.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
		$S_{1863}^0 = 132.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BFe (l) FeB (l)	Iron Boride	BFe (l) FeB (l)
$\Delta H_{1863}^0 = 81.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
$C_p^0 = 89.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1863 K) [4]		$S_{1863}^0 = 166 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BFe₂ (s) Fe ₂ B (s)	Iron Boride	BFe₂ (s) Fe ₂ B (s)
mp = 1662 K (1389 °C)		
$\Delta H_{298}^0 = -102.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 51.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.87 + 14.14 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1662 K) [4]		
BH (g)	Borane	BH (g)
$\Delta H_{298}^0 = 442.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 171.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.7 + 4.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [6]		
BHO (g) HBO (g)	Boron Hydride Oxide	BHO (g) HBO (g)
$\Delta H_{298}^0 = -198.3 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 202.6 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BHO₂ (s) HBO ₂ (s)	Metaboric Acid cubic	BHO₂ (s) HBO ₂ (s)
mp = 509 K (236 °C)		
$\Delta H_{298}^0 = -792 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 52.09 + 34.48 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 509 K) [4]		
BHO₂ (g) HBO ₂ (g)	Metaboric Acid	BHO₂ (g) HBO ₂ (g)
$\Delta H_{298}^0 = -560.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 51.76 + 12.01 \cdot 10^{-3} \cdot T - 1.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BHS (g) HBS (g)	Boron Hydride Sulfide	BHS (g) HBS (g)
$\Delta H_{298}^0 = 50.2 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 215 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BH₃ (g)	Borane	BH₃ (g)
$\Delta H_{298}^0 = 106.7 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 187.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BH₃O₃ (s) H ₃ BO ₃ (s)	Boric Acid	BH₃O₃ (s) H ₃ BO ₃ (s)
mp = 444 K (171 °C)		
$\Delta H_{298}^0 = -1094 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 88.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.94 + 109.75 \cdot 10^{-3} \cdot T - 1.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 330 K) [4]		
BH₃O₃ (g) H ₃ BO ₃ (g)	Boric Acid	BH₃O₃ (g) H ₃ BO ₃ (g)
$\Delta H_{298}^0 = -992.3 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 295.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.89 + 30.6 \cdot 10^{-3} \cdot T - 2.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BH₄K (s) KBH ₄ (s)	Potassium Tetrahydroborate	BH₄K (s) KBH ₄ (s)
$\Delta H_{298}^0 = -226.9 \pm 2.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 96.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 106.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BH₄Li (s) LiBH ₄ (s)	Lithium Tetrahydroborate	BH₄Li (s) LiBH ₄ (s)
$\Delta H_{298}^0 = -190.5 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 82.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 75.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BH₄Na (s) NaBH ₄ (s)	Sodium Tetrahydroborate	BH₄Na (s) NaBH ₄ (s)
$\Delta H_{298}^0 = -191.8 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 86.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 101.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BI (g)	Boron(I) Iodide	BI (g)
$\Delta H_{298}^0 = 305.4 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 36.65 + 0.9 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 232.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
BI₂ (g)	Boron(II) Iodide	BI₂ (g)
$\Delta H_{298}^0 = 242.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 55.95 + 1.39 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 309.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BI₃ (s)	Boron(III) Iodide	BI₃ (s)
mp = 323 K (50 °C) $\Delta H_{298}^0 = 16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 92.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p, K) = -3.19 \cdot 10^3 \cdot T^{-1} - 2.55 \cdot \lg(T) + 13.77$ (298 ... 323 K) [4] {Reaction: evaporation}		bp = 482 K (209 °C) $S_{298}^0 = 227.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BI₃ (s)	Boron(III) Iodide	BI₃ (s)
$\Delta H_{323}^0 = 18.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{323}^0 = 234.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BI₃ (l)	Boron(III) Iodide	BI₃ (l)
$\Delta H_{323}^0 = 22.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{323}^0 = 247.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 117.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 K) [4]		
$\lg(p, K) = -3.33 \cdot 10^3 \cdot T^{-1} - 5.08 \cdot \lg(T) + 20.54$ (323 ... 482 K) [4]		
{Reaction: evaporation}		
BI₃ (l)	Boron(III) Iodide	BI₃ (l)
$\Delta H_{482}^0 = 41.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{482}^0 = 294.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BI₃ (g)	Boron(III) Iodide	BI₃ (g)
$\Delta H_{482}^0 = 84.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{482}^0 = 384.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BI₃ (g)	Boron(III) Iodide	BI₃ (g)
$\Delta H_{298}^0 = 71.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 348.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82 + 0.44 \cdot 10^{-3} \cdot T - 1.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BKO₂ (s)	Potassium Borate	BKO₂ (s)
KBO ₂ (s)		KBO ₂ (s)
mp = 1223 K (950 °C)		
$\Delta H_{298}^0 = -995 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 80 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BKO₂ (l)	Potassium Borate	BKO₂ (l)
KBO ₂ (l)		KBO ₂ (l)
$\Delta H_{298}^0 = -980.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 88.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BK₂O₂ (g)	Potassium Borate	BK₂O₂ (g)
KBO ₂ (g)		KBO ₂ (g)

$$\Delta H_{298}^0 = -674 \pm 25 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 297.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.98 + 5.41 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BLiO₂ (s)	Lithium Borate	BLiO₂ (s)
LiBO ₂ (s)		LiBO ₂ (s)

$$\text{mp} = 1118 \text{ K (845 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1019.2 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 51.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 60.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BLiO₂ (l)	Lithium Borate	BLiO₂ (l)
LiBO ₂ (l)		LiBO ₂ (l)

$$\Delta H_{298}^0 = -1000.3 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 65.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 60.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BLiO₂ (g)	Lithium Borate	BLiO₂ (g)
LiBO ₂ (g)		LiBO ₂ (g)

$$\Delta H_{298}^0 = -646.8 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 274.7 \pm 42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.64 + 5.57 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2130 \text{ K}) [4]$$

BMn (s)	Manganese Boride	BMn (s)
MnB (s)		MnB (s)

$$\text{mp} = 2125 \text{ K (1852 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -70.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 42.47 + 15.9 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BMn₂ (s)	Manganese Boride	BMn₂ (s)
Mn ₂ B (s)		Mn ₂ B (s)

$$\text{mp} = 1853 \text{ K (1580 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -91.6 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 66.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 69.04 + 22.8 \cdot 10^{-3} \cdot T - 1.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1853 \text{ K}) [4]$$

BMo (s)	Molybdenum Boride	BMo (s)
MoB (s)		MoB (s)

mp = 2873 K (2600 °C)

$$\Delta H_{298}^0 = -123.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 25.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 45.46 + 5.87 \cdot 10^{-3} \cdot T - 1.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2073 \text{ K}) [4]$$

BN (s)	Boron Nitride	BN (s)
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mp = 3243 K (2970 °C)

$$\Delta H_{298}^0 = -250.9 \pm 1.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 14.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 41.21 + 9.41 \cdot 10^{-3} \cdot T - 2.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BN (g)	Boron Nitride	BN (g)
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$$\Delta H_{298}^0 = 477 \pm 125 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 212.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 30.12 + 4.44 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [6]$$

BNaO₂ (s)	Sodium Borate	BNaO₂ (s)
NaBO ₂ (s)		NaBO ₂ (s)

mp = 1239 K (966 °C)

$$\Delta H_{298}^0 = -975.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 73.5 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 50.63 + 53.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1239 \text{ K}) [3]$$

BNaO₂ (l)	Sodium Borate	BNaO₂ (l)
NaBO ₂ (l)		NaBO ₂ (l)

$$\Delta H_{298}^0 = -960 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1239 \dots 2000 \text{ K}) [3]$$

BNaO₂ (g)	Sodium Borate	BNaO₂ (g)
NaBO ₂ (g)		NaBO ₂ (g)

$$\Delta H_{298}^0 = -648.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 287.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.89 + 5.45 \cdot 10^{-3} \cdot T - 1.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BNi (s)	Nickel Boride	BNi (s)
NiB (s)		NiB (s)

mp = 1308 K (1035 °C)

$$\Delta H_{298}^0 = -46.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 28.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 42.97 + 14.64 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1308 \text{ K}) [4]$$

BNi₂ (s)	Nickel Boride	BNi₂ (s)
Ni ₂ B (s)		Ni ₂ B (s)

mp = 1398 K (1125 °C)

$$\Delta H_{298}^0 = -63.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 66.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.94 + 22.18 \cdot 10^{-3} \cdot T - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1398 \text{ K}) [4]$$

BNi₃ (s)	Nickel Boride	BNi₃ (s)
Ni ₃ B (s)		Ni ₃ B (s)

mp = 1429 K (1156 °C)

$$\Delta H_{298}^0 = -88.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 87.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 95.4 + 26.36 \cdot 10^{-3} \cdot T - 1.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1429 \text{ K}) [4]$$

BO (g)	Boron(II) Oxide	BO (g)
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$$\Delta H_{298}^0 = 0 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 203.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 30.1 + 3.64 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2329 \text{ K}) [4]$$

BO₂ (g)	Boron Oxide	BO₂ (g)
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$$\Delta H_{298}^0 = -284.5 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 229.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 55.35 + 3.57 \cdot 10^{-3} \cdot T - 1.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2329 \text{ K}) [4]$$

BO₂Rb (g)	Rubidium Borate	BO₂Rb (g)
RbBO ₂ (g)		RbBO ₂ (g)

$$\Delta H_{298}^0 = -672.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 308.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 73.95 + 5.41 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BP (s)	Boron Phosphide	BP (s)
$\Delta H_{298}^0 = -115.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 26.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 21.97 + 28.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]		
BS (g)	Boron Sulfide	BS (g)
$\Delta H_{298}^0 = 334.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 216.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 30.43 + 7.72 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} - 2.15 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BS₂ (s)	Boron Sulfide	BS₂ (s)
mp = 690 K (417 °C)		
$\Delta H_{298}^0 = -104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [52.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
BS₂ (g)	Boron Sulfide	BS₂ (g)
$\Delta H_{298}^0 = 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [256.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
BSe (g)	Boron Selenide	BSe (g)
$\Delta H_{298}^0 = 329.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [228.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [35.97] + [0.75] \cdot 10^{-3} \cdot T + [-0.42] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
BTe (g)	Boron Telluride	BTe (g)
TeB (g)		TeB (g)
$\Delta H_{298}^0 = [413.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [236.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [36.64] + [0.41] \cdot 10^{-3} \cdot T + [-0.36] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
BTi (s)	Titanium Boride	BTi (s)
TiB (s)		TiB (s)
$\Delta H_{298}^0 = -160.2 \pm 38 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 34.7 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.06 - 0.04 \cdot 10^{-3} \cdot T - 2.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BV (s)	Vanadium Boride	BV (s)
VB (s)		VB (s)

mp = 2824 K (2551 °C)

$$\Delta H_{298}^0 = -138.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 45.68 + 8.04 \cdot 10^{-3} \cdot T - 1.12 \cdot 10^6 \cdot T^{-2} + 2.28 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BW (s)	Tungsten Boride	BW (s)
WB (s)		WB (s)

mp = 2938 K (2665 °C)

$$\Delta H_{298}^0 = -66.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 33.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 50.42 + 3.1 \cdot 10^{-3} \cdot T - 1.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

BW₂ (s)	Tungsten Boride	BW₂ (s)
W ₂ B (s)		W ₂ B (s)

mp = 2940 K (2667 °C)

$$\Delta H_{298}^0 = -66.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 66.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 77.11 + 6.15 \cdot 10^{-3} \cdot T - 1.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

B₂ (g)	Boron	B₂ (g)
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$$\Delta H_{298}^0 = 829.7 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 202 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 31.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₂Ba₃O₆ (s)	Barium Borate	B₂Ba₃O₆ (s)
3BaO · B ₂ O ₃ (s)		3BaO · B ₂ O ₃ (s)

$$\Delta H_{298}^0 = -2344.2 \pm 5.8 \text{ kJ}\cdot\text{mol}^{-1} [94]$$

$$S_{298}^0 = [270.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [95]$$

$$C_p^0 = [203.28] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

B₂BeO₄ (g)	Beryllium Borate	B₂BeO₄ (g)
BeO · B ₂ O ₃ (g)		BeO · B ₂ O ₃ (g)

$$\Delta H_{298}^0 = -1351 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 326.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 91.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₂Be₃O₆ (s) 3BeO · B ₂ O ₃ (s)	Beryllium Borate	B₂Be₃O₆ (s) 3BeO · B ₂ O ₃ (s)
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mp = 1768 K (1495 °C)

$$\Delta H_{298}^0 = -3134 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 112.55 + 263.26 \cdot 10^{-3} \cdot T - 3.98 \cdot 10^6 \cdot T^{-2} - 88.2 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1768 \text{ K}) [4]$$

B₂CaO₄ (s) CaO · B ₂ O ₃ (s)	Calcium Borate	B₂CaO₄ (s) CaO · B ₂ O ₃ (s)
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mp = 1433 K (1160 °C)

$$\Delta H_{298}^0 = -2030 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 104.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 129.79 + 40.84 \cdot 10^{-3} \cdot T - 3.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1433 \text{ K}) [4]$$

B₂CaO₄ (s) CaO · B ₂ O ₃ (s)	Calcium Borate	B₂CaO₄ (s) CaO · B ₂ O ₃ (s)
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$$\Delta H_{1433}^0 = -1851.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1433}^0 = 336.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

B₂CaO₄ (l) CaO · B ₂ O ₃ (l)	Calcium Borate	B₂CaO₄ (l) CaO · B ₂ O ₃ (l)
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$$\Delta H_{1433}^0 = -1777.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1433}^0 = 388.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 258.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1433 \text{ K}) [4]$$

B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)	Calcium Borate alpha	B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)
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mp = 1583 K (1310 °C)

$$\Delta H_{298}^0 = -2733.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 144.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 183.05 + 48.12 \cdot 10^{-3} \cdot T - 4.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 804 \text{ K}) [4]$$

B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)	Calcium Borate alpha	B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)
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$$\Delta H_{804}^0 = -2637.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{804}^0 = 329 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)	Calcium Borate beta	B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)
$\Delta H_{804}^0 = -2632.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 218.78 + 10.04 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (804 ... 1583 K) [4]		$S_{804}^0 = 334.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)	Calcium Borate beta	B₂Ca₂O₅ (s) 2CaO · B ₂ O ₃ (s)
$\Delta H_{1583}^0 = -2452.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1583}^0 = 490.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂Ca₂O₅ (l) 2CaO · B ₂ O ₃ (l)	Calcium Borate	B₂Ca₂O₅ (l) 2CaO · B ₂ O ₃ (l)
$\Delta H_{1583}^0 = -2352 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 285.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1583 K) [4]		$S_{1583}^0 = 554.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂Ca₃O₆ (s) 3CaO · B ₂ O ₃ (s)	Calcium Borate	B₂Ca₃O₆ (s) 3CaO · B ₂ O ₃ (s)
mp = 1763 K (1490 °C) $\Delta H_{298}^0 = -3429.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 236.15 + 43.6 \cdot 10^{-3} \cdot T - 5.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1763 K) [4]		$S_{298}^0 = 183.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
B₂Ca₃O₆ (s) 3CaO · B ₂ O ₃ (s)	Calcium Borate	B₂Ca₃O₆ (s) 3CaO · B ₂ O ₃ (s)
$\Delta H_{1763}^0 = -3031.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1763}^0 = 637.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂Ca₃O₆ (l) 3CaO · B ₂ O ₃ (l)	Calcium Borate	B₂Ca₃O₆ (l) 3CaO · B ₂ O ₃ (l)
$\Delta H_{1763}^0 = -2883.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 393.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1763 K) [4]		$S_{1763}^0 = 721.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

B₂Cl₄ (g)	Boron(II) Chloride	B₂Cl₄ (g)
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$\Delta H_{298}^0 = -489.1 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 359 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 117.29 + 6.99 \cdot 10^{-3} \cdot T - 2.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₂Cr (s)	Chromium Boride	B₂Cr (s)
CrB ₂ (s)		CrB ₂ (s)

mp = 2473 K (2200 °C)	
$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 32.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.04 + 21.88 \cdot 10^{-3} \cdot T - 1.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₂Cs₂O₄ (s)	Cesium Borate	B₂Cs₂O₄ (s)
Cs ₂ O · B ₂ O ₃ (s)		Cs ₂ O · B ₂ O ₃ (s)

mp = 1005 K (732 °C)	
$\Delta H_{298}^0 = -1944.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 208.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 104.68 + 132.63 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1005 K) [4]	

B₂Cs₂O₄ (s)	Cesium Borate	B₂Cs₂O₄ (s)
Cs ₂ O · B ₂ O ₃ (s)		Cs ₂ O · B ₂ O ₃ (s)

$\Delta H_{1005}^0 = -1810.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1005}^0 = 427.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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B₂Cs₂O₄ (l)	Cesium Borate	B₂Cs₂O₄ (l)
Cs ₂ O · B ₂ O ₃ (l)		Cs ₂ O · B ₂ O ₃ (l)

$\Delta H_{1005}^0 = -1758.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1005}^0 = 479.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1005 K) [4]	

B₂F₄ (g)	Boron(II) Fluoride	B₂F₄ (g)
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$\Delta H_{298}^0 = -1440.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 318.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 101.74 + 16.03 \cdot 10^{-3} \cdot T - 2.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₂F₄O (g)	Boron Oxide Fluoride	B₂F₄O (g)
O(BF ₂) ₂ (g)		O(BF ₂) ₂ (g)

$$\Delta H_{298}^0 = -1898.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 337.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 81.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₂H₄O₄ (s)	Boron Hydroxide	B₂H₄O₄ (s)
(B(OH) ₂) ₂ (s)		(B(OH) ₂) ₂ (s)

$$\Delta H_{298}^0 = -1410.4 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 125.5 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 116.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₂H₄O₄ (g)	Boron Hydroxide	B₂H₄O₄ (g)
(B(OH) ₂) ₂ (g)		(B(OH) ₂) ₂ (g)

$$\Delta H_{298}^0 = -1284.5 \pm 20 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 348.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 103.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₂H₆ (g)	Diborane	B₂H₆ (g)
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$$\text{mp} = 108 \text{ K} (-165 \text{ }^\circ\text{C})$$

$$\text{bp} = 181 \text{ K} (-92 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 41 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 233.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 11.3 + 180.08 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} - 55.31 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

B₂Hf (s)	Hafnium Boride	B₂Hf (s)
HfB ₂ (s)		HfB ₂ (s)

$$\text{mp} = 3643 \text{ K} (3370 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 42.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$\Delta H_{298}^0 = -328.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 73.35 + 7.82 \cdot 10^{-3} \cdot T - 2.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₂K₂O₄ (s)	Potassium Borate	B₂K₂O₄ (s)
K ₂ O · B ₂ O ₃ (s)		K ₂ O · B ₂ O ₃ (s)

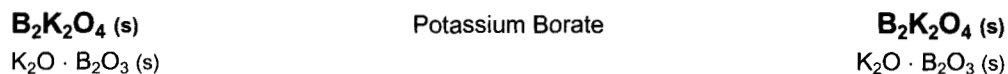
$$\text{mp} = 1220 \text{ K} (947 \text{ }^\circ\text{C})$$

$$\text{bp} = 1673 \text{ K} (1400 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1989.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

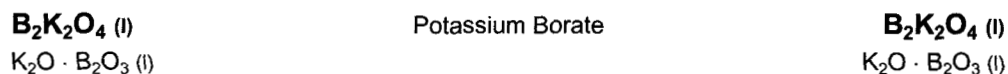
$$S_{298}^0 = 160 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 161.92 + 46.86 \cdot 10^{-3} \cdot T - 3.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1220 \text{ K}) [4]$$



$$\Delta H^0_{1220} = -1817.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

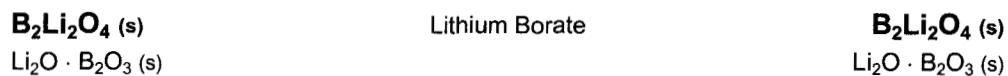
$$S^0_{1220} = 411.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H^0_{1220} = -1754.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{1220} = 463 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1220 \text{ K}) [4]$$



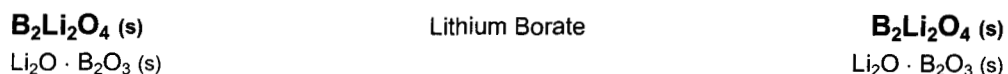
$$\text{mp} = 1117 \text{ K} (844 \text{ }^\circ\text{C})$$

$$\text{bp} = 2130 \text{ K} (1857 \text{ }^\circ\text{C})$$

$$\Delta H^0_{298} = -2038.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

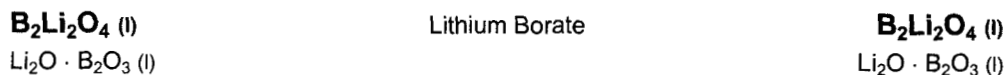
$$S^0_{298} = 103.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 118.83 + 100 \cdot 10^{-3} \cdot T - 2.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1117 \text{ K}) [4]$$



$$\Delta H^0_{1117} = -1889.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

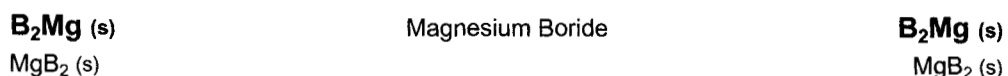
$$S^0_{1117} = 329.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H^0_{1117} = -1805.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{1117} = 404.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 288.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1117 \text{ K}) [4]$$



$$\Delta H^0_{298} = -60.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{298} = 36 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 49.79 + 22.72 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1320 \text{ K}) [4]$$

B₂Mn (s)	Manganese Boride	B₂Mn (s)
MnB ₂ (s)		MnB ₂ (s)

mp = 2100 K (1827 °C)

 $\Delta H_{298}^0 = -94.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 44.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 64.43 + 16.99 \cdot 10^{-3} \cdot T - 2.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2100 K) [4]

B₂Na₂O₄ (s)	Sodium Borate	B₂Na₂O₄ (s)
Na ₂ O · B ₂ O ₃ (s)		Na ₂ O · B ₂ O ₃ (s)

mp = 1240 K (967 °C)

bp = 1748 K (1475 °C)

 $\Delta H_{298}^0 = -1951.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 147 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 159.08 + 47.11 \cdot 10^{-3} \cdot T - 3.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1240 K) [4]

B₂Na₂O₄ (s)	Sodium Borate	B₂Na₂O₄ (s)
Na ₂ O · B ₂ O ₃ (s)		Na ₂ O · B ₂ O ₃ (s)

 $\Delta H_{1240}^0 = -1776.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1240}^0 = 398.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

B₂Na₂O₄ (l)	Sodium Borate	B₂Na₂O₄ (l)
Na ₂ O · B ₂ O ₃ (l)		Na ₂ O · B ₂ O ₃ (l)

 $\Delta H_{1240}^0 = -1705.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1240}^0 = 456 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1240 K) [4]

B₂Nb (s)	Niobium Boride	B₂Nb (s)
NbB ₂ (s)		NbB ₂ (s)

mp = 3250 K (2977 °C)

 $\Delta H_{298}^0 = -175.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 37.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 46.07 + 39.25 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]

B₂O (g)	Boron(I) Oxide	B₂O (g)
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 $\Delta H_{298}^0 = 96 \pm 105 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 227.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 43.32 + 8.48 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2329 K) [4]

B₂O₂ (g) (BO) ₂ (g)	Boron(II) Oxide	B₂O₂ (g) (BO) ₂ (g)
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$\Delta H_{298}^0 = -456.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 242.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70.54 + 7.9 \cdot 10^{-3} \cdot T - 1.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2329 K) [4]	

B₂O₃ (s)	Boron(III) Oxide	B₂O₃ (s)
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mp = 733 K (460 °C)	bp = 2329 K (2056 °C)
$\Delta H_{298}^0 = -1271.9 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 54 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.03 + 73.01 \cdot 10^{-3} \cdot T - 1.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 723 K) [4]	

B₂O₃ (l)	Boron(III) Oxide	B₂O₃ (l)
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$\Delta H_{298}^0 = -1253.4 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 78.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

B₂O₃ (g)	Boron(III) Oxide	B₂O₃ (g)
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$\Delta H_{298}^0 = -836 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 283.8 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 88.01 + 8.93 \cdot 10^{-3} \cdot T - 2.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2329 K) [4]	

B₂O₃ (s)	Boron(III) Oxide amorphous	B₂O₃ (s)
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mp = 723 K (450 °C)	
$\Delta H_{298}^0 = -1253.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 77.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -18.97 + 225.37 \cdot 10^{-3} \cdot T + 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 723 K) [4]	

B₂O₄Pb (s) PbO · B ₂ O ₃ (s)	Lead Borate	B₂O₄Pb (s) PbO · B ₂ O ₃ (s)
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$\Delta H_{298}^0 = -1556 \pm 6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 130.5 \pm 12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

B₂O₄Rb₂ (s) Rb ₂ O · B ₂ O ₃ (s)	Rubidium Borate	B₂O₄Rb₂ (s) Rb ₂ O · B ₂ O ₃ (s)
mp = 1133 K (860 °C) $\Delta H_{298}^0 = -1949.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 116.73 + 101.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1133 K) [4]		bp = 1604 K (1331 °C) $S_{298}^0 = 189.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂O₄Rb₂ (s) Rb ₂ O · B ₂ O ₃ (s)	Rubidium Borate	B₂O₄Rb₂ (s) Rb ₂ O · B ₂ O ₃ (s)
$\Delta H_{1133}^0 = -1791.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1133}^0 = 429.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂O₄Rb₂ (l) Rb ₂ O · B ₂ O ₃ (l)	Rubidium Borate	B₂O₄Rb₂ (l) Rb ₂ O · B ₂ O ₃ (l)
$\Delta H_{1133}^0 = -1730.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1133 K) [4]		$S_{1133}^0 = 483.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂S₂ (g)	Boron Sulfide	B₂S₂ (g)
$\Delta H_{298}^0 = 75.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [267.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
B₂S₃ (s)	Boron(III) Sulfide	B₂S₃ (s)
mp = 836 K (563 °C) $\Delta H_{298}^0 = -252.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 98.03 + 64.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 836 K) [4] $\lg(p,K) = -14.1 \cdot 10^3 \cdot T^{-1} - 5.84 \cdot \lg(T) + 29.59$ (700 ... 836 K) [4] {Reaction: evaporation as B ₂ S ₃ (g)}		bp = 1419 K (1146 °C) $S_{298}^0 = 92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₂S₃ (s)	Boron(III) Sulfide	B₂S₃ (s)
$\Delta H_{836}^0 = -180 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{836}^0 = 227.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

B₂S₃ (l)	Boron(III) Sulfide	B₂S₃ (l)
$\Delta H_{836}^0 = -131.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{836}^0 = 285.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 151.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (836 K) [4]		
$\lg(p, K) = -11.61 \cdot 10^3 \cdot T^{-1} - 5.95 \cdot \lg(T) + 26.94$ (836 ... 1419 K) [4]		
{Reaction: evaporation as B ₂ S ₃ (g)}		
B₂S₃ (g)	Boron(III) Sulfide	B₂S₃ (g)
$\Delta H_{298}^0 = -1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 323.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.65 + 6.4 \cdot 10^{-3} \cdot T - 1.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
B₂S₄ (g)	Boron Sulfide	B₂S₄ (g)
$\Delta H_{298}^0 = -112.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 234.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
B₂Ta (s)	Tantalum Boride	B₂Ta (s)
TaB ₂ (s)		TaB ₂ (s)
$\Delta H_{298}^0 = -209.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 44.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 59.45 + 18.79 \cdot 10^{-3} \cdot T - 1.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3370 K) [3]		
B₂Ti (s)	Titanium Boride	B₂Ti (s)
TiB ₂ (s)		TiB ₂ (s)
mp = 3498 K (3225 °C)		
$\Delta H_{298}^0 = -315.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 28.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.38 + 25.86 \cdot 10^{-3} \cdot T - 1.75 \cdot 10^6 \cdot T^{-2} - 3.35 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
B₂Ti (l)	Titanium Boride	B₂Ti (l)
TiB ₂ (l)		TiB ₂ (l)
$\Delta H_{298}^0 = -188 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 56.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

B₂U (s)	Uranium Boride	B₂U (s)
UB ₂ (s)		UB ₂ (s)

mp = 2658 K (2385 °C)

$$\Delta H_{298}^0 = -161.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 55.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 107.03 - 40.25 \cdot 10^{-3} \cdot T - 3.55 \cdot 10^6 \cdot T^{-2} + 24.52 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

B₂V (s)	Vanadium Boride	B₂V (s)
VB ₂ (s)		VB ₂ (s)

mp = 3023 K (2750 °C)

$$\Delta H_{298}^0 = -203.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 30.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 64.56 + 16.2 \cdot 10^{-3} \cdot T - 2.05 \cdot 10^6 \cdot T^{-2} + 0.93 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₂V₃ (s)	Vanadium Boride	B₂V₃ (s)
V ₃ B ₂ (s)		V ₃ B ₂ (s)

mp = 2198 K (1925 °C)

$$\Delta H_{298}^0 = -331 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 86.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 137.04 + 15.93 \cdot 10^{-3} \cdot T - 2.62 \cdot 10^6 \cdot T^{-2} + 8.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₂Zr (s)	Zirconium Boride	B₂Zr (s)
ZrB ₂ (s)		ZrB ₂ (s)

mp = 3273 K (3000 °C)

$$\Delta H_{298}^0 = -322.6 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 35.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 62.81 + 14.31 \cdot 10^{-3} \cdot T - 1.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₂Zr (l)	Zirconium Boride	B₂Zr (l)
ZrB ₂ (l)		ZrB ₂ (l)

$$\Delta H_{298}^0 = -224.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 64.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 48.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₃Cl₃O₃ (g) (BOCl) ₃ (g)	Boron Chloride Oxide	B₃Cl₃O₃ (g) (BOCl) ₃ (g)
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$\Delta H_{298}^0 = -1631.8 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 382.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 186.61 + 10.94 \cdot 10^{-3} \cdot T - 5.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₃Cr₅ (s) Cr ₅ B ₃ (s)	Chromium Boride	B₃Cr₅ (s) Cr ₅ B ₃ (s)
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mp = 2173 K (1900 °C)	
$\Delta H_{298}^0 = -248.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 137.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 153.13 + 79.08 \cdot 10^{-3} \cdot T - 3.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₃FH₂O₃ (g) B ₃ H ₂ O ₃ F (g)	Fluoroboroxin	B₃FH₂O₃ (g) B ₃ H ₂ O ₃ F (g)
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$\Delta H_{298}^0 = -1598.3 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 314.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 95.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

B₃F₂HO₃ (g) B ₃ HO ₃ F ₂ (g)	Difluoroboroxin	B₃F₂HO₃ (g) B ₃ HO ₃ F ₂ (g)
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$\Delta H_{298}^0 = -1987.4 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 329 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 103.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

B₃F₃O₃ (s) (BOF) ₃ (s)	Boron Oxide Fluoride	B₃F₃O₃ (s) (BOF) ₃ (s)
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$\Delta H_{298}^0 = -2453.9 \pm 12 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 125.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

B₃F₃O₃ (g) (BOF) ₃ (g)	Boron Oxide Fluoride	B₃F₃O₃ (g) (BOF) ₃ (g)
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$\Delta H_{298}^0 = -2365.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 342.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 173.68 + 17.3 \cdot 10^{-3} \cdot T - 6.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

B₃H₃O₃ (s) (BOH) ₃ (s)	Boroxin	B₃H₃O₃ (s) (BOH) ₃ (s)
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bp = 356 K (83 °C)

$$\Delta H_{298}^0 = -1262.3 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 167.4 \pm 42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 30.61 + 221.17 \cdot 10^{-3} \cdot T + 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 356 \text{ K}) [4]$$

B₃H₃O₃ (g) (BOH) ₃ (g)	Boroxin	B₃H₃O₃ (g) (BOH) ₃ (g)
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$$\Delta H_{298}^0 = -1217.5 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 291.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 140.79 + 31.62 \cdot 10^{-3} \cdot T - 6.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₃H₃O₆ (g) (HBO ₂) ₃ (g)	Boric Acid	B₃H₃O₆ (g) (HBO ₂) ₃ (g)
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$$\Delta H_{298}^0 = -2271.9 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 347.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 137.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₃H₆N₃ (g)	Borazine	B₃H₆N₃ (g)
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$$\Delta H_{298}^0 = -510 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 288.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 128.49 + 89.62 \cdot 10^{-3} \cdot T - 5.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [6]$$

B₃NaO₅ (s) NaB ₃ O ₅ (s)	Sodium Borate	B₃NaO₅ (s) NaB ₃ O ₅ (s)
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$$\Delta H_{298}^0 = -2290.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 116.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 121.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

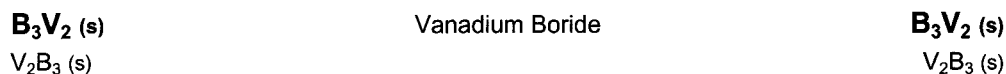
B₃Ni₄ (s) Ni ₄ B ₃ (s)	Niobium Boride	B₃Ni₄ (s) Ni ₄ B ₃ (s)
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mp = 1304 K (1031 °C)

$$\Delta H_{298}^0 = -179.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 110.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 156.06 + 49.16 \cdot 10^{-3} \cdot T - 3.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1304 \text{ K}) [4]$$



mp = 2926 K (2653 °C)

$$\Delta H_{298}^0 = -345.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 59.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 110.24 + 24.23 \cdot 10^{-3} \cdot T - 2.4 \cdot 10^6 \cdot T^{-2} + 3.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



mp = 2743 K (2470 °C)

$$\Delta H_{298}^0 = -62.7 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 27.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

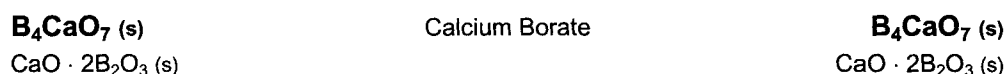
$$C_p^0 = 96.52 + 21.92 \cdot 10^{-3} \cdot T - 4.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = 51.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 69.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 53.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

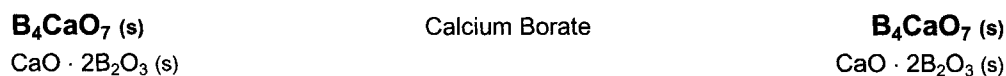


mp = 1263 K (990 °C)

$$\Delta H_{298}^0 = -3358.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

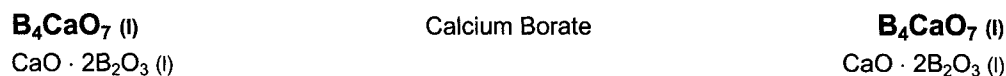
$$S_{298}^0 = 134.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 214.81 + 80.17 \cdot 10^{-3} \cdot T - 7.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1263 \text{ K}) [4]$$



$$\Delta H_{1263}^0 = -3109.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1263}^0 = 484 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

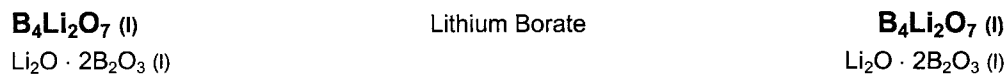


$$\Delta H_{1263}^0 = -2995.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1263}^0 = 573.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 444.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1263 \text{ K}) [4]$$

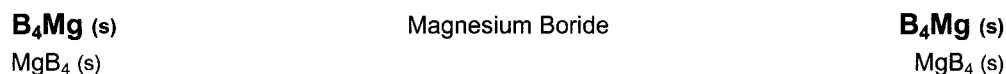
B₄Cr₃ (s) Cr ₃ B ₄ (s)	Chromium Boride	B₄Cr₃ (s) Cr ₃ B ₄ (s)
mp = 2343 K (2070 °C)		
$\Delta H_{298}^0 = -281.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 91.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 134.31 + 57.74 \cdot 10^{-3} \cdot T - 3.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
B₄K₂O₇ (s) K ₂ O · 2B ₂ O ₃ (s)	Potassium Borate	B₄K₂O₇ (s) K ₂ O · 2B ₂ O ₃ (s)
mp = 1089 K (816 °C)		
$\Delta H_{298}^0 = -3326.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 208.4 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 138.57 + 279.58 \cdot 10^{-3} \cdot T - 3.55 \cdot 10^6 \cdot T^{-2} - 131.75 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1089 K) [4]		
B₄K₂O₇ (s) K ₂ O · 2B ₂ O ₃ (s)	Potassium Borate	B₄K₂O₇ (s) K ₂ O · 2B ₂ O ₃ (s)
$\Delta H_{1089}^0 = -3127.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1089}^0 = 518.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
B₄K₂O₇ (l) K ₂ O · 2B ₂ O ₃ (l)	Potassium Borate	B₄K₂O₇ (l) K ₂ O · 2B ₂ O ₃ (l)
$\Delta H_{1089}^0 = -3023.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1089}^0 = 613.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 380.54 + 77.2 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1089 ... 2000 K) [4]		
B₄Li₂O₇ (s) Li ₂ O · 2B ₂ O ₃ (s)	Lithium Borate	B₄Li₂O₇ (s) Li ₂ O · 2B ₂ O ₃ (s)
mp = 1190 K (917 °C)		
$\Delta H_{298}^0 = -3362.3 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 155.6 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 158.81 + 144.11 \cdot 10^{-3} \cdot T - 2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1190 K) [4]		
B₄Li₂O₇ (s) Li ₂ O · 2B ₂ O ₃ (s)	Lithium Borate	B₄Li₂O₇ (s) Li ₂ O · 2B ₂ O ₃ (s)
$\Delta H_{1190}^0 = -3130.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1190}^0 = 493.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]



$$\Delta H_{1190}^0 = -3009.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1190}^0 = 594.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

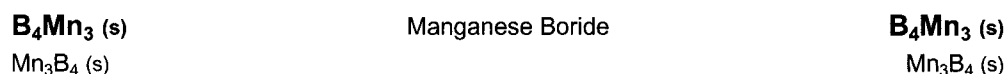
$$C_p^0 = 438.11 + 25.36 \cdot 10^{-3} \cdot T - 0.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1190 \dots 2000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -105 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 51.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.52 + 47.77 \cdot 10^{-3} \cdot T - 1.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1300 \text{ K}) [4]$$

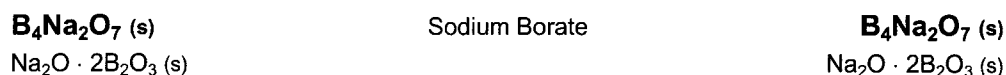


$$\text{mp} = 2100 \text{ K} (1827 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -236.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 122.59 + 44.77 \cdot 10^{-3} \cdot T - 5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2100 \text{ K}) [4]$$

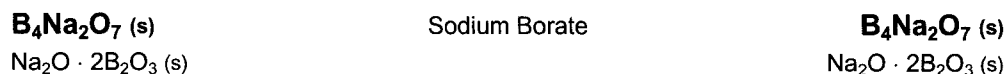


$$\text{mp} = 1016 \text{ K} (743 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -3284.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

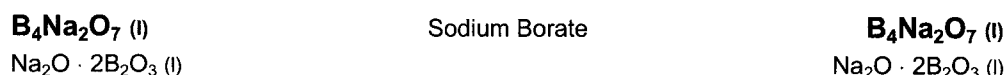
$$S_{298}^0 = 189.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 206.1 + 77.11 \cdot 10^{-3} \cdot T - 3.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1016 \text{ K}) [4]$$



$$\Delta H_{1016}^0 = -3109.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1016}^0 = 478.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H_{1016}^0 = -3028.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1016}^0 = 558.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 444.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1016 \text{ K}) [4]$$

B₄O₇Pb (s)	Lead Borate	B₄O₇Pb (s)
PbO · 2B ₂ O ₃ (s)		PbO · 2B ₂ O ₃ (s)

mp = 1041 K (768 °C)

 $\Delta H_{298}^0 = -2857.7 \pm 6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 166.9 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 281.7 + 52.58 \cdot 10^{-3} \cdot T - 12.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1041 K) [4]

B₄S₆ (g)	Boron Sulfide	B₄S₆ (g)
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 $\Delta H_{298}^0 = -197.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = 458.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

B₄S₈ (g)	Boron Sulfide	B₄S₈ (g)
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 $\Delta H_{298}^0 = -96.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = 585.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

B₄U (s)	Uranium Boride	B₄U (s)
UB ₄ (s)		UB ₄ (s)

mp = 2768 K (2495 °C)

 $\Delta H_{298}^0 = -243 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 112.13 + 29.08 \cdot 10^{-3} \cdot T - 3.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]

B₄V₃ (s)	Vanadium Boride	B₄V₃ (s)
V ₃ B ₄ (s)		V ₃ B ₄ (s)

mp = 2913 K (2640 °C)

 $\Delta H_{298}^0 = -486.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 155.92 + 32.27 \cdot 10^{-3} \cdot T - 4.29 \cdot 10^6 \cdot T^{-2} + 5.5 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

B₅H₉ (l)	Pentaborane	B₅H₉ (l)
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mp = 226 K (-47 °C)

 $\Delta H_{298}^0 = 42.8 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 184.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 328.99 - 191.34 \cdot 10^{-3} \cdot T - 10.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 335 K) [4] $\lg(p, K) = -2.68 \cdot 10^3 \cdot T^{-1} - 8.48 \cdot \lg(T) + 29.42$ (298 ... 335 K) [4]

{Reaction: evaporation}

B₅H₉ (g)	Pentaborane	B₅H₉ (g)
$\Delta H_{298}^0 = 73.2 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 275.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 190.06 + 67.24 \cdot 10^{-3} \cdot T - 12.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
B₆Ce (s)	Cerium Boride	B₆Ce (s)
CeB ₆ (s)		CeB ₆ (s)
$\Delta H_{298}^0 = -338.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 74.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 103.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
B₆K₂O₁₀ (s)	Potassium Borate	B₆K₂O₁₀ (s)
K ₂ O · 3B ₂ O ₃ (s)		K ₂ O · 3B ₂ O ₃ (s)
mp = 1098 K (825 °C)		
$\Delta H_{298}^0 = -4633.5 \pm 10.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 204.11 + 205.35 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1098 K) [4]		
B₆Li₂O₁₀ (s)	Lithium Borate	B₆Li₂O₁₀ (s)
Li ₂ O · 3B ₂ O ₃ (s)		Li ₂ O · 3B ₂ O ₃ (s)
mp = 1107 K (834 °C)		
$\Delta H_{298}^0 = -4650.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 188.3 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 311.81 + 89.64 \cdot 10^{-3} \cdot T - 4.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1107 K) [4]		
B₆Na₂O₁₀ (s)	Sodium Borate	B₆Na₂O₁₀ (s)
Na ₂ O · 3B ₂ O ₃ (s)		Na ₂ O · 3B ₂ O ₃ (s)
mp = 1039 K (766 °C)		
$\Delta H_{298}^0 = -4598.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 232.2 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.8 + 564.61 \cdot 10^{-3} \cdot T + 0.94 \cdot 10^6 \cdot T^{-2} - 191.68 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1039 K) [4]		
B₆O₁₀Pb (s)	Lead Borate	B₆O₁₀Pb (s)
PbO · 3B ₂ O ₃ (s)		PbO · 3B ₂ O ₃ (s)
$\Delta H_{298}^0 = -4196.6 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 203.3 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 230.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

B₆V₅ (s)	Vanadium Boride	B₆V₅ (s)
V ₅ B ₆ (s)		V ₅ B ₆ (s)

$$\Delta H_{298}^0 = -763.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 147.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 247.28 + 48.33 \cdot 10^{-3} \cdot T - 6.54 \cdot 10^6 \cdot T^{-2} + 10.07 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

B₈K₂O₁₃ (s)	Potassium Borate	B₈K₂O₁₃ (s)
K ₂ O · 4B ₂ O ₃ (s)		K ₂ O · 4B ₂ O ₃ (s)

mp = 1130 K (857 °C)

$$\Delta H_{298}^0 = -5945.1 \pm 5.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 293.7 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 308.36 + 239.53 \cdot 10^{-3} \cdot T - 5.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1130 \text{ K}) [4]$$

B₈K₂O₁₃ (s)	Potassium Borate	B₈K₂O₁₃ (s)
K ₂ O · 4B ₂ O ₃ (s)		K ₂ O · 4B ₂ O ₃ (s)

$$\Delta H_{1130}^0 = -5559.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1130}^0 = 875.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

B₈K₂O₁₃ (l)	Potassium Borate	B₈K₂O₁₃ (l)
K ₂ O · 4B ₂ O ₃ (l)		K ₂ O · 4B ₂ O ₃ (l)

$$\Delta H_{1130}^0 = -5409.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1130}^0 = 1008.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 661.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1130 \text{ K}) [4]$$

B₈Li₂O₁₃ (s)	Lithium Borate	B₈Li₂O₁₃ (s)
Li ₂ O · 4B ₂ O ₃ (s)		Li ₂ O · 4B ₂ O ₃ (s)

mp = 908 K (635 °C)

$$\Delta H_{298}^0 = -5914.4 \pm 6.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 265.3 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 425.53 + 98.5 \cdot 10^{-3} \cdot T - 11.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 908 \text{ K}) [4]$$

B₈Na₂O₁₃ (s)	Sodium Borate	B₈Na₂O₁₃ (s)
Na ₂ O · 4B ₂ O ₃ (s)		Na ₂ O · 4B ₂ O ₃ (s)

mp = 1089 K (816 °C)

$$\Delta H_{298}^0 = -5902.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 345.18 + 226.35 \cdot 10^{-3} \cdot T - 9.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1089 \text{ K}) [4]$$

B₁₀H₁₄ (s)	Decaborane	B₁₀H₁₄ (s)
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mp = 372 K (99 °C)

$$\Delta H_{298}^0 = -28.9 \pm 19 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 176.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 782.3 - 694.837 \cdot 10^{-3} \cdot T - 31.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 372 \text{ K}) [4]$$

$$\lg(p, K) = -4.88 \cdot 10^3 \cdot T^{-1} - 7.06 \cdot \lg(T) + 29.68 (298 \dots 372 \text{ K}) [4]$$

{Reaction: evaporation}

B₁₀H₁₄ (l)	Decaborane	B₁₀H₁₄ (l)
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$$\Delta H_{298}^0 = -7.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 234.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 221.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

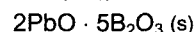
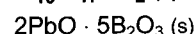
B₁₀H₁₄ (g)	Decaborane	B₁₀H₁₄ (g)
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$$\Delta H_{298}^0 = 47.3 \pm 18.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 352.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 365.28 + 102.59 \cdot 10^{-3} \cdot T - 22.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

B₁₀O₁₇Pb₂ (s)	Lead Borate	B₁₀O₁₇Pb₂ (s)
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$$\Delta H_{298}^0 = -7087.7 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 352.7 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 406.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

B₁₂U (s)	Uranium Boride	B₁₂U (s)
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mp = 2508 K (2235 °C)

$$\Delta H_{298}^0 = -397 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 139.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 308.57 + 15.31 \cdot 10^{-3} \cdot T - 12.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Ba (s)	Barium	Ba (s)
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mp = 1002 K (729 °C)

bp = 2167 K (1894 °C)

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 62.5 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 13.26 + 52.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 648 \text{ K}) [4]$$

$$\lg(p, K) = -9.87 \cdot 10^3 \cdot T^{-1} - 2.44 \cdot \lg(T) + 12.9 (700 \dots 1002 \text{ K}) [4]$$

{Reaction: evaporation}

Ba (s)	Barium	Ba (s)
$\Delta H_{1002}^0 = 27.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1002}^0 = 108.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ba (l)	Barium	Ba (l)
$\Delta H_{1002}^0 = 35.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1002}^0 = 116.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 43.1 - 1.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1002 ... 2167 K) [4]		
$\lg(p,K) = -9.11 \cdot 10^3 \cdot T^{-1} - 1.84 \cdot \lg(T) + 10.34$ (1002 ... 2167 K) [4]		
{Reaction: evaporation}		
Ba (l)	Barium	Ba (l)
$\Delta H_{298}^0 = 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 66.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.1 - 1.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1002 ... 2167 K) [4]		
Ba (g)	Barium	Ba (g)
$\Delta H_{298}^0 = 179.1 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 170.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BaBr (g)	Barium(I) Bromide	BaBr (g)
$\Delta H_{298}^0 = -110.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 270.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.38 + 0.57 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BaBr₂ (s)	Barium(II) Bromide	BaBr₂ (s)
mp = 1130 K (857 °C)		bp = 2108 K (1835 °C)
$\Delta H_{298}^0 = -757.3 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 75.02 + 16.18 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1130 K) [4]		
$\lg(p,K) = -17.4 \cdot 10^3 \cdot T^{-1} - 4.08 \cdot \lg(T) + 22.62$ (900 ... 1130 K) [4]		
{Reaction: evaporation (total pressure)}		
BaBr₂ (s)	Barium(II) Bromide	BaBr₂ (s)
$\Delta H_{1130}^0 = -685.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1130}^0 = 258.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BaBr₂ (l)	Barium(II) Bromide	BaBr₂ (l)
$\Delta H_{1130}^0 = -653.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1130}^0 = 287.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.86 + 17.4 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1130 ... 2108 K) [4]		
$\lg(p,K) = -16.71 \cdot 10^3 \cdot T^{-1} - 5.99 \cdot \lg(T) + 27.84$ (1130 ... 2108 K) [4]		
{Reaction: evaporation (total pressure)}		
BaBr₂ (l)	Barium(II) Bromide	BaBr₂ (l)
$\Delta H_{298}^0 = -730.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 172.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BaBr₂ (g)	Barium(II) Bromide	BaBr₂ (g)
$\Delta H_{298}^0 = -439.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 342.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.19 + 0.01 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2108 K) [4]		
BaCO₃ (s)	Barium Carbonate alpha	BaCO₃ (s)
$\Delta H_{298}^0 = -1197.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 112.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 86.9 + 48.95 \cdot 10^{-3} \cdot T - 1.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1079 K) [4]		
$\lg(p,K) = -14.06 \cdot 10^3 \cdot T^{-1} - 2.58 \cdot \lg(T) + 17.28$ (800 ... 1079 K) [4]		
{Reaction: decomposition BaCO ₃ (s) = BaO(s) + CO ₂ (g)}		
BaCO₃ (s)	Barium Carbonate alpha	BaCO₃ (s)
$\Delta H_{1079}^0 = -1106.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1079}^0 = 255.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BaCO₃ (s)	Barium Carbonate beta	BaCO₃ (s)
$\Delta H_{1079}^0 = -1087.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1079}^0 = 273.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1079 K) [4]		
$\lg(p,K) = -14.18 \cdot 10^3 \cdot T^{-1} - 4.98 \cdot \lg(T) + 24.68$ (1079 ... 1241 K) [4]		
{Reaction: decomposition BaCO ₃ (s) = BaO(s) + CO ₂ (g)}		

BaCO₃ (s)	Barium Carbonate beta	BaCO₃ (s)
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$$\Delta H_{1241}^0 = -1062.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1241}^0 = 295 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BaCO₃ (s)	Barium Carbonate gamma	BaCO₃ (s)
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$$\Delta H_{1241}^0 = -1059.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1241}^0 = 297.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1241 \text{ K}) [4]$$

$$\lg(p, K) = -14.33 \cdot 10^3 \cdot T^{-1} - 5.54 \cdot \lg(T) + 26.52 (1241 \dots 1646 \text{ K}) [4]$$

{Reaction: decomposition BaCO₃(s) = BaO(s) + CO₂(g)}

BaC₂ (s)	Barium Carbide	BaC₂ (s)
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$$\Delta H_{298}^0 = -74.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 73.64 + 3.77 \cdot 10^{-3} \cdot T - 0.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

BaCeO₃ (s)	Barium Cerium Oxide	BaCeO₃ (s)
BaO · CeO ₂ (s)		BaO · CeO ₂ (s)

$$\Delta H_{298}^0 = -1690 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1} [109]$$

$$S_{298}^0 = [134.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [110]$$

$$C_p^0 = [108.31] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

BaCl (g)	Barium(I) Chloride	BaCl (g)
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$$\Delta H_{298}^0 = -142.3 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 258.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.27 + 0.7 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BaCl₂ (s)	Barium(II) Chloride alpha	BaCl₂ (s)
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$$\text{mp} = 1235 \text{ K} (962 \text{ }^\circ\text{C})$$

$$\text{bp} = 2300 \text{ K} (2027 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -858.6 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 123.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 66.37 + 23.47 \cdot 10^{-3} \cdot T + 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1198 \text{ K}) [4]$$

$$\lg(p, K) = -19.69 \cdot 10^3 \cdot T^{-1} - 4.12 \cdot \lg(T) + 23.24 (1000 \dots 1198 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

BaCl₂ (s)	Barium(II) Chloride alpha	BaCl₂ (s)
$\Delta H^0_{1198} = -782.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1198} = 237.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BaCl₂ (s)	Barium(II) Chloride beta	BaCl₂ (s)
$\Delta H^0_{1198} = -765.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1198} = 252.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 123.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1198 K) [4]		
$\lg(p,K) = -20.77 \cdot 10^3 \cdot T^{-1} - 7.91 \cdot \lg(T) + 35.81$ (1198 ... 1235 K) [4]		
{Reaction: evaporation (total pressure)}		
BaCl₂ (s)	Barium(II) Chloride beta	BaCl₂ (s)
$\Delta H^0_{1235} = -761.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1235} = 255.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BaCl₂ (l)	Barium(II) Chloride	BaCl₂ (l)
$\Delta H^0_{1235} = -745.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1235} = 268.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1235 K) [4]		
$\lg(p,K) = -18.96 \cdot 10^3 \cdot T^{-1} - 6.08 \cdot \lg(T) + 28.68$ (1235 ... 2000 K) [4]		
{Reaction: evaporation (total pressure)}		
BaCl₂ (l)	Barium(II) Chloride	BaCl₂ (l)
$\Delta H^0_{298} = -832.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 143.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 75.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BaCl₂ (g)	Barium(II) Chloride	BaCl₂ (g)
$\Delta H^0_{298} = -498.7 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 325.7 \pm 5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.13 + 0.04 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BaCrO₄ (s)	Barium Chromate	BaCrO₄ (s)
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$$\Delta H_{298}^0 = -1446 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 120.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 158.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

BaCuO₂ (s)	Barium Copper Oxide	BaCuO₂ (s)
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$$\Delta H_{298}^0 = -772.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [87]$$

$$C_p^0 = [89.04] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

$$S_{298}^0 = [115] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [88]$$

BaF (g)	Barium(I) Fluoride	BaF (g)
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$$\Delta H_{298}^0 = -322.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 37.05 + 0.66 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 246.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BaF₂ (s)	Barium(II) Fluoride	BaF₂ (s)
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$$\text{mp} = 1553 \text{ K} (1280 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1215.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 29.03 + 76.95 \cdot 10^{-3} \cdot T + 1.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1310 \text{ K}) [4]$$

$$\lg(p, K) = -23.74 \cdot 10^3 \cdot T^{-1} - 8.28 \cdot \lg(T) + 37.68 (1200 \dots 1310 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

$$\text{bp} = 2410 \text{ K} (2137 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 96.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BaF₂ (l)	Barium(II) Fluoride	BaF₂ (l)
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$$\Delta H_{298}^0 = -1171.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 72.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BaF₂ (g)	Barium(II) Fluoride	BaF₂ (g)
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$$\Delta H_{298}^0 = -812.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 57.8 + 0.25 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 301.3 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BaHO (g) BaOH (g)	Barium Hydroxide	BaHO (g) BaOH (g)
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$$\Delta H_{298}^0 = -226.4 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 46.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 252.9 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BaH₂ (s)	Barium Hydride	BaH₂ (s)
$\Delta H_{298}^0 = -178.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 64.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.24 + 17.15 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1002 K) [4]		
$\lg(p,K) = -9.08 \cdot 10^3 \cdot T^{-1} + 2.36 \cdot \lg(T) - 0.08$ (600 ... 1002 K) [4]		
{Reaction: decomposition BaH ₂ (s) = Ba(s) + H ₂ (g)}		

BaH₂O₂ (s)	Barium Hydroxide	BaH₂O₂ (s)
Ba(OH) ₂ (s)		Ba(OH) ₂ (s)
mp = 681 K (408 °C)		
$\Delta H_{298}^0 = -946.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 107.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 114.58 + 22.07 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 681 K) [4]		
$\lg(p,K) = -8.69 \cdot 10^3 \cdot T^{-1} - 3.72 \cdot \lg(T) + 18.97$ (500 ... 681 K) [4]		
{Reaction: decomposition Ba(OH) ₂ (s) = BaO(s) + H ₂ O(g)}		

BaH₂O₂ (s)	Barium Hydroxide	BaH₂O₂ (s)
Ba(OH) ₂ (s)		Ba(OH) ₂ (s)
$\Delta H_{681}^0 = -901.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{681}^0 = 202.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BaH₂O₂ (l)	Barium Hydroxide	BaH₂O₂ (l)
Ba(OH) ₂ (l)		Ba(OH) ₂ (l)
$\Delta H_{681}^0 = -884.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{681}^0 = 226.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 138.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (681 K) [4]		
$\lg(p,K) = -8.09 \cdot 10^3 \cdot T^{-1} - 4.77 \cdot \lg(T) + 21.06$ (681 ... 1305 K) [4]		
{Reaction: decomposition Ba(OH) ₂ (s) = BaO(s) + H ₂ O(g)}		

BaH₂O₂ (l)	Barium Hydroxide	BaH₂O₂ (l)
Ba(OH) ₂ (l)		Ba(OH) ₂ (l)
$\Delta H_{298}^0 = -934.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 101.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BaH₂O₂ (g)	Barium Hydroxide	BaH₂O₂ (g)
Ba(OH) ₂ (g)		Ba(OH) ₂ (g)

$$\Delta H_{298}^0 = -626.6 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 315 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 85.5 + 7.96 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -16.7 \cdot 10^3 \cdot T^{-1} - 5.31 \cdot \lg(T) + 25.54 (900 \dots 1305 \text{ K}) [4]$$

{Reaction: decomposition Ba(OH)₂(s) = BaO(s) + H₂O(g)}

BaHfO₃ (s)	Barium Hafnate	BaHfO₃ (s)
BaO · HfO ₂ (s)		BaO · HfO ₂ (s)

$$\Delta H_{298}^0 = -1789.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 123.85 + 13.39 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

Bal (g)	Barium(I) Iodide	Bal (g)
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$$\Delta H_{298}^0 = -42.4 \pm 84 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 278.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.4 + 0.59 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Bal₂ (s)	Barium(II) Iodide	Bal₂ (s)
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mp = 984 K (711 °C) bp = 2118 K (1845 °C)

$$\Delta H_{298}^0 = -602.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 165.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 73.76 + 18 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 984 \text{ K}) [4]$$

$$\lg(p, K) = -15.54 \cdot 10^3 \cdot T^{-1} - 3.9 \cdot \lg(T) + 21.33 (900 \dots 984 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

Bal₂ (s)	Barium(II) Iodide	Bal₂ (s)
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$$\Delta H_{984}^0 = -543.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{984}^0 = 264.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Bal₂ (l)	Barium(II) Iodide	Bal₂ (l)
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$$\Delta H_{984}^0 = -517.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{984}^0 = 291.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (984 \text{ K}) [4]$$

$$\lg(p, K) = -15.31 \cdot 10^3 \cdot T^{-1} - 6.59 \cdot \lg(T) + 29.14 (984 \dots 2118 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

BaI₂ (l)	Barium(II) Iodide	BaI₂ (l)
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$$\Delta H_{298}^0 = -585.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 183.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 77.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BaI₂ (g)	Barium(II) Iodide	BaI₂ (g)
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$$\Delta H_{298}^0 = -318.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 348.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 58.19 + 0.01 \cdot 10^{-3} \cdot T - 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 - 2122 \text{ K}) [4]$$

BaMoO₃ (s)	Barium Molybdenum Oxide	BaMoO₃ (s)
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BaO · MoO₂ (s)

BaO · MoO₂ (s)

$$\Delta H_{298}^0 = -1235 \text{ kJ}\cdot\text{mol}^{-1} [179]$$

$$S_{298}^0 = [118.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [180]$$

$$C_p^0 = [102.68] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

BaMoO₄ (s)	Barium Molybdate	BaMoO₄ (s)
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mp = 1723 K (1450 °C)

$$\Delta H_{298}^0 = -1501.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 146.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 135.27 + 28.45 \cdot 10^{-3} \cdot T - 2.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1700 \text{ K}) [4]$$

BaN₂O₆ (s)	Barium Nitrate	BaN₂O₆ (s)
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Ba(NO₃)₂ (s)

Ba(NO₃)₂ (s)

mp = 865 K (592 °C)

$$\Delta H_{298}^0 = -992.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 213.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 125.73 + 149.37 \cdot 10^{-3} \cdot T - 1.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 865 \text{ K}) [4]$$

BaO (s)	Barium Oxide	BaO (s)
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mp = 2286 K (2013 °C)

bp = 3365 K (3092 °C)

$$\Delta H_{298}^0 = -548.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 72.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 50.56 + 7.02 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2286 \text{ K}) [4]$$

BaO (s)	Barium Oxide	BaO (s)
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$$\Delta H_{2286}^0 = -431.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{2286}^0 = 186.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BaO (l)	Barium Oxide	BaO (l)
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$$\Delta H_{2286}^0 = -372.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{2286}^0 = 211.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2286 \text{ K}) [4]$$

BaO (l)	Barium Oxide	BaO (l)
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$$\Delta H_{298}^0 = -491.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 96.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BaO (g)	Barium Oxide	BaO (g)
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$$\Delta H_{298}^0 = -123.8 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 235.5 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.32 + 0.93 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [4]$$

BaO₂ (s)	Barium Peroxide	BaO₂ (s)
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$$\Delta H_{298}^0 = -642.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 62.34 + 28.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 - 1069 \text{ K}) [4]$$

$$\lg(p, K) = -10.46 \cdot 10^3 \cdot T^{-1} - 3.26 \cdot \lg(T) + 19.66 (600 \dots 1069 \text{ K}) [4]$$

{Reaction: decomposition $2\text{BaO}_2(\text{s}) = 2\text{BaO}(\text{s}) + \text{O}_2(\text{g})$ }

BaO₃Pr (s)	Barium Praseodymium Oxide	BaO₃Pr (s)
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BaO · PrO₂ (s)

BaO · PrO₂ (s)

$$\Delta H_{298}^0 = -1669.5 \text{ kJ}\cdot\text{mol}^{-1} [179]$$

$$S_{298}^0 = [152] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [183]$$

$$C_p^0 = [119.65] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

BaO₃Pu (s)	Barium Plutonium Oxide	BaO₃Pu (s)
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BaO · PuO₂ (s)

BaO · PuO₂ (s)

$$\Delta H_{298}^0 = -1655.9 \text{ kJ}\cdot\text{mol}^{-1} [179]$$

$$S_{298}^0 = [138.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [185]$$

$$C_p^0 = [113.04] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

BaO₃Si (s)	Barium Silicate	BaO₃Si (s)
BaO · SiO ₂ (s)		BaO · SiO ₂ (s)

mp = 1878 K (1605 °C)

 $\Delta H_{298}^0 = -1618 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 122.01 + 7.11 \cdot 10^{-3} \cdot T + 3.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1300 K) [4]

BaO₃Tb (s)	Barium Terbium Oxide	BaO₃Tb (s)
BaO · TbO ₂ (s)		BaO · TbO ₂ (s)

 $\Delta H_{298}^0 = -1609 \pm 2.7 \text{ kJ}\cdot\text{mol}^{-1}$ [179] $S_{298}^0 = [154.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [184] $C_p^0 = [108.31] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

BaO₃Ti (s)	Barium Titanate	BaO₃Ti (s)
BaO · TiO ₂ (s)		BaO · TiO ₂ (s)

mp = 1988 K (1715 °C)

 $\Delta H_{298}^0 = -1647.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 110.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 121.46 + 8.54 \cdot 10^{-3} \cdot T - 1.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1988 K) [4]

BaO₃U (s)	Barium Uranium Oxide	BaO₃U (s)
BaO · UO ₂ (s)		BaO · UO ₂ (s)

 $\Delta H_{298}^0 = -1690.1 \text{ kJ}\cdot\text{mol}^{-1}$ [179] $S_{298}^0 = [149.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [187] $C_p^0 = [110.36] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

BaO₃Zr (s)	Barium Zirconate	BaO₃Zr (s)
BaO · ZrO ₂ (s)		BaO · ZrO ₂ (s)

 $\Delta H_{298}^0 = -1779.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 124.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 127.49 + 5.94 \cdot 10^{-3} \cdot T - 2.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

BaO₄S (s)	Barium Sulfate	BaO₄S (s)
BaSO ₄ (s)		BaSO ₄ (s)

mp = 1623 K (1350 °C)

 $\Delta H_{298}^0 = -1473.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 132.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 141.42 - 3.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1623 K) [4]

BaO₄U (s) BaO · UO ₃ (s)	Barium Uranate(VI)	BaO₄U (s) BaO · UO ₃ (s)
$\Delta H_{298}^0 = -1982.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 140.58 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		$S_{298}^0 = 178.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BaO₄W (s) BaO · WO ₃ (s)	Barium Tungstate(VI)	BaO₄W (s) BaO · WO ₃ (s)
$\Delta H_{298}^0 = -1703 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 133.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
BaO₄Y₂ (s) Y ₂ BaO ₄ (s)	Barium Yttrium Oxide	BaO₄Y₂ (s) Y ₂ BaO ₄ (s)
$\Delta H_{298}^0 = -2487.5 \pm 2.8 \text{ kJ}\cdot\text{mol}^{-1}$ [87] $C_p^0 = [149.25] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [171] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [89]
BaO₅Si₂ (s) BaO · 2SiO ₂ (s)	Barium Silicate	BaO₅Si₂ (s) BaO · 2SiO ₂ (s)
$\Delta H_{298}^0 = -2548.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 134.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 153.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
BaO₆V₂ (s) BaO · V ₂ O ₅ (s)	Barium Vanadate(V)	BaO₆V₂ (s) BaO · V ₂ O ₅ (s)
mp = 980 K (707 °C) $\Delta H_{298}^0 = -2282 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 181.59 + 81.17 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 980 K) [4]		$S_{298}^0 = 193.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BaO₇U₂ (s) BaO · 2UO ₃ (s)	Barium Uranium Oxide	BaO₇U₂ (s) BaO · 2UO ₃ (s)
$\Delta H_{298}^0 = -3234.8 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [222] $C_p^0 = [209.11] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [269.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [223]

BaPdS₂ (s)	Barium Palladium Sulfide	BaPdS₂ (s)
$\Delta H_{298}^0 = -515.4 \text{ kJ}\cdot\text{mol}^{-1}$ [275]		$S_{298}^0 = [134.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [276]
$C_p^0 = [92.72] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
BaS (s)	Barium Sulfide	BaS (s)
mp = 2500 K (2227 °C)		
$\Delta H_{298}^0 = -463.6 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 78.4 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BaS (g)	Barium Sulfide	BaS (g)
$\Delta H_{298}^0 = 37.8 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 248.9 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BaSe (s)	Barium Selenide	BaSe (s)
$\Delta H_{298}^0 = 393.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [53.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [15]		
BaSn₃ (s)	Barium Tin	BaSn₃ (s)
$\Delta H_{298}^0 = -194.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 84.73 + 52.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 953 K) [4]		
BaTe (s)	Barium Telluride	BaTe (s)
$\Delta H_{298}^0 = -313.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 97.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ba₂CaNpO₆ (s)	Barium Calcium Neptunium Oxide	Ba₂CaNpO₆ (s)
2BaO · CaO · NpO ₃ (s)		2BaO · CaO · NpO ₃ (s)
$\Delta H_{298}^0 = -3159.2 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [171]		$S_{298}^0 = [281.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [174]

Ba₂CaO₆Pu (s)	Barium Calcium Plutonium Oxide	Ba₂CaO₆Pu (s)
2BaO · CaO · PuO ₃ (s)		2BaO · CaO · PuO ₃ (s)

$$\Delta H_{298}^0 = -3067.7 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [281.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [175]$$

Ba₂CaO₆U (s)	Barium Calcium Uranium Oxide	Ba₂CaO₆U (s)
2BaO · CaO · UO ₃ (s)		2BaO · CaO · UO ₃ (s)

$$\Delta H_{298}^0 = -3295.6 \pm 4.8 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [281.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [172]$$

$$C_p^0 = [216.84] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ba₂MgO₆Pu (s)	Barium Magnesium Plutonium Oxide	Ba₂MgO₆Pu (s)
2BaO · MgO · PuO ₃ (s)		2BaO · MgO · PuO ₃ (s)

$$\Delta H_{298}^0 = -2994.5 \pm 7.9 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [269.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [176]$$

Ba₂NpO₆Sr (s)	Barium Strontium Neptunium Oxide	Ba₂NpO₆Sr (s)
2BaO · SrO · NpO ₃ (s)		2BaO · SrO · NpO ₃ (s)

$$\Delta H_{298}^0 = -3122.6 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [298.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [174]$$

Ba₂O₄Si (s)	Barium Silicate	Ba₂O₄Si (s)
2BaO · SiO ₂ (s)		2BaO · SiO ₂ (s)

$$\text{mp} = 2033 \text{ K} (1760 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2277 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 175.35 + 11.46 \cdot 10^{-3} \cdot T - 3.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1300 \text{ K}) [4]$$

Ba₂O₄Ti (s)	Barium Titanate	Ba₂O₄Ti (s)
2BaO · TiO ₂ (s)		2BaO · TiO ₂ (s)

$$\text{mp} = 2133 \text{ K} (1860 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2233.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 196.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 179.91 + 6.69 \cdot 10^{-3} \cdot T - 2.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1800 \text{ K}) [4]$$

Ba₂O₆PuSr (s)	Barium Strontium Plutonium Oxide	Ba₂O₆PuSr (s)
2BaO · SrO · PuO ₃ (s)		2BaO · SrO · PuO ₃ (s)

$$\Delta H_{298}^0 = -3023.7 \pm 8.2 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [298.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [174]$$

Ba₂O₆SrU (s)	Barium Strontium Uranium Oxide	Ba₂O₆SrU (s)
2BaO · SrO · UO ₃ (s)		2BaO · SrO · UO ₃ (s)

$$\Delta H_{298}^0 = -3257.3 \pm 4.4 \text{ kJ}\cdot\text{mol}^{-1} [171]$$

$$S_{298}^0 = [298.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [173]$$

$$C_p^0 = [220.21] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ba₂O₇U₂ (s)	Barium Uranium Oxide	Ba₂O₇U₂ (s)
2BaO · UO ₂ · UO ₃ (s)		2BaO · UO ₂ · UO ₃ (s)

$$\Delta H_{298}^0 = -3739.8 \pm 4.1 \text{ kJ}\cdot\text{mol}^{-1} [222]$$

$$S_{298}^0 = [320] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [224]$$

$$C_p^0 = [238.31] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ba₂O₈Si₃ (s)	Barium Silicate	Ba₂O₈Si₃ (s)
2BaO · 3SiO ₂ (s)		2BaO · 3SiO ₂ (s)

$$\Delta H_{298}^0 = -4184.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 224.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ba₂S₂ (g)	Barium Sulfide	Ba₂S₂ (g)
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$$\Delta H_{298}^0 = 351.5 \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = [362.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [15]$$

Ba₂Sn (s)	Barium Tin	Ba₂Sn (s)
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$$\Delta H_{298}^0 = -376.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 126.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 60.67 + 41.84 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

Ba₃N₂ (s)	Barium Nitride	Ba₃N₂ (s)
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$\Delta H_{298}^0 = -341 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 152.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 87.86 + 98.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
$\lg(p,K) = -18.85 \cdot 10^3 \cdot T^{-1} - 2.51 \cdot \lg(T) + 20.54$ (900 ... 1000 K) [4]		
{Reaction: decomposition Ba ₃ N ₂ (s) = 3Ba(s) + N ₂ (g)}		

Ba₃O₆Pu (s)	Barium Plutonium Oxide	Ba₃O₆Pu (s)
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3BaO · PuO ₃ (s)		3BaO · PuO ₃ (s)
$\Delta H_{298}^0 = -2997.7 \pm 8.7 \text{ kJ}\cdot\text{mol}^{-1}$ [171]		$S_{298}^0 = [315.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [178]

Be (s)	Beryllium alpha	Be (s)
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mp = 1560 K (1287 °C)		bp = 2742 K (2469 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 9.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.21 + 5.69 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} + 0.96 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1527 K) [4]		
$\lg(p,K) = -17.33 \cdot 10^3 \cdot T^{-1} - 1.11 \cdot \lg(T) + 10.35$ (298 ... 1527 K) [4]		
{Reaction: evaporation (total pressure)}		

Be (s)	Beryllium alpha	Be (s)
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$\Delta H_{1547}^0 = 32 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1547}^0 = 49.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Be (s)	Beryllium beta	Be (s)
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$\Delta H_{1547}^0 = 34.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1547}^0 = 50.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1547 K) [4]		
$\lg(p,K) = -17.36 \cdot 10^3 \cdot T^{-1} - 1.37 \cdot \lg(T) + 11.2$ (1527 ... 1560 K) [4]		
{Reaction: evaporation (total pressure)}		

Be (s)	Beryllium beta	Be (s)
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$\Delta H_{1560}^0 = 35.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1560}^0 = 51.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Be (l)	Beryllium	Be (l)
$\Delta H_{1560}^0 = 47.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1560}^0 = 59.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 29.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1560 K) [4]		
$\lg(p, K) = -16.5 \cdot 10^3 \cdot T^{-1} - 1.04 \cdot \lg(T) + 9.6$ (1560 ... 2742 K) [4]		
{Reaction: evaporation (total pressure)}		
Be (l)	Beryllium	Be (l)
$\Delta H_{298}^0 = 15.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 19.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 16.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Be (g)	Beryllium	Be (g)
$\Delta H_{298}^0 = 324 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 136.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
BeBr (g)	Beryllium(I) Bromide	BeBr (g)
$\Delta H_{298}^0 = 120.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.09 + 1.26 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeBr₂ (s)	Beryllium(II) Bromide	BeBr₂ (s)
		bp = 752 K (479 °C)
$\Delta H_{298}^0 = -355.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 100.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 63.73 + 21.43 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 752 K) [4]		
$\lg(p, K) = -6.93 \cdot 10^3 \cdot T^{-1} - 1.97 \cdot \lg(T) + 14.88$ (400 ... 752 K) [4]		
{Reaction: evaporation (total pressure)}		
BeBr₂ (g)	Beryllium(II) Bromide	BeBr₂ (g)
$\Delta H_{298}^0 = -229.3 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 273.9 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.92 + 2.08 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BeC₂ (g)	Beryllium Carbide	BeC₂ (g)
$\Delta H_{298}^0 = 564.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BeCl (g)	Beryllium(I) Chloride	BeCl (g)
$\Delta H_{298}^0 = 60.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 217.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.28 + 1.68 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeClF (g)	Beryllium Chloride Fluoride	BeClF (g)
$\Delta H_{298}^0 = -573 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 246.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BeCl₂ (s)	Beryllium(II) Chloride beta	BeCl₂ (s)
mp = 688 K (415 °C)		bp = 760 K (487 °C)
$\Delta H_{298}^0 = -496.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 75.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.45 + 16.08 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 676 K) [4]		
BeCl₂ (s)	Beryllium(II) Chloride beta	BeCl₂ (s)
$\Delta H_{676}^0 = -469.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{676}^0 = 133.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeCl₂ (s)	Beryllium(II) Chloride alpha	BeCl₂ (s)
$\Delta H_{676}^0 = -462.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{676}^0 = 142.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.42 + 18.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (676 ... 688 K) [4]		
BeCl₂ (s)	Beryllium(II) Chloride alpha	BeCl₂ (s)
$\Delta H_{688}^0 = -462 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{688}^0 = 144.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BeCl₂ (l)	Beryllium(II) Chloride	BeCl₂ (l)
$\Delta H_{688}^0 = -453.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{688}^0 = 156.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 121.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (688 K) [4]		
BeCl₂ (g)	Beryllium(II) Chloride	BeCl₂ (g)
$\Delta H_{298}^0 = -360.2 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 252.2 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.07 + 2.51 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeF (g)	Beryllium(I) Fluoride	BeF (g)
$\Delta H_{298}^0 = -169.9 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 205.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.5 + 3.09 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeF₂ (s)	Beryllium(II) Fluoride alpha	BeF₂ (s)
mp = 825 K (552 °C)		bp = 1440 K (1167 °C)
$\Delta H_{298}^0 = -1026.8 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 53.4 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 16.37 + 113.33 \cdot 10^{-3} \cdot T + 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		
BeF₂ (s)	Beryllium(II) Fluoride alpha	BeF₂ (s)
$\Delta H_{500}^0 = -1014.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{500}^0 = 85.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeF₂ (s)	Beryllium(II) Fluoride beta	BeF₂ (s)
$\Delta H_{500}^0 = -1013.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{500}^0 = 85.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.23 + 50 \cdot 10^{-3} \cdot T + 1.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (500 ... 825 K) [4]		
$\lg(p, K) = -12.39 \cdot 10^3 \cdot T^{-1} - 1.99 \cdot \lg(T) + 15.08$ (700 ... 825 K) [4]		
{Reaction: evaporation (total pressure)}		

BeF₂ (s)	Beryllium(II) Fluoride beta	BeF₂ (s)
$\Delta H_{825}^0 = -991.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{825}^0 = 120.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeF₂ (l)	Beryllium(II) Fluoride	BeF₂ (l)
$\Delta H_{825}^0 = -986.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{825}^0 = 125.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 84.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (825 K) [4]		
$\lg(p, K) = -12.56 \cdot 10^3 \cdot T^{-1} - 3.17 \cdot \lg(T) + 18.72$ (825 ... 1443 K) [4]		
{Reaction: evaporation (total pressure)}		
BeF₂ (l)	Beryllium(II) Fluoride	BeF₂ (l)
$\Delta H_{298}^0 = -1022 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 59.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BeF₂ (g)	Beryllium(II) Fluoride	BeF₂ (g)
$\Delta H_{298}^0 = -796 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 227.6 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.39 + 4.39 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeF₃Li (s)	Lithium Trifluoroberyllate	BeF₃Li (s)
LiBeF ₃ (s)		LiBeF ₃ (s)
mp = 650 K (377 °C)		
$\Delta H_{298}^0 = -1651.8 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 89.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.11 + 84.89 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 650 K) [4]		
BeF₃Li (s)	Lithium Trifluoroberyllate	BeF₃Li (s)
LiBeF ₃ (s)		LiBeF ₃ (s)
$\Delta H_{650}^0 = -1612.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{650}^0 = 175.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BeF₃Li (l) LiBeF ₃ (l)	Lithium Trifluoroberyllate	BeF₃Li (l) LiBeF ₃ (l)
$\Delta H_{650}^0 = -1584.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 158.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (650 K) [4]		$S_{650}^0 = 217.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeF₃Li (l) LiBeF ₃ (l)	Lithium Trifluoroberyllate	BeF₃Li (l) LiBeF ₃ (l)
$\Delta H_{298}^0 = -1634.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 91.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 111.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeF₃Li (g) LiBeF ₃ (g)	Lithium Trifluoroberyllate	BeF₃Li (g) LiBeF ₃ (g)
$\Delta H_{298}^0 = -887 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 61.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 267.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeF₄Li₂ (s) Li ₂ BeF ₄ (s)	Lithium Tetrafluoroberyllate	BeF₄Li₂ (s) Li ₂ BeF ₄ (s)
mp = 732 K (459 °C) $\Delta H_{298}^0 = -2273.6 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 92 + 147.94 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 732 K) [4]		$S_{298}^0 = 130.6 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeF₄Li₂ (s) Li ₂ BeF ₄ (s)	Lithium Tetrafluoroberyllate	BeF₄Li₂ (s) Li ₂ BeF ₄ (s)
$\Delta H_{732}^0 = -2200.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{732}^0 = 276.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeF₄Li₂ (l) Li ₂ BeF ₄ (l)	Lithium Tetrafluoroberyllate	BeF₄Li₂ (l) Li ₂ BeF ₄ (l)
$\Delta H_{732}^0 = -2156.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 232.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (732 K) [4]		$S_{732}^0 = 337.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BeF₄Li₂ (l) Li ₂ BeF ₄ (l)	Lithium Tetrafluoroberyllate	BeF₄Li₂ (l) Li ₂ BeF ₄ (l)
$\Delta H_{298}^0 = -2241.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 232.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (732 K) [4]		$S_{298}^0 = 171.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeH (g)	Beryllium Hydride	BeH (g)
$\Delta H_{298}^0 = 321 \pm 29 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 176.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeH₂ (s)	Beryllium(II) Hydride	BeH₂ (s)
$\Delta H_{298}^0 = -19 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 20.5 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		$S_{298}^0 = 17.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BeH₂ (g)	Beryllium(II) Hydride	BeH₂ (g)
$\Delta H_{298}^0 = 125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 30.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [3]		$S_{298}^0 = 173.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeH₂O₂ (s) Be(OH) ₂ (s)	Beryllium(II) Hydroxide alpha	BeH₂O₂ (s) Be(OH) ₂ (s)
$\Delta H_{298}^0 = -902.9 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 65.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 53.6 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BeH₂O₂ (s) Be(OH) ₂ (s)	Beryllium(II) Hydroxide beta	BeH₂O₂ (s) Be(OH) ₂ (s)
$\Delta H_{298}^0 = -905.8 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 82 + 42.69 \cdot 10^{-3} \cdot T - 2.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 496 K) [4] $\lg(p, K) = -3.11 \cdot 10^3 \cdot T^{-1} - 1.54 \cdot \lg(T) + 12.46$ (298 ... 496 K) [4] {Reaction: decomposition Be(OH) ₂ (s) = BeO(s) + H ₂ O(g)}		$S_{298}^0 = 50.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

BeH₂O₂ (g) Be(OH) ₂ (g)	Beryllium(II) Hydroxide	BeH₂O₂ (g) Be(OH) ₂ (g)
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$$\Delta H_{298}^0 = -676.6 \pm 38 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 234 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 82.27 + 11.68 \cdot 10^{-3} \cdot T - 2.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BeH₄O₆S (s) BeSO ₄ · 2H ₂ O (s)	Beryllium Sulfate Dihydrate	BeH₄O₆S (s) BeSO ₄ · 2H ₂ O (s)
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$$\Delta H_{298}^0 = -1823 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 163.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 152.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

BeH₈O₈S (s) BeSO ₄ · 4H ₂ O (s)	Beryllium Sulfate Tetrahydrate	BeH₈O₈S (s) BeSO ₄ · 4H ₂ O (s)
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$$\Delta H_{298}^0 = -2423.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 233 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 216.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

BeI (g)	Beryllium(I) Iodide	BeI (g)
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$$\Delta H_{298}^0 = 170 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 237.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.52 + 1.05 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BeI₂ (s)	Beryllium(II) Iodide	BeI₂ (s)
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$$\text{mp} = 753 \text{ K} (480 \text{ }^\circ\text{C})$$

$$\text{bp} = 759 \text{ K} (486 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -188.7 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 120.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 81.12 + 10.9 \cdot 10^{-3} \cdot T - 1.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 753 \text{ K}) [4]$$

$$\lg(p, K) = -6.92 \cdot 10^3 \cdot T^{-1} - 2.83 \cdot \lg(T) + 17.28 (400 \dots 753 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

BeI₂ (s)	Beryllium(II) Iodide	BeI₂ (s)
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$$\Delta H_{753}^0 = -152 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{753}^0 = 194.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BeI₂ (l)	Beryllium(II) iodide	BeI₂ (l)
$\Delta H_{753}^0 = -131 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{753}^0 = 221.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (753 K) [4]		
$\lg(p,K) = -6.98 \cdot 10^3 \cdot T^{-1} - 6.42 \cdot \lg(T) + 27.69$ (753 ... 759 K) [4]		
{Reaction: evaporation (total pressure)}		

BeI₂ (l)	Beryllium(II) iodide	BeI₂ (l)
$\Delta H_{298}^0 = -178.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 68.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BeI₂ (g)	Beryllium(II) iodide	BeI₂ (g)
$\Delta H_{298}^0 = -64 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 291.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 59.78 + 0.81 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BeN (g)	Beryllium Nitride	BeN (g)
$\Delta H_{298}^0 = 426.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 208.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 30.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BeO (s)	Beryllium Oxide alpha	BeO (s)
mp = 2780 K (2507 °C)		
$\Delta H_{298}^0 = -608.4 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 13.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.59 + 10.21 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} - 1.34 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2370 K) [4]		

BeO (s)	Beryllium Oxide beta	BeO (s)
$\Delta H_{298}^0 = -601.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 16.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 25.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BeO (l)	Beryllium Oxide	BeO (l)
$\Delta H_{298}^0 = -542.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 35.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 25.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BeO (g)	Beryllium Oxide	BeO (g)
$\Delta H_{298}^0 = 136.4 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 197.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BeO₄S (s) BeSO ₄ (s)	Beryllium Sulfate alpha	BeO₄S (s) BeSO ₄ (s)
$\Delta H_{298}^0 = -1200.8 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 112.8 - 9.25 \cdot 10^{-3} \cdot T - 2.77 \cdot 10^6 \cdot T^{-2} + 76.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 863 K) [4]		
BeO₄S (s) BeSO ₄ (s)	Beryllium Sulfate beta	BeO₄S (s) BeSO ₄ (s)
$\Delta H_{298}^0 = -1199.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 79.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 162.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (863 ... 908 K) [4]		
BeO₄S (s) BeSO ₄ (s)	Beryllium Sulfate gamma	BeO₄S (s) BeSO ₄ (s)
$\Delta H_{298}^0 = -1180.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 254.89 - 19.39 \cdot 10^{-3} \cdot T - 61.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (908 ... 1016 K) [4]		
BeO₄W (s) BeWO ₄ (s)	Beryllium Tungstate	BeO₄W (s) BeWO ₄ (s)
$\Delta H_{298}^0 = -1513.4 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 88.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 97.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BeS (s)	Beryllium Sulfide	BeS (s)
$\Delta H_{298}^0 = -234.3 \pm 8.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 37 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.43 + 6.02 \cdot 10^{-3} \cdot T - 1.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -26.15 \cdot 10^3 \cdot T^{-1} - 1.89 \cdot \lg(T) + 14.5$ (1500 ... 2000 K) [4]		
{Reaction: evaporation as BeS(g)}		
BeS (g)	Beryllium Sulfide	BeS (g)
$\Delta H_{298}^0 = 264 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 210.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 23.82 + 13.51 \cdot 10^{-3} \cdot T + 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BeSe (s)	Beryllium Selenide	BeSe (s)
$\Delta H_{298}^0 = [-167.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [46] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
BeTe (s)	Beryllium Telluride	BeTe (s)
$\Delta H_{298}^0 = [-125.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [52.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Be₂ (g)	Beryllium	Be₂ (g)
$\Delta H_{298}^0 = 637.2 \pm 7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 206.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Be₂C (s)	Beryllium Carbide	Be₂C (s)
mp = 2400 K (2127 °C)		
$\Delta H_{298}^0 = -90.8 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 16.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 38.37 + 45.02 \cdot 10^{-3} \cdot T - 0.84 \cdot 10^6 \cdot T^{-2} - 9.58 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Be₂C (l)	Beryllium Carbide	Be₂C (l)
$\Delta H_{298}^0 = -15.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 47.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Be₂Cl₄ (g) (BeCl ₂) ₂ (g)	Beryllium(II) Chloride	Be₂Cl₄ (g) (BeCl ₂) ₂ (g)
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$$\Delta H_{298}^0 = -823.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 381.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 129.48 + 2.18 \cdot 10^{-3} \cdot T - 1.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -9.33 \cdot 10^3 \cdot T^{-1} - 3.1 \cdot \lg(T) + 21.28 (500 \dots 688 \text{ K}) [4]$$

{Reaction: evaporation of BeCl₂(s)}

Be₂F₂O (g) Be ₂ OF ₂ (g)	Beryllium Oxide Fluoride	Be₂F₂O (g) Be ₂ OF ₂ (g)
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$$\Delta H_{298}^0 = -1204.6 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 298.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 76.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Be₂O (g)	Beryllium Oxide	Be₂O (g)
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$$\Delta H_{298}^0 = -62.8 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 220.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 40.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Be₂O₂ (g) (BeO) ₂ (g)	Beryllium Oxide	Be₂O₂ (g) (BeO) ₂ (g)
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$$\Delta H_{298}^0 = -410 \pm 50 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 247.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 49.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Be₂O₄Si (s) 2BeO · SiO ₂ (s)	Beryllium Silicate	Be₂O₄Si (s) 2BeO · SiO ₂ (s)
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$$\Delta H_{298}^0 = -2142.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 64.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 124.06 + 78.53 \cdot 10^{-3} \cdot T - 4.54 \cdot 10^6 \cdot T^{-2} - 33.47 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1806 \text{ K}) [4]$$

Be₃N₂ (s)	Beryllium Nitride alpha	Be₃N₂ (s)
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$$\text{mp} = 2473 \text{ K} (2200 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -589.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 34.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 53.93 + 103.55 \cdot 10^{-3} \cdot T - 1.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 430 \text{ K}) [4]$$

Be₃N₂ (s)	Beryllium Nitride alpha	Be₃N₂ (s)
$\Delta H_{430}^0 = -579.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{430}^0 = 62.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Be₃N₂ (s)	Beryllium Nitride beta	Be₃N₂ (s)
$\Delta H_{430}^0 = -561.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{430}^0 = 103.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 114.52 + 15.06 \cdot 10^{-3} \cdot T - 5.95 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (430 ... 2000 K) [4]		
Be₃N₂ (l)	Beryllium Nitride	Be₃N₂ (l)
$\Delta H_{298}^0 = -487 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 39.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Be₃O₃ (g) (BeO) ₃ (g)	Beryllium Oxide	Be₃O₃ (g) (BeO) ₃ (g)
$\Delta H_{298}^0 = -1054.4 \pm 38 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 273.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 63.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Be₄O₄ (g) (BeO) ₄ (g)	Beryllium Oxide	Be₄O₄ (g) (BeO) ₄ (g)
$\Delta H_{298}^0 = -1589.9 \pm 50 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 302.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 89.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Be₅O₅ (g) (BeO) ₅ (g)	Beryllium Oxide	Be₅O₅ (g) (BeO) ₅ (g)
$\Delta H_{298}^0 = -2112.9 \pm 75 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 323.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 112.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Be₆O₆ (g) (BeO) ₆ (g)	Beryllium Oxide	Be₆O₆ (g) (BeO) ₆ (g)
$\Delta H_{298}^0 = -2661 \pm 92 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 343.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Bi (s)	Bismuth	Bi (s)
mp = 545 K (272 °C)		bp = 1835 K (1562 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 56.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.03 - 24.27 \cdot 10^{-3} \cdot T + 50.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298-545 K) [4]		
Bi (s)	Bismuth	Bi (s)
$\Delta H_{545}^0 = 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{545}^0 = 73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi (l)	Bismuth	Bi (l)
$\Delta H_{545}^0 = 18 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{545}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 23.36 + 3.14 \cdot 10^{-3} \cdot T + 1.66 \cdot 10^6 \cdot T^{-2} - 0.72 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (545 ... 1835 K) [4]		
$\lg(p, K) = -10.74 \cdot 10^3 \cdot T^{-1} - 2.1 \cdot \lg(T) + 12.67$ (700 ... 1835 K) [4]		
{Reaction: evaporation (total pressure)}		
Bi (g)	Bismuth	Bi (g)
$\Delta H_{298}^0 = 209.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 187 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.64 + 0.13 \cdot 10^{-3} \cdot T + 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiBr (g)	Bismuth(I) Bromide	BiBr (g)
$\Delta H_{298}^0 = 53.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 267.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BiBrH₂O₂ (g) Bi(OH) ₂ Br (g)	Bismuth(III) Hydroxide Bromide	BiBrH₂O₂ (g) Bi(OH) ₂ Br (g)
$\Delta H_{298}^0 = -495.8 \pm 31.4 \text{ kJ}\cdot\text{mol}^{-1}$ [16]		$S_{298}^0 = 359.8 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [16]

BiBrO (s)	Bismuth Bromide Oxide	BiBrO (s)
BiOBr (s)		BiOBr (s)

mp = 1236 K (963 °C)

 $\Delta H_{298}^0 = -334.3 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [17] $S_{298}^0 = 108.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [16] $C_p^0 = 67.45 + 18.81 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} - 0.32 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 623 K) [16]

BiBrTe (s)	Bismuth Tellurium Bromide	BiBrTe (s)
BiTeBr (s)		BiTeBr (s)

mp = 799 K (526 °C)

 $\Delta H_{298}^0 = -127.2 \pm 5.9 \text{ kJ}\cdot\text{mol}^{-1}$ [38] $S_{298}^0 = 151.5 \pm 12.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [38]

BiBr₃ (s)	Bismuth(III) Bromide alpha	BiBr₃ (s)
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mp = 492 K (219 °C)

 $\Delta H_{298}^0 = -276.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 195.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 84.05 + 56.26 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 431 K) [4] $\lg(p, K) = -6.06 \cdot 10^3 \cdot T^{-1} - 0.66 \cdot \lg(T) + 11.06$ (400 ... 431 K) [4]

{Reaction: evaporation}

BiBr₃ (s)	Bismuth(III) Bromide alpha	BiBr₃ (s)
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 $\Delta H_{431}^0 = -262.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{431}^0 = 233.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

BiBr₃ (s)	Bismuth(III) Bromide beta	BiBr₃ (s)
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 $\Delta H_{431}^0 = -258.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{431}^0 = 241.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 87.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (431 K) [2] $\lg(p, K) = -6.06 \cdot 10^3 \cdot T^{-1} - 0.66 \cdot \lg(T) + 11.06$ (431 ... 492 K) [4]

{Reaction: evaporation}

BiBr₃ (s)	Bismuth(III) Bromide beta	BiBr₃ (s)
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 $\Delta H_{492}^0 = -253.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{492}^0 = 253.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BiBr₃ (l)	Bismuth(III) Bromide	BiBr₃ (l)
$\Delta H_{492}^0 = -233 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{492}^0 = 295.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 166.26 - 44.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (492 ... 734 K) [4]		
$\lg(p, K) = -6.29 \cdot 10^3 \cdot T^{-1} - 6.81 \cdot \lg(T) + 28.08$ (492 ... 734 K) [4]		
{Reaction: evaporation}		
BiBr₃ (g)	Bismuth(III) Bromide	BiBr₃ (g)
$\Delta H_{298}^0 = -156.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 384.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.31 - 0.15 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiCl (g)	Bismuth(I) Chloride	BiCl (g)
$\Delta H_{298}^0 = 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 255.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.32 + 0.84 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiClH₂O₂ (g) Bi(OH) ₂ Cl (g)	Bismuth(III) Hydroxide Chloride	BiClH₂O₂ (g) Bi(OH) ₂ Cl (g)
$\Delta H_{298}^0 = -537.6 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [16]		$S_{298}^0 = 347.7 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [16]
BiClO (s) BiOCl (s)	Bismuth Chloride Oxide	BiClO (s) BiOCl (s)
mp = 1308 K (1035 °C)		
$\Delta H_{298}^0 = -383.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [39]		$S_{298}^0 = 101.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [39]
$C_p^0 = 69.35 + 22 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} - 0.59 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (110 ... 623 K) [39]		
BiClSe (s) BiSeCl (s)	Bismuth Selenium Chloride	BiClSe (s) BiSeCl (s)
$\Delta H_{298}^0 = -181.6 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [46]		$S_{298}^0 = 145.2 \pm 9.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [46]
BiClTe (s) BiTeCl (s)	Bismuth Tellurium Chloride	BiClTe (s) BiTeCl (s)
$\Delta H_{298}^0 = -165.3 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [43]		$S_{298}^0 = 143.9 \pm 11.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [43]

BiCl₃ (s)	Bismuth(III) Chloride	BiCl₃ (s)
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mp = 507 K (234 °C)

$$\Delta H_{298}^0 = -379.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 82.98 + 58.53 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 507 \text{ K}) [4]$$

$$\lg(p, K) = -6.34 \cdot 10^3 \cdot T^{-1} - 3.37 \cdot \lg(T) + 19.31 (400 \dots 507 \text{ K}) [4]$$

{Reaction: evaporation}

bp = 712 K (439 °C)

$$S_{298}^0 = 177 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

BiCl₃ (s)	Bismuth(III) Chloride	BiCl₃ (s)
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$$\Delta H_{507}^0 = -356.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{507}^0 = 233.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BiCl₃ (l)	Bismuth(III) Chloride	BiCl₃ (l)
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$$\Delta H_{507}^0 = -333.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{507}^0 = 280 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 143.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (507 \text{ K}) [4]$$

$$\lg(p, K) = -5.98 \cdot 10^3 \cdot T^{-1} - 7.36 \cdot \lg(T) + 29.39 (507 \dots 712 \text{ K}) [4]$$

{Reaction: evaporation as BiCl₃(g)}

BiCl₃ (g)	Bismuth(III) Chloride	BiCl₃ (g)
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$$\Delta H_{298}^0 = -265.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 357.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 83.05 - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BiF (g)	Bismuth(I) Fluoride	BiF (g)
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$$\Delta H_{298}^0 = -29.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 244.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 37.03 + 0.84 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BiF₃ (s)	Bismuth(III) Fluoride	BiF₃ (s)
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mp = 922 K (649 °C)

$$\Delta H_{298}^0 = -909.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

bp = 1177 K (904 °C)

$$S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 38.97 + 123.17 \cdot 10^{-3} \cdot T + 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 922 \text{ K}) [4]$$

$$\lg(p, K) = -12.4 \cdot 10^3 \cdot T^{-1} - 7.77 \cdot \lg(T) + 34.71 (600 \dots 922 \text{ K}) [4]$$

{Reaction: evaporation}

BiF₃ (s)	Bismuth(III) Fluoride	BiF₃ (s)
$\Delta H_{922}^0 = -836 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{922}^0 = 247.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BiF₃ (l)	Bismuth(III) Fluoride	BiF₃ (l)
$\Delta H_{922}^0 = -814.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{922}^0 = 271.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 184.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (922 K) [4]		
$\lg(p, K) = -13.08 \cdot 10^3 \cdot T^{-1} - 12.3 \cdot \lg(T) + 48.89$ (922 ... 1177 K) [4]		
{Reaction: evaporation}		
BiF₃ (g)	Bismuth(III) Fluoride	BiF₃ (g)
$\Delta H_{298}^0 = -707.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 317.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.51 + 0.46 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiH₂IO₂ (g)	Bismuth(III) Hydroxide Iodide	BiH₂IO₂ (g)
Bi(OH) ₂ I (g)		Bi(OH) ₂ I (g)
$\Delta H_{298}^0 = -428.9 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [16]		$S_{298}^0 = 366.5 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [16]
BiH₃ (g)	Bismuth Hydride	BiH₃ (g)
$\Delta H_{298}^0 = 179.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 214.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.78 - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
BiI (s)	Bismuth(I) Iodide alpha	BiI (s)
$\Delta H_{298}^0 = -54.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BiI (s)	Bismuth(I) Iodide alpha	BiI (s)
$\Delta H_{564}^0 = -41.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{564}^0 = 156.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (564 K) [2]		

BiI (s)	Bismuth(I) Iodide beta	BiI (s)
$\Delta H_{564}^0 = -40.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{564}^0 = 158.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 54.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (564 K) [2]		
BiI (g)	Bismuth(I) Iodide	BiI (g)
$\Delta H_{298}^0 = 84.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [56]		$S_{298}^0 = 275.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [56]
$C_p^0 = 37.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BiIO (s)	Bismuth(III) Iodide Oxide	BiIO (s)
BiOI (s)		BiOI (s)
$\Delta H_{298}^0 = -268.1 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [18]		$S_{298}^0 = 119.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [16]
$C_p^0 = 65.3 + 20.1 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^6 \cdot T^{-2} - 3.47 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 523 K) [16]		
BiISe (s)	Bismuth(III) Selenide Iodide	BiISe (s)
BiSel (s)		BiSel (s)
$\Delta H_{298}^0 = -97.9 \pm 7.9 \text{ kJ}\cdot\text{mol}^{-1}$ [48]		$S_{298}^0 = 161.9 \pm 14.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [48]
BiI₃ (s)	Bismuth(III) Iodide	BiI₃ (s)
mp = 682 K (409 °C)		bp = 812 K (539 °C)
$\Delta H_{298}^0 = -150.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 224.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 40.96 + 108.63 \cdot 10^{-3} \cdot T + 2.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 682 K) [4]		
$\lg(p, K) = -7.62 \cdot 10^3 \cdot T^{-1} - 3.75 \cdot \lg(T) + 20.8$ (298 ... 682 K) [4]		
{Reaction: evaporation}		
BiI₃ (s)	Bismuth(III) Iodide	BiI₃ (s)
$\Delta H_{682}^0 = -109 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{682}^0 = 313.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BiI₃ (l)	Bismuth(III) Iodide	BiI₃ (l)
$\Delta H_{682}^0 = -69.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{682}^0 = 370.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 150.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (682 K) [4]		
$\lg(p, K) = -6.87 \cdot 10^3 \cdot T^{-1} - 8.14 \cdot \lg(T) + 32.14$ (682 ... 812 K) [4]		
{Reaction: evaporation as BiI ₃ (g)}		
BiI₃ (g)	Bismuth(III) Iodide	BiI₃ (g)
$\Delta H_{298}^0 = -16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 408.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.16 - 0.03 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiK₃ (s)	Potassium Bismuth	BiK₃ (s)
K ₃ Bi (s)		K ₃ Bi (s)
$\Delta H_{298}^0 = -173.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 193.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BiLa (s)	Lanthanum Bismuth	BiLa (s)
LaBi (s)		LaBi (s)
$\Delta H_{298}^0 = -221.8 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
BiMn (s)	Manganese Bismuth	BiMn (s)
MnBi (s)		MnBi (s)
$\Delta H_{298}^0 = -21 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
BiNi (s)	Nickel Bismuth	BiNi (s)
NiBi (s)		NiBi (s)
$\Delta H_{298}^0 = -7.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 88.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 46.02 + 19.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 927 K) [4]		

BiS (g)	Bismuth Sulfide	BiS (g)
$\Delta H_{298}^0 = 173.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 257.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.95 + 1.91 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiSe (s)	Bismuth Selenide	BiSe (s)
mp = 880 K (607 °C)		
$\Delta H_{298}^0 = -52.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [102.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [53.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [15]		
BiSe (g)	Bismuth Selenide	BiSe (g)
$\Delta H_{298}^0 = 166.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 269.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.7 + 0.8 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiTe (s)	Bismuth Telluride	BiTe (s)
$\Delta H_{298}^0 = -27.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 97.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [53.97] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [15]		
BiTe (g)	Bismuth Telluride	BiTe (g)
$\Delta H_{298}^0 = 190.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 273 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.88 + 0.91 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BiTe_{1.22} (s)	Bismuth Telluride	BiTe_{1.22} (s)
$\Delta H_{298}^0 = -33.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 107.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
BiU (s)	Bismuth Uranium	BiU (s)
$\Delta H_{298}^0 = -117 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 52.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Bi₂ (g)	Bismuth	Bi₂ (g)
$\Delta H^0_{298} = 220.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 273.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.4 + 0.01 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -10.52 \cdot 10^3 \cdot T^{-1} - 2.04 \cdot \lg(T) + 12.04$ (700 ... 1835 K) [4]		
{Reaction: evaporation $2\text{Bi}(l) = \text{Bi}_2(g)$ }		
Bi₂BrDyO₄ (s)	Bismuth Dysprosium Bromide Oxide	Bi₂BrDyO₄ (s)
Bi ₂ DyO ₄ Br (s)		Bi ₂ DyO ₄ Br (s)
$\Delta H^0_{298} = -1648.1 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 248.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrErO₄ (s)	Bismuth Erbium Bromide Oxide	Bi₂BrErO₄ (s)
Bi ₂ ErO ₄ Br (s)		Bi ₂ ErO ₄ Br (s)
$\Delta H^0_{298} = -1665.7 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 250.6 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
$C_p^0 = 176.07 + 43.01 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} - 12.9 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 1013 K) [119]		
Bi₂BrEuO₄ (s)	Bismuth Europium Bromide Oxide	Bi₂BrEuO₄ (s)
Bi ₂ EuO ₄ Br (s)		Bi ₂ EuO ₄ Br (s)
$\Delta H^0_{298} = -1516.3 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 246.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrGdO₄ (s)	Bismuth Gadolinium Bromide Oxide	Bi₂BrGdO₄ (s)
Bi ₂ GdO ₄ Br (s)		Bi ₂ GdO ₄ Br (s)
$\Delta H^0_{298} = -1626.7 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 248.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrHoO₄ (s)	Bismuth Holmium Bromide Oxide	Bi₂BrHoO₄ (s)
Bi ₂ HoO ₄ Br (s)		Bi ₂ HoO ₄ Br (s)
$\Delta H^0_{298} = -1657.3 \pm 10.9 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 252.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrLuO₄ (s)	Bismuth Lutetium Bromide Oxide	Bi₂BrLuO₄ (s)
Bi ₂ LuO ₄ Br (s)		Bi ₂ LuO ₄ Br (s)
$\Delta H^0_{298} = -1656 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 228.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]

Bi₂BrNdO₄ (s) Bi ₂ NdO ₄ Br (s)	Bismuth Neodymium Bromide Oxide	Bi₂BrNdO₄ (s) Bi ₂ NdO ₄ Br (s)
$\Delta H_{298}^0 = -1618.4 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 252.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Pr (s) Bi ₂ PrO ₄ Br (s)	Bismuth Praseodymium Bromide Oxide	Bi₂BrO₄Pr (s) Bi ₂ PrO ₄ Br (s)
$\Delta H_{298}^0 = -1621.7 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 251 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Sm (s) Bi ₂ SmO ₄ Br (s)	Bismuth Samarium Bromide Oxide	Bi₂BrO₄Sm (s) Bi ₂ SmO ₄ Br (s)
$\Delta H_{298}^0 = -1630.1 \pm 7.9 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 248.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Tb (s) Bi ₂ TbO ₄ Br (s)	Bismuth Terbium Bromide Oxide	Bi₂BrO₄Tb (s) Bi ₂ TbO ₄ Br (s)
$\Delta H_{298}^0 = -1649.3 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 251.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Tm (s) Bi ₂ TmO ₄ Br (s)	Bismuth Thulium Bromide Oxide	Bi₂BrO₄Tm (s) Bi ₂ TmO ₄ Br (s)
$\Delta H_{298}^0 = -1661 \pm 11.3 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 243.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Y (s) Bi ₂ YO ₄ Br (s)	Bismuth Yttrium Bromide Oxide	Bi₂BrO₄Y (s) Bi ₂ YO ₄ Br (s)
$\Delta H_{298}^0 = -1669 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 223.8 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂BrO₄Yb (s) Bi ₂ YbO ₄ Br (s)	Bismuth Ytterbium Bromide Oxide	Bi₂BrO₄Yb (s) Bi ₂ YbO ₄ Br (s)
$\Delta H_{298}^0 = -1624.2 \pm 9.6 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 239.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]

Bi₂Ca₃ (s) Ca ₃ Bi ₂ (s)	Calcium Bismuth	Bi₂Ca₃ (s) Ca ₃ Bi ₂ (s)
mp = 1470 K (1197 °C)		
$\Delta H_{298}^0 = -527.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.27 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1470 K) [4]		
Bi₂ClDyO₄ (s) Bi ₂ DyO ₄ Cl (s)	Bismuth Dysprosium Chloride Oxide	Bi₂ClDyO₄ (s) Bi ₂ DyO ₄ Cl (s)
$\Delta H_{298}^0 = -1687.4 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 231 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂ClErO₄ (s) Bi ₂ ErO ₄ Cl (s)	Bismuth Erbium Chloride Oxide	Bi₂ClErO₄ (s) Bi ₂ ErO ₄ Cl (s)
$\Delta H_{298}^0 = -1702.5 \pm 13.4 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 233.1 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
$C_p^0 = 190.31 + 30 \cdot 10^{-3} \cdot T - 1.58 \cdot 10^6 \cdot T^{-2} - 8.43 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 1023 K) [119]		
Bi₂ClEuO₄ (s) Bi ₂ EuO ₄ Cl (s)	Bismuth Europium Chloride Oxide	Bi₂ClEuO₄ (s) Bi ₂ EuO ₄ Cl (s)
$\Delta H_{298}^0 = -1555.6 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 229.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂ClGdO₄ (s) Bi ₂ GdO ₄ Cl (s)	Bismuth Gadolinium Chloride Oxide	Bi₂ClGdO₄ (s) Bi ₂ GdO ₄ Cl (s)
$\Delta H_{298}^0 = -1666.5 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 231.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂ClHoO₄ (s) Bi ₂ HoO ₄ Cl (s)	Bismuth Holmium Chloride Oxide	Bi₂ClHoO₄ (s) Bi ₂ HoO ₄ Cl (s)
$\Delta H_{298}^0 = -1696.6 \pm 10.9 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 235.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂ClLuO₄ (s) Bi ₂ LuO ₄ Cl (s)	Bismuth Lutetium Chloride Oxide	Bi₂ClLuO₄ (s) Bi ₂ LuO ₄ Cl (s)
$\Delta H_{298}^0 = -1695.4 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S_{298}^0 = 210.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]

Bi₂CINdO₄ (s) Bi ₂ NdO ₄ Cl (s)	Bismuth Neodymium Chloride Oxide	Bi₂CINdO₄ (s) Bi ₂ NdO ₄ Cl (s)
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$$\Delta H^0_{298} = -1659 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 235.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Pr (s) Bi ₂ PrO ₄ Cl (s)	Bismuth Praseodymium Chloride Oxide	Bi₂CIO₄Pr (s) Bi ₂ PrO ₄ Cl (s)
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$$\Delta H^0_{298} = -1661 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 233.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Sm (s) Bi ₂ SmO ₄ Cl (s)	Bismuth Samarium Chloride Oxide	Bi₂CIO₄Sm (s) Bi ₂ SmO ₄ Cl (s)
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$$\Delta H^0_{298} = -1668.6 \pm 8.8 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 231.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Tb (s) Bi ₂ TbO ₄ Cl (s)	Bismuth Terbium Chloride Oxide	Bi₂CIO₄Tb (s) Bi ₂ TbO ₄ Cl (s)
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$$\Delta H^0_{298} = -1688.7 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 234.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Tm (s) Bi ₂ TmO ₄ Cl (s)	Bismuth Thulium Chloride Oxide	Bi₂CIO₄Tm (s) Bi ₂ TmO ₄ Cl (s)
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$$\Delta H^0_{298} = -1700.4 \pm 11.3 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 225.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Y (s) Bi ₂ YO ₄ Cl (s)	Bismuth Yttrium Chloride Oxide	Bi₂CIO₄Y (s) Bi ₂ YO ₄ Cl (s)
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$$\Delta H^0_{298} = -1708.7 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 205.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂CIO₄Yb (s) Bi ₂ YbO ₄ Cl (s)	Bismuth Ytterbium Chloride Oxide	Bi₂CIO₄Yb (s) Bi ₂ YbO ₄ Cl (s)
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$$\Delta H^0_{298} = -1663.6 \pm 9.6 \text{ kJ}\cdot\text{mol}^{-1} [119] \qquad S^0_{298} = 222.6 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂DyIO₄ (s) Bi ₂ DyO ₄ I (s)	Bismuth Dysprosium Iodide Oxide	Bi₂DyIO₄ (s) Bi ₂ DyO ₄ I (s)
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$$\Delta H_{298}^0 = -1583.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 253.6 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂ErIO₄ (s) Bi ₂ ErO ₄ I (s)	Bismuth Erbium Iodide Oxide	Bi₂ErIO₄ (s) Bi ₂ ErO ₄ I (s)
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$$\Delta H_{298}^0 = -1601.2 \pm 11.7 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 256.1 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

$$C_p^0 = 193.66 + 20.59 \cdot 10^{-3} \cdot T - 1.52 \cdot 10^{-6} \cdot T^{-2} - 3.8 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (323 \dots 913 \text{ K}) [119]$$

Bi₂EuIO₄ (s) Bi ₂ EuO ₄ I (s)	Bismuth Europium Iodide Oxide	Bi₂EuIO₄ (s) Bi ₂ EuO ₄ I (s)
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$$\Delta H_{298}^0 = -1453.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 251.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂GdIO₄ (s) Bi ₂ GdO ₄ I (s)	Bismuth Gadolinium Iodide Oxide	Bi₂GdIO₄ (s) Bi ₂ GdO ₄ I (s)
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$$\Delta H_{298}^0 = -1562.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 254.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂HoIO₄ (s) Bi ₂ HoO ₄ I (s)	Bismuth Holmium Iodide Oxide	Bi₂HoIO₄ (s) Bi ₂ HoO ₄ I (s)
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$$\Delta H_{298}^0 = -1592.9 \pm 13.4 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 257.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂LaO₄ (s) Bi ₂ LaO ₄ I (s)	Bismuth Lanthanum Iodide Oxide	Bi₂LaO₄ (s) Bi ₂ LaO ₄ I (s)
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$$\Delta H_{298}^0 = -1546.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 242.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂LuO₄ (s) Bi ₂ LuO ₄ I (s)	Bismuth Lutetium Iodide Oxide	Bi₂LuO₄ (s) Bi ₂ LuO ₄ I (s)
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$$\Delta H_{298}^0 = -1591.6 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1} [119]$$

$$S_{298}^0 = 233.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [119]$$

Bi₂INdO₄ (s) Bi ₂ NdO ₄ I (s)	Bismuth Neodymium Iodide Oxide	Bi₂INdO₄ (s) Bi ₂ NdO ₄ I (s)
$\Delta H^0_{298} = -1558.1 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 258.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Pr (s) Bi ₂ PrO ₄ I (s)	Bismuth Praseodymium Iodide Oxide	Bi₂IO₄Pr (s) Bi ₂ PrO ₄ I (s)
$\Delta H^0_{298} = -1557.3 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 256.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Sm (s) Bi ₂ SmO ₄ I (s)	Bismuth Samarium Iodide Oxide	Bi₂IO₄Sm (s) Bi ₂ SmO ₄ I (s)
$\Delta H^0_{298} = -1564.4 \pm 9.6 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 254.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Tb (s) Bi ₂ TbO ₄ I (s)	Bismuth Terbium Iodide Oxide	Bi₂IO₄Tb (s) Bi ₂ TbO ₄ I (s)
$\Delta H^0_{298} = -1584.9 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 257.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Tm (s) Bi ₂ TmO ₄ I (s)	Bismuth Thulium Iodide Oxide	Bi₂IO₄Tm (s) Bi ₂ TmO ₄ I (s)
$\Delta H^0_{298} = -1596.6 \pm 13.9 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 248.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Y (s) Bi ₂ YO ₄ I (s)	Bismuth Yttrium Iodide Oxide	Bi₂IO₄Y (s) Bi ₂ YO ₄ I (s)
$\Delta H^0_{298} = -1605 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 228.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]
Bi₂IO₄Yb (s) Bi ₂ YbO ₄ I (s)	Bismuth Ytterbium Iodide Oxide	Bi₂IO₄Yb (s) Bi ₂ YbO ₄ I (s)
$\Delta H^0_{298} = -1559.8 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [119]		$S^0_{298} = 245.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [119]

Bi₂O₂Se (s)	Bismuth Selenide Oxide	Bi₂O₂Se (s)
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$$\Delta H_{298}^0 = -437.6 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [35]}$$

$$S_{298}^0 = 179.9 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [35]}$$

$$C_p^0 = 118.83 + 16.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (773 ... 873 K) [36]}$$

Bi₂O₂Te (s)	Bismuth Telluride Oxide	Bi₂O₂Te (s)
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$$\Delta H_{298}^0 = -418.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [37]}$$

$$S_{298}^0 = 187.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [37]}$$

$$C_p^0 = 115.65 + 28.58 \cdot 10^{-3} \cdot T - 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (673 ... 873 K) [37]}$$

Bi₂O₃ (s)	Bismuth Oxide alpha	Bi₂O₃ (s)
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$$\text{mp} = 1098 \text{ K (825 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -573.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 151.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 119.6 + 15.28 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1003 K) [4]}$$

Bi₂O₃ (s)	Bismuth Oxide alpha	Bi₂O₃ (s)
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$$\Delta H_{1003}^0 = -484.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1003}^0 = 302.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Bi₂O₃ (s)	Bismuth Oxide beta	Bi₂O₃ (s)
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$$\Delta H_{1003}^0 = -452.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1003}^0 = 334 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 138.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1003 K) [4]}$$

Bi₂O₃ (s)	Bismuth Oxide beta	Bi₂O₃ (s)
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$$\Delta H_{1098}^0 = -439.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1098}^0 = 346.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Bi₂O₃ (l)	Bismuth Oxide	Bi₂O₃ (l)
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$$\Delta H_{1098}^0 = -385 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1098}^0 = 396 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 179.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1098 K) [4]}$$

Bi₂O₅Se (s)	Bismuth Selenium Oxide	Bi₂O₅Se (s)
Bi ₂ O ₃ · SeO ₂ (s)		Bi ₂ O ₃ · SeO ₂ (s)

$$\Delta H_{298}^0 = -884.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [34]} \quad S_{298}^0 = 239.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [34]}$$

$$C_p^0 = 212.55 - 10.71 \cdot 10^{-3} \cdot T - 4.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (300 ... 1000 K) [34]}$$

Bi₂O₅Te (s)	Bismuth Tellurium Oxide	Bi₂O₅Te (s)
Bi ₂ O ₃ · TeO ₂ (s)		Bi ₂ O ₃ · TeO ₂ (s)

$$\Delta H_{298}^0 = -932.2 \pm 11.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [37]} \quad S_{298}^0 = 225.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [37]}$$

$$C_p^0 = 184.68 + 29.82 \cdot 10^{-3} \cdot T - 1.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (673 ... 873 K) [37]}$$

Bi₂O₇Te₂ (s)	Bismuth Tellurium Oxide	Bi₂O₇Te₂ (s)
Bi ₂ O ₃ · 2TeO ₂ (s)		Bi ₂ O ₃ · 2TeO ₂ (s)

$$\Delta H_{298}^0 = -1252.7 \pm 17.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [37]} \quad S_{298}^0 = 300 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [37]}$$

$$C_p^0 = 249.84 + 44.38 \cdot 10^{-3} \cdot T - 1.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (673 ... 873 K) [37]}$$

Bi₂O₉Se₃ (s)	Bismuth Selenium Oxide	Bi₂O₉Se₃ (s)
Bi ₂ O ₃ · 3SeO ₂ (s)		Bi ₂ O ₃ · 3SeO ₂ (s)

$$\Delta H_{298}^0 = -1389.9 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [34]} \quad S_{298}^0 = 392.5 \pm 37.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [34]}$$

$$C_p^0 = [288.17] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Bi₂O₁₁Se₄ (s)	Bismuth Selenium Oxide	Bi₂O₁₁Se₄ (s)
Bi ₂ O ₃ · 4SeO ₂ (s)		Bi ₂ O ₃ · 4SeO ₂ (s)

$$\Delta H_{298}^0 = -1600.8 \pm 50.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [34]} \quad S_{298}^0 = 489.5 \pm 54.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [34]}$$

$$C_p^0 = [346.41] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Bi₂O₁₁Te₄ (s)	Bismuth Tellurium Oxide	Bi₂O₁₁Te₄ (s)
Bi ₂ O ₃ · 4TeO ₂ (s)		Bi ₂ O ₃ · 4TeO ₂ (s)

$$\Delta H_{298}^0 = -1875.3 \pm 28.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [37]} \quad S_{298}^0 = 448.5 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [37]}$$

$$C_p^0 = 380.15 + 73.48 \cdot 10^{-3} \cdot T - 2.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (673 ... 873 K) [37]}$$

Bi₂O₁₂S₃ (s) Bi ₂ (SO ₄) ₃ (s)	Bismuth Sulfate	Bi₂O₁₂S₃ (s) Bi ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -2543.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 228.45 + 169.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1148 K) [4]		$S_{298}^0 = 300 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi₂S₃ (s)	Bismuth Sulfide	Bi₂S₃ (s)
mp = 1048 K (775 °C) $\Delta H_{298}^0 = -201.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 114.47 + 27.7 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1048 K) [4]		$S_{298}^0 = 200.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi₂S₃ (s)	Bismuth Sulfide	Bi₂S₃ (s)
$\Delta H_{1048}^0 = -101.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1048}^0 = 365.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi₂S₃ (l)	Bismuth Sulfide	Bi₂S₃ (l)
$\Delta H_{1048}^0 = -22.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1048 K) [4]		$S_{1048}^0 = 440.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi₂Se (s)	Bismuth Selenide	Bi₂Se (s)
mp = 741 K (468 °C) $\Delta H_{298}^0 = -63.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [169.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [272]
Bi₂Se₃ (s)	Bismuth Selenide	Bi₂Se₃ (s)
mp = 995 K (722 °C) $\Delta H_{298}^0 = -140.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 118.53 + 19.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 995 K) [4]		$S_{298}^0 = 239.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Bi₂Se₃ (s)	Bismuth Selenide	Bi₂Se₃ (s)
$\Delta H_{995}^0 = -48.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{995}^0 = 396 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Bi₂Se₃ (l)	Bismuth Selenide	Bi₂Se₃ (l)
$\Delta H_{995}^0 = 37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{995}^0 = 483.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (995 K) [4]		
Bi₂Te (s)	Bismuth Telluride	Bi₂Te (s)
$\Delta H_{298}^0 = -27.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [175.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Bi₂Te₃ (s)	Bismuth Telluride	Bi₂Te₃ (s)
mp = 850 K (577 °C)		
$\Delta H_{298}^0 = -78.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 261.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.99 + 55.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 850 K) [4]		
Bi₂Te₃ (s)	Bismuth Telluride	Bi₂Te₃ (s)
$\Delta H_{850}^0 = -1.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{850}^0 = 404.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Bi₂Te₃ (l)	Bismuth Telluride	Bi₂Te₃ (l)
$\Delta H_{850}^0 = 118.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{850}^0 = 545.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (850 K) [4]		
Bi₂U (s)	Bismuth Uranium	Bi₂U (s)
$\Delta H_{298}^0 = -109 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 151.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Bi₃BrO₄ (s)	Bismuth Bromide Oxide	Bi₃BrO₄ (s)
Bi ₃ O ₄ Br (s)		Bi ₃ O ₄ Br (s)
$\Delta H_{298}^0 = -938.1 \pm 8.8 \text{ kJ}\cdot\text{mol}^{-1}$ [17]		$S_{298}^0 = 265.7 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [17]

Bi₃ClO₄ (s)	Bismuth Chloride Oxide	Bi₃ClO₄ (s)
Bi ₃ O ₄ Cl (s)		Bi ₃ O ₄ Cl (s)

$$\Delta H_{298}^0 = -989.9 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1} [39] \qquad S_{298}^0 = 279.5 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [39]$$

$$C_p^0 = 146.97 + 129.88 \cdot 10^{-3} \cdot T - 0.69 \cdot 10^6 \cdot T^{-2} - 50 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (110 \dots 723 \text{ K}) [39]$$

Bi₄Br₂O₅ (s)	Bismuth Bromide Oxide	Bi₄Br₂O₅ (s)
Bi ₄ O ₅ Br ₂ (s)		Bi ₄ O ₅ Br ₂ (s)

$$\Delta H_{298}^0 = -1274.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [17] \qquad S_{298}^0 = 370.3 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [17]$$

Bi₄Cl₂O₄Se (s)	Bismuth Selenide Chloride Oxide	Bi₄Cl₂O₄Se (s)
Bi ₄ O ₄ SeCl ₂ (s)		Bi ₄ O ₄ SeCl ₂ (s)

$$\Delta H_{298}^0 = -1247.3 \text{ kJ}\cdot\text{mol}^{-1} [47] \qquad S_{298}^0 = 348.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [47]$$

$$C_p^0 = 257.63 + 58.67 \cdot 10^{-3} \cdot T - 7.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [47]$$

Bi₄Cl₂O₅ (s)	Bismuth Chloride Oxide	Bi₄Cl₂O₅ (s)
Bi ₄ O ₅ Cl ₂ (s)		Bi ₄ O ₅ Cl ₂ (s)

$$\Delta H_{298}^0 = -1386.6 \pm 50.2 \text{ kJ}\cdot\text{mol}^{-1} [39] \qquad S_{298}^0 = 366.5 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [39]$$

$$C_p^0 = 223.02 + 142.68 \cdot 10^{-3} \cdot T - 1.09 \cdot 10^6 \cdot T^{-2} - 50 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (110 \dots 623 \text{ K}) [39]$$

Bi₄I₂O₅ (s)	Bismuth Iodide Oxide	Bi₄I₂O₅ (s)
Bi ₄ O ₅ I ₂ (s)		Bi ₄ O ₅ I ₂ (s)

mp = 1226 K (953 °C)

$$\Delta H_{298}^0 = -1148.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [18] \qquad S_{298}^0 = 367.1 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [18]$$

$$C_p^0 = 278.14 + 21.05 \cdot 10^{-3} \cdot T - 3.1 \cdot 10^6 \cdot T^{-2} - 5.94 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (323 \dots 523 \text{ K}) [18]$$

Bi₄U₃ (s)	Bismuth Uranium	Bi₄U₃ (s)
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$$\Delta H_{298}^0 = -385 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 342.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 183.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Bi₅IO₇ (s) Bi ₅ O ₇ I (s)	Bismuth Iodide Oxide	Bi₅IO₇ (s) Bi ₅ O ₇ I (s)
$\Delta H_{298}^0 = -1471.2 \pm 20.1 \text{ kJ}\cdot\text{mol}^{-1}$ [18]		$S_{298}^0 = 385.3 \pm 24.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [18]
$C_p^0 = 210.84 + 253.51 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} - 103.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 673 K) [18]		
Bi₇I₃O₉ (s) Bi ₇ O ₉ I ₃ (s)	Bismuth Iodide Oxide	Bi₇I₃O₉ (s) Bi ₇ O ₉ I ₃ (s)
mp = 1233 K (960 °C)		
$\Delta H_{298}^0 = -2022.5 \pm 34.3 \text{ kJ}\cdot\text{mol}^{-1}$ [18]		$S_{298}^0 = 619.8 \pm 41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [18]
$C_p^0 = 412.61 + 153.51 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} - 64.69 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (323 ... 723 K) [18]		
Bi₈Cl₆Se₉ (s) Bi ₈ Se ₉ Cl ₆ (s)	Bismuth Selenium Chloride	Bi₈Cl₆Se₉ (s) Bi ₈ Se ₉ Cl ₆ (s)
$\Delta H_{298}^0 = -1224.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [46]		$S_{298}^0 = 1128.4 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [46]
Bi₁₀Cl₄O₁₂Se (s) Bi ₁₀ O ₁₂ SeCl ₄ (s)	Bismuth Selenide Chloride Oxide	Bi₁₀Cl₄O₁₂Se (s) Bi ₁₀ O ₁₂ SeCl ₄ (s)
$\Delta H_{298}^0 = -3260.6 \text{ kJ}\cdot\text{mol}^{-1}$ [47]		$S_{298}^0 = 795 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [47]
$C_p^0 = 639.17 + 132.91 \cdot 10^{-3} \cdot T - 62.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [47]		
Bi₁₀O₁₉Se₂ (s) 5Bi ₂ O ₃ · 2SeO ₂ (s)	Bismuth Selenium Oxide	Bi₁₀O₁₉Se₂ (s) 5Bi ₂ O ₃ · 2SeO ₂ (s)
mp = 1168 K (895 °C)		
$\Delta H_{298}^0 = -3571.9 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [34]		$S_{298}^0 = 876.1 \pm 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [34]
$C_p^0 = 886.3 - 95.81 \cdot 10^{-3} \cdot T - 21.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [34]		
Bi₁₀O₁₉Te₂ (s) 5Bi ₂ O ₃ · 2TeO ₂ (s)	Bismuth Tellurium Oxide	Bi₁₀O₁₉Te₂ (s) 5Bi ₂ O ₃ · 2TeO ₂ (s)
$\Delta H_{298}^0 = -3581.9 \pm 36.4 \text{ kJ}\cdot\text{mol}^{-1}$ [37]		$S_{298}^0 = 905.8 \pm 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [37]
$C_p^0 = 727.94 + 105.46 \cdot 10^{-3} \cdot T - 5.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (673 ... 873 K) [37]		

Bi₁₂Cl₂O₁₇ (s) Bi ₁₂ O ₁₇ Cl ₂ (s)	Bismuth Chloride Oxide	Bi₁₂Cl₂O₁₇ (s) Bi ₁₂ O ₁₇ Cl ₂ (s)
$\Delta H_{298}^0 = -3718.7 \pm 30.1 \text{ kJ}\cdot\text{mol}^{-1}$ [39]		$S_{298}^0 = 960.6 \pm 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [39]
$C_p^0 = 585.52 + 527.39 \cdot 10^{-3} \cdot T - 3.17 \cdot 10^6 \cdot T^{-2} - 230 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (110 ... 773 K) [39]		
Bi₁₂O₂₀Se (s) 6Bi ₂ O ₃ · SeO ₂ (s)	Bismuth Selenium Oxide	Bi₁₂O₂₀Se (s) 6Bi ₂ O ₃ · SeO ₂ (s)
$\Delta H_{298}^0 = -3876.9 \pm 50.2 \text{ kJ}\cdot\text{mol}^{-1}$ [34]		$S_{298}^0 = 911.3 \pm 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [34]
$C_p^0 = 1673.81 - 1853.93 \cdot 10^{-3} \cdot T - 54.6 \cdot 10^6 \cdot T^{-2} + 1171.52 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [34]		
Bi₁₂O₂₀Te (s) 6Bi ₂ O ₃ · TeO ₂ (s)	Bismuth Tellurium Oxide	Bi₁₂O₂₀Te (s) 6Bi ₂ O ₃ · TeO ₂ (s)
$\Delta H_{298}^0 = -3772.3 \pm 34.3 \text{ kJ}\cdot\text{mol}^{-1}$ [37]		$S_{298}^0 = 983.2 \pm 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [37]
$C_p^0 = 782.3 + 106.18 \cdot 10^{-3} \cdot T - 6.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (673 ... 873 K) [37]		
Bi₁₆O₃₄Se₅ (s) 8Bi ₂ O ₃ · 5SeO ₂ (s)	Bismuth Selenium Oxide	Bi₁₆O₃₄Se₅ (s) 8Bi ₂ O ₃ · 5SeO ₂ (s)
$\Delta H_{298}^0 = -6251.7 \pm 75.3 \text{ kJ}\cdot\text{mol}^{-1}$ [34]		$S_{298}^0 = 1566.9 \pm 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [34]
Bi₁₆O₃₄Te₅ (s) 8Bi ₂ O ₃ · 5TeO ₂ (s)	Bismuth Tellurium Oxide	Bi₁₆O₃₄Te₅ (s) 8Bi ₂ O ₃ · 5TeO ₂ (s)
$\Delta H_{298}^0 = -6357.6 \pm 69.5 \text{ kJ}\cdot\text{mol}^{-1}$ [37]		$S_{298}^0 = 1583.2 \pm 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [37]
$C_p^0 = 1281.98 + 194.93 \cdot 10^{-3} \cdot T - 10.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (673 ... 873 K) [37]		
Bi₂₂Cl₈O₂₈Se (s) Bi ₂₂ O ₂₈ SeCl ₈ (s)	Bismuth Selenide Chloride Oxide	Bi₂₂Cl₈O₂₈Se (s) Bi ₂₂ O ₂₈ SeCl ₈ (s)
$\Delta H_{298}^0 = -7253.4 \text{ kJ}\cdot\text{mol}^{-1}$ [47]		$S_{298}^0 = 1702.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [47]
$C_p^0 = 1402.25 + 281.39 \cdot 10^{-3} \cdot T - 295.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [47]		

Bi₂₄Br₁₀O₃₁ (s) Bi ₂₄ O ₃₁ Br ₁₀ (s)	Bismuth Bromide Oxide	Bi₂₄Br₁₀O₃₁ (s) Bi ₂₄ O ₃₁ Br ₁₀ (s)
mp = 1239 K (966 °C)		
$\Delta H_{298}^0 = -7572.2 \pm 96.2 \text{ kJ}\cdot\text{mol}^{-1}$ [17]		$S_{298}^0 = 2190.3 \pm 117.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [17]
Bi₂₄Cl₁₀O₃₁ (s) Bi ₂₄ O ₃₁ Cl ₁₀ (s)	Bismuth Chloride Oxide	Bi₂₄Cl₁₀O₃₁ (s) Bi ₂₄ O ₃₁ Cl ₁₀ (s)
$\Delta H_{298}^0 = -8156.3 \pm 297.1 \text{ kJ}\cdot\text{mol}^{-1}$ [39]		$S_{298}^0 = 2165.2 \pm 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [39]
$C_p^0 = 1235.41 + 977.93 \cdot 10^{-3} \cdot T - 6.09 \cdot 10^6 \cdot T^{-2} - 340 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (110 ... 723 K) [39]		
Br (g)	Bromine	Br (g)
$\Delta H_{298}^0 = 111.9 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 175 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 19.87 + 1.49 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BrC (g) CBr (g)	Bromomethyldyne	BrC (g) CBr (g)
$\Delta H_{298}^0 = 510.4 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrCF₃ (g) CBrF ₃ (g)	Bromotrifluoromethane	BrCF₃ (g) CBrF ₃ (g)
$\Delta H_{298}^0 = -648.9 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 297.8 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 69.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrCN (g)	Cyanogen Bromide	BrCN (g)
$\Delta H_{298}^0 = 186.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 248.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 51.04 + 5.94 \cdot 10^{-3} \cdot T - 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		

BrCa (g) CaBr (g)	Calcium(I) Bromide	BrCa (g) CaBr (g)
$\Delta H_{298}^0 = -49.4 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 252.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.35 + 0.57 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BrCl (g)	Bromine Chloride	BrCl (g)
$\Delta H_{298}^0 = 14.6 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.15 + 0.59 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
BrCs (s) CsBr (s)	Cesium Bromide	BrCs (s) CsBr (s)
mp = 911 K (638 °C)		bp = 1573 K (1300 °C)
$\Delta H_{298}^0 = -405.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 50.38 + 8.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 911 K) [4]		
$\lg(p, K) = -10.84 \cdot 10^3 \cdot T^{-1} - 2.32 \cdot \lg(T) + 14.97$ (700 ... 911 K) [4]		
{Reaction: evaporation as CsBr(g)}		
BrCs (s) CsBr (s)	Cesium Bromide	BrCs (s) CsBr (s)
$\Delta H_{911}^0 = -371.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{911}^0 = 174.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BrCs (l) CsBr (l)	Cesium Bromide	BrCs (l) CsBr (l)
$\Delta H_{911}^0 = -347.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{911}^0 = 200.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (911 K) [4]		
$\lg(p, K) = -10.55 \cdot 10^3 \cdot T^{-1} - 4.69 \cdot \lg(T) + 21.66$ (911 ... 1586 K) [4]		
{Reaction: evaporation as CsBr(g)}		
BrCs (g) CsBr (g)	Cesium Bromide	BrCs (g) CsBr (g)
$\Delta H_{298}^0 = -204.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 268.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 + 0.86 \cdot 10^{-3} \cdot T - 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

BrCu (s) CuBr (s)	Copper(I) Bromide alpha	BrCu (s) CuBr (s)
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mp = 759 K (486 °C)

bp = 1677 K (1404 °C)

 $\Delta H_{298}^0 = -105.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 96.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = -52 + 206.4 \cdot 10^{-3} \cdot T + 4.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 657 K) [4]

BrCu (s) CuBr (s)	Copper(I) Bromide alpha	BrCu (s) CuBr (s)
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 $\Delta H_{657}^0 = -81.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{657}^0 = 147 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrCu (s) CuBr (s)	Copper(I) Bromide beta	BrCu (s) CuBr (s)
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 $\Delta H_{657}^0 = -76.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{657}^0 = 154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 73.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (657 K) [4]

BrCu (s) CuBr (s)	Copper(I) Bromide beta	BrCu (s) CuBr (s)
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 $\Delta H_{741}^0 = -70.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{741}^0 = 162.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrCu (s) CuBr (s)	Copper(I) Bromide gamma	BrCu (s) CuBr (s)
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 $\Delta H_{741}^0 = -68.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{741}^0 = 165.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 58.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (741 K) [4]

BrCu (s) CuBr (s)	Copper(I) Bromide gamma	BrCu (s) CuBr (s)
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 $\Delta H_{759}^0 = -67.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{759}^0 = 167.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrCu (l) CuBr (l)	Copper(I) Bromide	BrCu (l) CuBr (l)
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 $\Delta H_{759}^0 = -62.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{759}^0 = 173.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 45.95 + 3.49 \cdot 10^{-3} \cdot T - 8.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (759 K) [4]

BrCu (g) CuBr (g)	Copper(I) Bromide	BrCu (g) CuBr (g)
$\Delta H_{298}^0 = 122.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 248.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.31 + 0.59 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BrF (g)	Bromine(I) Fluoride	BrF (g)
$\Delta H_{298}^0 = -58.5 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 229 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.32 + 1 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
BrF₃ (g)	Bromine(III) Fluoride	BrF₃ (g)
$\Delta H_{298}^0 = -255.6 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 292.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.36 + 4.44 \cdot 10^{-3} \cdot T - 1.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [6]		
BrF₅ (g)	Bromine(V) Fluoride	BrF₅ (g)
$\Delta H_{298}^0 = -428.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 323.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 125.65 + 5.69 \cdot 10^{-3} \cdot T - 2.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [6]		
BrF₅S (g) SBrF ₅ (g)	Sulfur Bromide Fluoride	BrF₅S (g) SBrF ₅ (g)
$\Delta H_{298}^0 = -972.8 \pm 59 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 333.6 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrGa (g) GaBr (g)	Gallium(I) Bromide	BrGa (g) GaBr (g)
$\Delta H_{298}^0 = -49.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 252 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

BrH (g)	Hydrogen Bromide	BrH (g)
HBr (g)		HBr (g)
mp = 186 K (-87 °C)		bp = 206 K (-67 °C)
$\Delta H_{298}^0 = -36.4 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 198.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.53 + 4.59 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -2.74 \cdot 10^3 \cdot T^{-1} + 0.05 \cdot \lg(T) - 0.68$ (400 ... 2000 K) [4]		
{Reaction: decomposition HBr(g) = 1/2H ₂ (g) + 1/2Br ₂ (g)}		

BrH₃Si (g)	Bromosilane	BrH₃Si (g)
SiH ₃ Br (g)		SiH ₃ Br (g)
$\Delta H_{298}^0 = -78.2 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 262.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BrH₄N (s)	Ammonium Bromide	BrH₄N (s)
NH ₄ Br (s)	alpha	NH ₄ Br (s)
mp = 815 K (542 °C)		bp = 664 K (391 °C)
$\Delta H_{298}^0 = -270.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 111.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.68 - 35.15 \cdot 10^{-3} \cdot T - 2.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 413 K) [4]		

BrH₄N (s)	Ammonium Bromide	BrH₄N (s)
NH ₄ Br (s)	alpha	NH ₄ Br (s)
$\Delta H_{413}^0 = -260 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{413}^0 = 141.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrH₄N (s)	Ammonium Bromide	BrH₄N (s)
NH ₄ Br (s)	beta	NH ₄ Br (s)
$\Delta H_{413}^0 = -256.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{413}^0 = 150.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 98.32 - 3.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (413 ... 664 K) [4]		
$\lg(p,K) = -4.85 \cdot 10^3 \cdot T^{-1} - 0.59 \cdot \lg(T) + 8.67$ (413 ... 664 K) [4]		
{Reaction: decomposition NH ₄ Br(s) = NH ₃ (g) + HBr(g)}		

BrH₄P (s) PH ₄ Br (s)	Phosphonium Bromide	BrH₄P (s) PH ₄ Br (s)
$\Delta H_{298}^0 = -128 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
BrHg (g) HgBr (g)	Mercury(I) Bromide	BrHg (g) HgBr (g)
$\Delta H_{298}^0 = 104.2 \pm 38 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.41 + 1.14 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Brl (g) lBr (g)	Iodine(I) Bromide	Brl (g) lBr (g)
$\Delta H_{298}^0 = 40.9 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 259 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrlSn (s) SnBrl (s)	Tin Iodide Bromide	BrlSn (s) SnBrl (s)
$\Delta H_{298}^0 = -205 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [279]		$S_{298}^0 = [160.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [280]
$C_p^0 = [78.98] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
BrlSn (g) SnBrl (g)	Tin Iodide Bromide	BrlSn (g) SnBrl (g)
$\Delta H_{298}^0 = -70.3 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [279]		$S_{298}^0 = [339.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [280]
BrlIn (s) InBr (s)	Indium(I) Bromide	BrlIn (s) InBr (s)
mp = 558 K (285 °C)		
$\Delta H_{298}^0 = -175.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 112.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 43.51 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 558 K) [4]		
BrlIn (s) InBr (s)	Indium(I) Bromide	BrlIn (s) InBr (s)
$\Delta H_{558}^0 = -161.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{558}^0 = 145.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrIn (l) InBr (l)	Indium(I) Bromide	BrIn (l) InBr (l)
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$$\Delta H_{558}^0 = -144.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{558}^0 = 176.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 60.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (558 \text{ K}) [4]$$

BrIn (g) InBr (g)	Indium(I) Bromide	BrIn (g) InBr (g)
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$$\Delta H_{298}^0 = -56.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 259.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 37.57 + 0.42 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrK (s) KBr (s)	Potassium Bromide	BrK (s) KBr (s)
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$$\text{mp} = 1007 \text{ K} (734 \text{ }^\circ\text{C})$$

$$\text{bp} = 1669 \text{ K} (1396 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -393.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 95.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 69.16 - 45.56 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} + 45.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1007 \text{ K}) [4]$$

BrK (s) KBr (s)	Potassium Bromide	BrK (s) KBr (s)
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$$\Delta H_{1007}^0 = -352.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1007}^0 = 165.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BrK (l) KBr (l)	Potassium Bromide	BrK (l) KBr (l)
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$$\Delta H_{1007}^0 = -326.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1007}^0 = 190.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 69.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1007 \text{ K}) [4]$$

BrK (l) KBr (l)	Potassium Bromide	BrK (l) KBr (l)
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$$\Delta H_{298}^0 = -376.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 105.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 69.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BrK (g) KBr (g)	Potassium Bromide	BrK (g) KBr (g)
$\Delta H_{298}^0 = -180.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 250.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.41 + 0.86 \cdot 10^{-3} \cdot T - 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -11.73 \cdot 10^3 \cdot T^{-1} - 3.02 \cdot \lg(T) + 17.23$ (700 ... 1007 K) [4]		
{Reaction: evaporation of KBr(s)}		
BrK₃ (s) KBrO ₃ (s)	Potassium Bromate	BrK₃ (s) KBrO ₃ (s)
$\Delta H_{298}^0 = -360 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 149 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 105 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
BrLi (s) LiBr (s)	Lithium Bromide	BrLi (s) LiBr (s)
mp = 823 K (550 °C)		bp = 1563 K (1290 °C)
$\Delta H_{298}^0 = -351.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.64 + 22.79 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 823 K) [4]		
BrLi (s) LiBr (s)	Lithium Bromide	BrLi (s) LiBr (s)
$\Delta H_{823}^0 = -322.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 129.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BrLi (l) LiBr (l)	Lithium Bromide	BrLi (l) LiBr (l)
$\Delta H_{823}^0 = -304.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (823 K) [4]		
BrLi (l) LiBr (l)	Lithium Bromide	BrLi (l) LiBr (l)
$\Delta H_{298}^0 = -338.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 84.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

BrLi (g)	Lithium Bromide	BrLi (g)
LiBr (g)		LiBr (g)

$$\Delta H_{298}^0 = -154 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 224.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.77 + 1.04 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -10.77 \cdot 10^3 \cdot T^{-1} - 2.75 \cdot \lg(T) + 16.1 (700 \dots 823 \text{ K}) [4]$$

{Reaction: evaporation of LiBr(s)}

BrMg (g)	Magnesium(I) Bromide	BrMg (g)
MgBr (g)		MgBr (g)

$$\Delta H_{298}^0 = -35.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 244.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.28 + 0.57 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrMo (g)	Molybdenum(I) Bromide	BrMo (g)
MoBr (g)		MoBr (g)

$$\Delta H_{298}^0 = 457.3 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 269.5 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 38.86 - 3.7 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} + 1.7 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrN (g)	Nitrogen(I) Bromide	BrN (g)
NBr (g)		NBr (g)

$$\Delta H_{298}^0 = 300.8 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 235.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 32.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BrNO (g)	Nitrosyl Bromide	BrNO (g)
NOBr (g)		NOBr (g)

$$\text{mp} = 218 \text{ K } (-55 \text{ }^\circ\text{C})$$

$$\text{bp} = 272 \text{ K } (-1 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 82.1 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 273.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 51.02 + 3.39 \cdot 10^{-3} \cdot T - 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrNa (s)	Sodium Bromide	BrNa (s)
NaBr (s)		NaBr (s)

$$\text{mp} = 1020 \text{ K } (747 \text{ }^\circ\text{C})$$

$$\text{bp} = 1659 \text{ K } (1386 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -361.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 86.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 40.97 + 24.51 \cdot 10^{-3} \cdot T + 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1020 \text{ K}) [4]$$

BrNa (s) NaBr (s)	Sodium Bromide	BrNa (s) NaBr (s)
$\Delta H_{1020}^0 = -319.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1020}^0 = 156.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BrNa (l) NaBr (l)	Sodium Bromide	BrNa (l) NaBr (l)
$\Delta H_{1020}^0 = -292.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 68.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1020 K) [4]		$S_{1020}^0 = 182.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
BrNa (l) NaBr (l)	Sodium Bromide	BrNa (l) NaBr (l)
$\Delta H_{298}^0 = -339.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 62.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 104.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BrNa (g) NaBr (g)	Sodium Bromide	BrNa (g) NaBr (g)
$\Delta H_{298}^0 = -143.9 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.37 + 0.8 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -11.9 \cdot 10^3 \cdot T^{-1} - 2.96 \cdot \lg(T) + 17.04$ (700 ... 1020 K) [4] {Reaction: evaporation of NaBr(s)}		$S_{298}^0 = 241.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
BrNaO₃ (s) NaBrO ₃ (s)	Sodium Bromate	BrNaO₃ (s) NaBrO ₃ (s)
$\Delta H_{298}^0 = -334 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
BrNi (g) NiBr (g)	Nickel(I) Bromide	BrNi (g) NiBr (g)
$\Delta H_{298}^0 = 184.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 39.49 + 0.85 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 262.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

BrO (g)	Bromine Oxide	BrO (g)
$\Delta H_{298}^0 = 125.8 \pm 2.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrOPu (s) PuOBr (s)	Plutonium Bromide Oxide	BrOPu (s) PuOBr (s)
$\Delta H_{298}^0 = -870.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 80.67 + 23.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
BrO₂ (g) OBrO (g)	Bromine Oxide	BrO₂ (g) OBrO (g)
$\Delta H_{298}^0 = 152 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271.1 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 45.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrO₂ (g) BrOO (g)	Bromine Oxide	BrO₂ (g) BrOO (g)
$\Delta H_{298}^0 = 108 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 288.8 \pm 3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrO₃ (g)	Bromine Oxide	BrO₃ (g)
$\Delta H_{298}^0 = 221 \pm 50 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 284.5 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 60 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
BrO₃Re (g) ReO ₃ Br (g)	Rhenium Bromide Oxide	BrO₃Re (g) ReO ₃ Br (g)
$\Delta H_{298}^0 = -497.1 \pm 23.4 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 327.6 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 92.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

BrP (g)	Phosphorus(I) Bromide	BrP (g)
PBr (g)		PBr (g)

$$\Delta H_{298}^0 = 162.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 249.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 35.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

BrPb (g)	Lead(I) Bromide	BrPb (g)
PbBr (g)		PbBr (g)

$$\Delta H_{298}^0 = 70.9 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 272.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.17 + 0.85 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrRb (s)	Rubidium Bromide	BrRb (s)
RbBr (s)		RbBr (s)

$$\text{mp} = 965 \text{ K} (692 \text{ }^\circ\text{C})$$

$$\text{bp} = 1620 \text{ K} (1347 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -394.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 49.37 + 10.67 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 965 \text{ K}) [4]$$

$$\lg(p, K) = -11.16 \cdot 10^{-3} \cdot T^{-1} - 2.43 \cdot \lg(T) + 15.22 (700 \dots 965 \text{ K}) [4]$$

{Reaction: evaporation as RbBr(g)}

BrRb (s)	Rubidium Bromide	BrRb (s)
RbBr (s)		RbBr (s)

$$\Delta H_{965}^0 = -357.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{965}^0 = 175.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BrRb (l)	Rubidium Bromide	BrRb (l)
RbBr (l)		RbBr (l)

$$\Delta H_{965}^0 = -333.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{965}^0 = 199.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (965 \text{ K}) [4]$$

$$\lg(p, K) = -10.36 \cdot 10^{-3} \cdot T^{-1} - 3.42 \cdot \lg(T) + 17.33 (965 \dots 1632 \text{ K}) [4]$$

{Reaction: evaporation as RbBr(g)}

BrRb (g)	Rubidium Bromide	BrRb (g)
RbBr (g)		RbBr (g)

$$\Delta H_{298}^0 = -188.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 263.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.41 + 0.86 \cdot 10^{-3} \cdot T - 0.06 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrSi (g)	Silicon(I) Bromide	BrSi (g)
SiBr (g)		SiBr (g)

$$\Delta H_{298}^0 = 235.3 \pm 46 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 38.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 247.4 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

BrSr (g)	Strontium(I) Bromide	BrSr (g)
SrBr (g)		SrBr (g)

$$\Delta H_{298}^0 = -89.1 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 263.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.38 + 0.56 \cdot 10^{-3} \cdot T - 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

BrTi (g)	Titanium(I) Bromide	BrTi (g)
TiBr (g)		TiBr (g)

$$\Delta H_{298}^0 = 212.5 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 260.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.92 + 0.34 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1939 \text{ K}) [4]$$

BrTI (s)	Thallium(I) Bromide	BrTI (s)
TIBr (s)		TIBr (s)

$$\text{mp} = 733 \text{ K} (460 \text{ }^\circ\text{C})$$

$$\text{bp} = 1115 \text{ K} (842 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -172.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 41.63 + 29.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 733 \text{ K}) [4]$$

$$\lg(p, K) = -7.56 \cdot 10^3 \cdot T^{-1} - 2.75 \cdot \lg(T) + 15.61 (500 \dots 733 \text{ K}) [4]$$

{Reaction: evaporation as TIBr(g)}

BrTI (s)	Thallium(I) Bromide	BrTI (s)
TIBr (s)		TIBr (s)

$$\Delta H_{733}^0 = -147.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{733}^0 = 172.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

BrTI (l)	Thallium(I) Bromide	BrTI (l)
TIBr (l)		TIBr (l)

$$\Delta H_{733}^0 = -131.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{733}^0 = 195.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 105.65 - 37.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (733 \dots 1115 \text{ K}) [4]$$

$$\lg(p, K) = -7.07 \cdot 10^3 \cdot T^{-1} - 4.02 \cdot \lg(T) + 18.6 (733 \dots 1115 \text{ K}) [4]$$

{Reaction: evaporation as TIBr(g)}

BrTl (g) TlBr (g)	Thallium(I) Bromide	BrTl (g) TlBr (g)
$\Delta H_{298}^0 = -36.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 264.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.4 - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
BrW (g) WBr (g)	Tungsten(I) Bromide	BrW (g) WBr (g)
$\Delta H_{298}^0 = 586.2 \pm 84 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 272.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.66 + 1.31 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
BrZr (g) ZrBr (g)	Zirconium(I) Bromide	BrZr (g) ZrBr (g)
$\Delta H_{298}^0 = 301.2 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 265.6 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.65 + 4.95 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₂ (l)	Bromine	Br₂ (l)
mp = 265 K (-8 °C)		bp = 333 K (60 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 152.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 75.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 333 K) [4]		
$\lg(p,K) = -2.23 \cdot 10^3 \cdot T^{-1} - 4.72 \cdot \lg(T) + 18.6$ (298 ... 333 K) [4]		
{Reaction: evaporation as Br ₂ (g)}		
Br₂ (l)	Bromine	Br₂ (l)
$\Delta H_{333}^0 = 2.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{333}^0 = 160.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₂ (g)	Bromine	Br₂ (g)
$\Delta H_{333}^0 = 32.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{333}^0 = 249.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.03 + 0.88 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (333 ... 2000 K) [4]		
$\lg(p,K) = -4.97 \cdot 10^3 \cdot T^{-1} + 0.35 \cdot \lg(T) + 1.68$ (500 ... 2000 K) [4]		
{Reaction: Br ₂ (g) = 2Br(g)}		

Br₂ (g)	Bromine	Br₂ (g)
$\Delta H_{298}^0 = 30.9 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 245.4 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.36 + 0.46 \cdot 10^{-3} \cdot T - 1.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [3]		
Br₂Ca (s)	Calcium(II) Bromide	Br₂Ca (s)
CaBr ₂ (s)		CaBr ₂ (s)
mp = 1015 K (742 °C)		bp = 2081 K (1808 °C)
$\Delta H_{298}^0 = -683.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 129.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.23 + 9.58 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1015 K) [4]		
$\lg(p,K) = -16.12 \cdot 10^3 \cdot T^{-1} - 2.85 \cdot \lg(T) + 18.26$ (298 ... 1015 K) [4]		
{Reaction: evaporation as CaBr ₂ (g)}		
Br₂Ca (s)	Calcium(II) Bromide	Br₂Ca (s)
CaBr ₂ (s)		CaBr ₂ (s)
$\Delta H_{1015}^0 = -624.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1015}^0 = 228.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₂Ca (l)	Calcium(II) Bromide	Br₂Ca (l)
CaBr ₂ (l)		CaBr ₂ (l)
$\Delta H_{1015}^0 = -595.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1015}^0 = 257 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1015 K) [4]		
$\lg(p,K) = -16.03 \cdot 10^3 \cdot T^{-1} - 6.1 \cdot \lg(T) + 27.95$ (1015 ... 2081 K) [4]		
{Reaction: evaporation as CaBr ₂ (g)}		
Br₂Ca (g)	Calcium(II) Bromide	Br₂Ca (g)
CaBr ₂ (g)		CaBr ₂ (g)
$\Delta H_{298}^0 = -384.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 314.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.26 + 0.06 \cdot 10^{-3} \cdot T - 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2081 K) [4]		

Br₂Cd (s) CdBr ₂ (s)	Cadmium(II) Bromide	Br₂Cd (s) CdBr ₂ (s)
mp = 841 K (568 °C)		bp = 1137 K (864 °C)
$\Delta H_{298}^0 = -316.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 137.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.96 + 21.09 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 841 K) [4]		
$\lg(p, K) = -9.49 \cdot 10^3 \cdot T^{-1} - 3.41 \cdot \lg(T) + 19.49$ (500 ... 841 K) [4]		
{Reaction: evaporation as CdBr ₂ (g)}		

Br₂Cd (s) CdBr ₂ (s)	Cadmium(II) Bromide	Br₂Cd (s) CdBr ₂ (s)
$\Delta H_{841}^0 = -268.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 227.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₂Cd (l) CdBr ₂ (l)	Cadmium(II) Bromide	Br₂Cd (l) CdBr ₂ (l)
$\Delta H_{841}^0 = -225.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 277.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 101.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (841 ... 1137 K) [4]		
$\lg(p, K) = -7.92 \cdot 10^3 \cdot T^{-1} - 5.18 \cdot \lg(T) + 22.8$ (841 ... 1137 K) [4]		
{Reaction: evaporation as CdBr ₂ (g)}		

Br₂Cd (g) CdBr ₂ (g)	Cadmium(II) Bromide	Br₂Cd (g) CdBr ₂ (g)
$\Delta H_{298}^0 = -144.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 315.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.4 - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₂Co (s) CoBr ₂ (s)	Cobalt(II) Bromide	Br₂Co (s) CoBr ₂ (s)
mp = 951 K (678 °C)		bp = 1200 K (927 °C)
$\Delta H_{298}^0 = -215.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 133.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.39 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 648 K) [4]		

Br₂Cr (s)	Chromium(II) Bromide	Br₂Cr (s)
CrBr ₂ (s)		CrBr ₂ (s)

mp = 1115 K (842 °C)

bp = 1400 K (1127 °C)

 $\Delta H_{298}^0 = -302.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 134.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 65.9 + 22.18 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1115 K) [4]

Br₂Cu (s)	Copper(II) Bromide	Br₂Cu (s)
CuBr ₂ (s)		CuBr ₂ (s)

mp = 771 K (498 °C)

 $S_{298}^0 = 128.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $\Delta H_{298}^0 = -138.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 76.36 + 5.19 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 540 K) [4]

Br₂Eu (s)	Europium(II) Bromide	Br₂Eu (s)
EuBr ₂ (s)		EuBr ₂ (s)

mp = 956 K (683 °C)

bp = 2322 K (2049 °C)

 $\Delta H_{298}^0 = -719.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 136.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 77.4 + 16.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 956 K) [4]

Br₂Eu (s)	Europium(II) Bromide	Br₂Eu (s)
EuBr ₂ (s)		EuBr ₂ (s)

 $\Delta H_{956}^0 = -661.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{956}^0 = 238 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₂Eu (l)	Europium(II) Bromide	Br₂Eu (l)
EuBr ₂ (l)		EuBr ₂ (l)

 $\Delta H_{956}^0 = -636.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{956}^0 = 264.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (956 K) [4] $\lg(p, K) = -18.16 \cdot 10^3 \cdot T^{-1} - 5.39 \cdot \lg(T) + 25.97$ (1000 ... 2000 K) [4]{Reaction: evaporation as EuBr₂(g)}

Br₂Eu (g)	Europium(II) Bromide	Br₂Eu (g)
EuBr ₂ (g)		EuBr ₂ (g)

$$\Delta H_{298}^0 = -372.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 337.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 60.88 + 2.12 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Fe (s)	Iron(II) Bromide	Br₂Fe (s)
FeBr ₂ (s)	alpha	FeBr ₂ (s)

$$\text{mp} = 964 \text{ K (691 } ^\circ\text{C)}$$

$$\text{bp} = 1206 \text{ K (933 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -248.9 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 140.7 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 73.6 + 22.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 650 \text{ K}) [4]$$

Br₂Fe (s)	Iron(II) Bromide	Br₂Fe (s)
FeBr ₂ (s)	alpha	FeBr ₂ (s)

$$\Delta H_{650}^0 = -219.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{650}^0 = 205.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₂Fe (s)	Iron(II) Bromide	Br₂Fe (s)
FeBr ₂ (s)	beta	FeBr ₂ (s)

$$\Delta H_{650}^0 = -218.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{650}^0 = 206.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 73.6 + 22.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (650 \dots 964 \text{ K}) [4]$$

Br₂Fe (s)	Iron(II) Bromide	Br₂Fe (s)
FeBr ₂ (s)	beta	FeBr ₂ (s)

$$\Delta H_{964}^0 = -190.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{964}^0 = 242.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₂Fe (l)	Iron(II) Bromide	Br₂Fe (l)
FeBr ₂ (l)		FeBr ₂ (l)

$$\Delta H_{964}^0 = -140 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{964}^0 = 294.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (964 \text{ K}) [4]$$

Br₂Fe (l)	Iron(II) Bromide	Br₂Fe (l)
FeBr ₂ (l)		FeBr ₂ (l)

$$\Delta H_{298}^0 = -211 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 169.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Br₂Fe (g)	Iron(II) Bromide	Br₂Fe (g)
FeBr ₂ (g)		FeBr ₂ (g)

$$\Delta H_{298}^0 = -41.4 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 337.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 60.4 + 2.71 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.27 \cdot 10^3 \cdot T^{-1} - 3.49 \cdot \lg(T) + 20.68 (650 \dots 964 \text{ K}) [4]$$

{Reaction: evaporation of FeBr₂(s)}

Br₂Ge (g)	Germanium(II) Bromide	Br₂Ge (g)
GeBr ₂ (g)		GeBr ₂ (g)

$$\Delta H_{298}^0 = -62.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 331.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.85 + 0.22 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂H₂Si (g)	Dibromosilane	Br₂H₂Si (g)
SiH ₂ Br ₂ (g)		SiH ₂ Br ₂ (g)

$$\Delta H_{298}^0 = -190.4 \pm 17 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 310.1 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 65.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Br₂Hg (s)	Mercury(II) Bromide	Br₂Hg (s)
HgBr ₂ (s)		HgBr ₂ (s)

$$\text{mp} = 514 \text{ K} (241 \text{ }^\circ\text{C})$$

$$\text{bp} = 591 \text{ K} (318 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -170.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 172 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.65 + 29.2 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 514 \text{ K}) [4]$$

$$\lg(p, K) = -4.61 \cdot 10^3 \cdot T^{-1} - 2.12 \cdot \lg(T) + 13.93 (298 \dots 514 \text{ K}) [4]$$

{Reaction: evaporation as HgBr₂(g)}

Br₂Hg (s) HgBr ₂ (s)	Mercury(II) Bromide	Br₂Hg (s) HgBr ₂ (s)
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$$\Delta H_{514}^0 = -153.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{514}^0 = 214.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₂Hg (l) HgBr ₂ (l)	Mercury(II) Bromide	Br₂Hg (l) HgBr ₂ (l)
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$$\Delta H_{514}^0 = -135.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{514}^0 = 249.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (514 \text{ K}) [4]$$

Br₂Hg (l) HgBr ₂ (l)	Mercury(II) Bromide	Br₂Hg (l) HgBr ₂ (l)
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$$\Delta H_{298}^0 = -156.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 192.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Br₂Hg (g) HgBr ₂ (g)	Mercury(II) Bromide	Br₂Hg (g) HgBr ₂ (g)
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$$\Delta H_{298}^0 = -87.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 320.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 62.31 + 0.03 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Hg₂ (s) Hg ₂ Br ₂ (s)	Mercury(I) Bromide	Br₂Hg₂ (s) Hg ₂ Br ₂ (s)
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$$\Delta H_{298}^0 = -210.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 223.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 95.1 + 32.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 666 \text{ K}) [4]$$

Br₂K₂ (g) (KBr) ₂ (g)	Potassium Bromide	Br₂K₂ (g) (KBr) ₂ (g)
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$$\Delta H_{298}^0 = -535.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 376.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.14 + 5.41 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -14.19 \cdot 10^3 \cdot T^{-1} - 4.92 \cdot \lg(T) + 24.76 (800 \dots 1007 \text{ K}) [4]$$

{Reaction: evaporation of KBr(s)}

Br₂Li₂ (g)	Lithium Bromide	Br₂Li₂ (g)
(LiBr) ₂ (g)		(LiBr) ₂ (g)

$\Delta H_{298}^0 = -500.8 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 314.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.61 + 0.34 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -11.36 \cdot 10^{-3} \cdot T^{-1} - 4.6 \cdot \lg(T) + 22.57$ (700 ... 823 K) [4]	
{Reaction: evaporation of LiBr(s)}	

Br₂Mg (s)	Magnesium(II) Bromide	Br₂Mg (s)
MgBr ₂ (s)		MgBr ₂ (s)

mp = 984 K (711 °C)	bp = 1413 K (1140 °C)
$\Delta H_{298}^0 = -524.3 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 117.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70.51 + 18.07 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 984 K) [4]	

Br₂Mg (s)	Magnesium(II) Bromide	Br₂Mg (s)
MgBr ₂ (s)		MgBr ₂ (s)

$\Delta H_{984}^0 = -468.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{984}^0 = 213.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Br₂Mg (l)	Magnesium(II) Bromide	Br₂Mg (l)
MgBr ₂ (l)		MgBr ₂ (l)

$\Delta H_{984}^0 = -428.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{984}^0 = 253.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (984 K) [4]	

Br₂Mg (l)	Magnesium(II) Bromide	Br₂Mg (l)
MgBr ₂ (l)		MgBr ₂ (l)

$\Delta H_{298}^0 = -490.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 150.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

Br₂Mg (g)	Magnesium(II) Bromide	Br₂Mg (g)
MgBr ₂ (g)		MgBr ₂ (g)

$\Delta H_{298}^0 = -302.9 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 301 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.97 + 0.26 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -12.05 \cdot 10^3 \cdot T^{-1} - 2.86 \cdot \lg(T) + 18.19$ (700 ... 984 K) [4]	
{Reaction: evaporation of MgBr ₂ (s)}	

Br₂Mn (s)	Manganese(II) Bromide	Br₂Mn (s)
MnBr ₂ (s)		MnBr ₂ (s)

mp = 971 K (698 °C)	bp = 1300 K (1027 °C)
$\Delta H_{298}^0 = -384.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.91 + 24.81 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 971 K) [4]	

Br₂Mn (s)	Manganese(II) Bromide	Br₂Mn (s)
MnBr ₂ (s)		MnBr ₂ (s)

$\Delta H_{971}^0 = -328.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{971}^0 = 234.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Br₂Mn (l)	Manganese(II) Bromide	Br₂Mn (l)
MnBr ₂ (l)		MnBr ₂ (l)

$\Delta H_{971}^0 = -295.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{971}^0 = 269.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (971 K) [4]	

Br₂Mn (g)	Manganese(II) Bromide	Br₂Mn (g)
MnBr ₂ (g)		MnBr ₂ (g)

$\Delta H_{298}^0 = -175.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 318.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

Br₂Mo (s)	Molybdenum(II) Bromide	Br₂Mo (s)
MoBr ₂ (s)		MoBr ₂ (s)

$\Delta H_{298}^0 = -202.9 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 124.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.57 + 10.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1342 K) [4]	

Br₂Mo (g)	Molybdenum(II) Bromide	Br₂Mo (g)
MoBr ₂ (g)		MoBr ₂ (g)

$$\Delta H_{298}^0 = 166.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 321 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 77.12 - 11.75 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} + 2.6 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂MoO₂ (g)	Molybdenum Bromide Oxide	Br₂MoO₂ (g)
MoO ₂ Br ₂ (g)		MoO ₂ Br ₂ (g)

$$\Delta H_{298}^0 = -535.6 \text{ kJ}\cdot\text{mol}^{-1} [66]$$

$$S_{298}^0 = 366.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [66]$$

$$C_p^0 = 103.05 + 3.45 \cdot 10^{-3} \cdot T - 1.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [66]$$

Br₂Na₂ (g)	Sodium Bromide	Br₂Na₂ (g)
(NaBr) ₂ (g)		(NaBr) ₂ (g)

$$\Delta H_{298}^0 = -499 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 349 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.1 + 0.03 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -12.65 \cdot 10^3 \cdot T^{-1} - 5.08 \cdot \lg(T) + 24.67 (700 \dots 1020 \text{ K}) [4]$$

{Reaction: evaporation of NaBr(s)}

Br₂Ni (s)	Nickel(II) Bromide	Br₂Ni (s)
NiBr ₂ (s)		NiBr ₂ (s)

$$\text{mp} = 1236 \text{ K} (963 \text{ }^\circ\text{C})$$

$$\text{bp} = 1177 \text{ K} (904 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -211.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 122.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 72.32 + 14.63 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1177 \text{ K}) [4]$$

$$\lg(p, K) = -12.1 \cdot 10^3 \cdot T^{-1} - 2.27 \cdot \lg(T) + 17.26 (700 \dots 1177 \text{ K}) [4]$$

{Reaction: evaporation as NiBr₂(g)}

Br₂Ni (g)	Nickel(II) Bromide	Br₂Ni (g)
NiBr ₂ (g)		NiBr ₂ (g)

$$\Delta H_{298}^0 = 11.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 321.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 67.57 - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂O (g) BrOBr (g)	Bromine Oxide	Br₂O (g) BrOBr (g)
$\Delta H_{298}^0 = 107.6 \pm 3.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 50.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 290.8 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₂O (g) BrBrO (g)	Bromine Oxide	Br₂O (g) BrBrO (g)
$\Delta H_{298}^0 = 168 \pm 20 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 51.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 312.7 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₂OSe (s) SeOBr ₂ (s)	Selenium Bromide Oxide	Br₂OSe (s) SeOBr ₂ (s)
$\Delta H_{298}^0 = -156.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [45] $C_p^0 = 98.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [45]		$S_{298}^0 = 195 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [45]
Br₂OSe (l) SeOBr ₂ (l)	Selenium Bromide Oxide	Br₂OSe (l) SeOBr ₂ (l)
$\Delta H_{298}^0 = -143.5 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [45]		$S_{298}^0 = 237.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [45]
Br₂OSe (g) SeOBr ₂ (g)	Selenium Bromide Oxide	Br₂OSe (g) SeOBr ₂ (g)
$\Delta H_{298}^0 = -92.9 \pm 9.6 \text{ kJ}\cdot\text{mol}^{-1}$ [45]		$S_{298}^0 = 344.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [45]
Br₂OTe (g) TeOBr ₂ (g)	Tellurium Bromide Oxide	Br₂OTe (g) TeOBr ₂ (g)
$\Delta H_{298}^0 = -117.2 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [54]		$S_{298}^0 = 376.6 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [54]
Br₂OTh (s) ThOBr ₂ (s)	Thorium Bromide Oxide	Br₂OTh (s) ThOBr ₂ (s)
$\Delta H_{298}^0 = -1129.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 98.45 + 12.2 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1262 K) [4]		$S_{298}^0 = 131 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Br₂O_U (s) UOBr ₂ (s)	Uranium Bromide Oxide	Br₂O_U (s) UOBr ₂ (s)
$\Delta H_{298}^0 = -973.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 157.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 110.58 + 13.68 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Br₂O₂U (s) UO ₂ Br ₂ (s)	Uranyl Dibromide	Br₂O₂U (s) UO ₂ Br ₂ (s)
$\Delta H_{298}^0 = -1137.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 117.95 + 17.53 \cdot 10^{-3} \cdot T - 1.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Br₂O₂W (s) WO ₂ Br ₂ (s)	Tungsten Bromide Oxide	Br₂O₂W (s) WO ₂ Br ₂ (s)
$\Delta H_{298}^0 = -715.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [281]		
Br₂Pb (s) PbBr ₂ (s)	Lead(II) Bromide	Br₂Pb (s) PbBr ₂ (s)
mp = 644 K (371 °C)		bp = 1188 K (915 °C)
$\Delta H_{298}^0 = -277.4 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 161.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.68 + 47.33 \cdot 10^{-3} \cdot T + 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 644 K) [4]		
$\lg(p, K) = -9.56 \cdot 10^3 \cdot T^{-1} - 3.59 \cdot \lg(T) + 19.9$ (500 ... 644 K) [4]		
{Reaction: evaporation as PbBr ₂ (g)}		
Br₂Pb (s) PbBr ₂ (s)	Lead(II) Bromide	Br₂Pb (s) PbBr ₂ (s)
$\Delta H_{644}^0 = -248.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{644}^0 = 225.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₂Pb (l) PbBr ₂ (l)	Lead(II) Bromide	Br₂Pb (l) PbBr ₂ (l)
$\Delta H_{644}^0 = -231.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{644}^0 = 251.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (644 K) [4]		
$\lg(p, K) = -9.52 \cdot 10^3 \cdot T^{-1} - 6.51 \cdot \lg(T) + 28.03$ (644 ... 1188 K) [4]		
{Reaction: evaporation as PbBr ₂ (g)}		

Br₂Pb (g)	Lead(II) Bromide	Br₂Pb (g)
PbBr ₂ (g)		PbBr ₂ (g)

$$\Delta H_{298}^0 = -104.4 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 339.4 \pm 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 58.17 + 0.03 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Pd (g)	Palladium(II) Bromide	Br₂Pd (g)
PdBr ₂ (g)		PdBr ₂ (g)

$$\Delta H_{298}^0 = 156.9 \text{ kJ}\cdot\text{mol}^{-1} [73] \qquad S_{298}^0 = 320.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [73]$$

Br₂Pt (s)	Platinum(II) Bromide	Br₂Pt (s)
PtBr ₂ (s)		PtBr ₂ (s)

$$\Delta H_{298}^0 = -68.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 137.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 69.04 + 23.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 683 \text{ K}) [4]$$

$$\lg(p, K) = -5.48 \cdot 10^3 \cdot T^{-1} - 2.07 \cdot \lg(T) + 13.89 (400 \dots 683 \text{ K}) [4]$$

{Reaction: decomposition PtBr₂(s) = Pt(s) + Br₂(g)}

Br₂S (g)	Sulfur(II) Bromide	Br₂S (g)
SBr ₂ (g)		SBr ₂ (g)

$$\Delta H_{298}^0 = -12.6 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 301.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 57.88 + 0.17 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂S₂ (l)	Disulfur Dibromide	Br₂S₂ (l)
S ₂ Br ₂ (l)		S ₂ Br ₂ (l)

$$\text{mp} = 227 \text{ K} (-46 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -10.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 234.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

Br₂S₂ (g)	Disulfur Dibromide	Br₂S₂ (g)
S ₂ Br ₂ (g)		S ₂ Br ₂ (g)

$$\Delta H_{298}^0 = 31 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 350.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.36 + 2.71 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Se (g)	Selenium(II) Bromide	Br₂Se (g)
SeBr ₂ (g)		SeBr ₂ (g)

$$\Delta H_{298}^0 = -20.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 317.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 58.12 + 0.05 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Se₂ (l)	Diselenium Dibromide	Br₂Se₂ (l)
Se ₂ Br ₂ (l)		Se ₂ Br ₂ (l)

$$\Delta H_{298}^0 = -72.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 261.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$\lg(p, K) = -3.48 \cdot 10^3 \cdot T^{-1} - 5.99 \cdot \lg(T) + 22.53 (298 \dots 493 \text{ K}) [4]$$

{Reaction: evaporation as Se₂Br₂(g)}

Br₂Se₂ (g)	Diselenium Dibromide	Br₂Se₂ (g)
Se ₂ Br ₂ (g)		Se ₂ Br ₂ (g)

$$\Delta H_{298}^0 = 29.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 378.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.43 + 1.83 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Si (g)	Silicon(II) Bromide	Br₂Si (g)
SiBr ₂ (g)		SiBr ₂ (g)

$$\Delta H_{298}^0 = -52.3 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 305.2 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 57.85 + 0.21 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Sn (s)	Tin(II) Bromide	Br₂Sn (s)
SnBr ₂ (s)		SnBr ₂ (s)

$$\text{mp} = 504 \text{ K} (231 \text{ }^\circ\text{C})$$

$$\text{bp} = 912 \text{ K} (639 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -243.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 153 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 55.65 + 62.28 \cdot 10^{-3} \cdot T + 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 504 \text{ K}) [4]$$

$$\lg(p, K) = -7.8 \cdot 10^3 \cdot T^{-1} - 3.63 \cdot \lg(T) + 20.21 (400 \dots 504 \text{ K}) [4]$$

{Reaction: evaporation as SnBr₂(g)}

Br₂Sn (s) SnBr ₂ (s)	Tin(II) Bromide	Br₂Sn (s) SnBr ₂ (s)
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$$\Delta H_{504}^0 = -226.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{504}^0 = 196.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₂Sn (l) SnBr ₂ (l)	Tin(II) Bromide	Br₂Sn (l) SnBr ₂ (l)
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$$\Delta H_{504}^0 = -209.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{504}^0 = 230.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 103.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (504 \text{ K}) [4]$$

$$\lg(p, K) = -7.3 \cdot 10^3 \cdot T^{-1} - 5.48 \cdot \lg(T) + 24.23 (504 \dots 912 \text{ K}) [4]$$

{Reaction: evaporation as SnBr₂(g)}

Br₂Sn (g) SnBr ₂ (g)	Tin(II) Bromide	Br₂Sn (g) SnBr ₂ (g)
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$$\Delta H_{298}^0 = -103.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 335.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 58.14 + 1.34 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₂Sr (s) SrBr ₂ (s)	Strontium(II) Bromide alpha	Br₂Sr (s) SrBr ₂ (s)
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$$\text{mp} = 930 \text{ K} (657 \text{ }^\circ\text{C})$$

$$\text{bp} = 2363 \text{ K} (2090 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -718 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 143.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 69.13 + 22.94 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 918 \text{ K}) [4]$$

Br₂Sr (s) SrBr ₂ (s)	Strontium(II) Bromide alpha	Br₂Sr (s) SrBr ₂ (s)
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$$\Delta H_{918}^0 = -666.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{918}^0 = 235.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₂Sr (s) SrBr ₂ (s)	Strontium(II) Bromide beta	Br₂Sr (s) SrBr ₂ (s)
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$$\Delta H_{918}^0 = -656.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{918}^0 = 246.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 115.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (918 \text{ K}) [4]$$

Br₂Sr (s) SrBr ₂ (s)	Strontium(II) Bromide beta	Br₂Sr (s) SrBr ₂ (s)
$\Delta H_{930}^0 = -655.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{930}^0 = 247.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₂Sr (l) SrBr ₂ (l)	Strontium(II) Bromide	Br₂Sr (l) SrBr ₂ (l)
$\Delta H_{930}^0 = -645.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{930}^0 = 258.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 116.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (930 K) [4]		
$\lg(p,K) = -17.11 \cdot 10^3 \cdot T^{-1} - 6.51 \cdot \lg(T) + 29.21$ (930 ... 2000 K) [4]		
{Reaction: evaporation as SrBr ₂ (g)}		
Br₂Sr (l) SrBr ₂ (l)	Strontium(II) Bromide	Br₂Sr (l) SrBr ₂ (l)
$\Delta H_{298}^0 = -705.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Br₂Sr (g) SrBr ₂ (g)	Strontium(II) Bromide	Br₂Sr (g) SrBr ₂ (g)
$\Delta H_{298}^0 = -407.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 323.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.32 + 0.03 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₂Ti (s) TiBr ₂ (s)	Titanium(II) Bromide	Br₂Ti (s) TiBr ₂ (s)
		bp = 1208 K (935 °C)
$\Delta H_{298}^0 = -405.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 108.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.09 + 10.75 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1208 K) [4]		
Br₂Ti (g) TiBr ₂ (g)	Titanium(II) Bromide	Br₂Ti (g) TiBr ₂ (g)
$\Delta H_{298}^0 = -179.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 308.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.46 + 1.14 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₂Tl₂ (g)	Thallium(I) Bromide	Br₂Tl₂ (g)
Tl ₂ Br ₂ (g)		Tl ₂ Br ₂ (g)

$$\Delta H_{298}^0 = -167.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [254, 8]}$$

$$S_{298}^0 = 402 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [254, 8]}$$

Br₂V (s)	Vanadium(II) Bromide	Br₂V (s)
VBr ₂ (s)		VBr ₂ (s)

$$\text{mp} = 1100 \text{ K (827 } ^\circ\text{C)}$$

$$\text{bp} = 1500 \text{ K (1227 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -364.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 73.64 + 12.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1000 K) [4]}$$

Br₂Zn (s)	Zinc(II) Bromide	Br₂Zn (s)
ZnBr ₂ (s)		ZnBr ₂ (s)

$$\text{mp} = 675 \text{ K (402 } ^\circ\text{C)}$$

$$\text{bp} = 942 \text{ K (669 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -329.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 136 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 52.72 + 43.51 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 675 K) [4]}$$

$$\lg(p, K) = -7.92 \cdot 10^3 \cdot T^{-1} - 2.42 \cdot \lg(T) + 16.05 \text{ (500 ... 675 K) [4]}$$

{Reaction: evaporation as ZnBr₂(g)}

Br₂Zn (s)	Zinc(II) Bromide	Br₂Zn (s)
ZnBr ₂ (s)		ZnBr ₂ (s)

$$\Delta H_{675}^0 = -301.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{675}^0 = 195.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Br₂Zn (l)	Zinc(II) Bromide	Br₂Zn (l)
ZnBr ₂ (l)		ZnBr ₂ (l)

$$\Delta H_{675}^0 = -286.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{675}^0 = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 113.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (675 K) [4]}$$

$$\lg(p, K) = -8.35 \cdot 10^3 \cdot T^{-1} - 6.69 \cdot \lg(T) + 28.76 \text{ (675 ... 942 K) [4]}$$

{Reaction: evaporation as ZnBr₂(g)}

Br₂Zn (g) ZnBr ₂ (g)	Zinc(II) Bromide	Br₂Zn (g) ZnBr ₂ (g)
$\Delta H_{298}^0 = -185.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 303.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Br₂Zr (s) ZrBr ₂ (s)	Zirconium(II) Bromide	Br₂Zr (s) ZrBr ₂ (s)
$\Delta H_{298}^0 = -404.6 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		bp = 1553 K (1280 °C)
$C_p^0 = 83.3 + 11.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		$S_{298}^0 = 115.9 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₂Zr (l) ZrBr ₂ (l)	Zirconium(II) Bromide	Br₂Zr (l) ZrBr ₂ (l)
$\Delta H_{298}^0 = -342.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 184 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Br₂Zr (g) ZrBr ₂ (g)	Zirconium(II) Bromide	Br₂Zr (g) ZrBr ₂ (g)
$\Delta H_{298}^0 = -163.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 316.8 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.5 + 1.12 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₃Ce (s) CeBr ₃ (s)	Cerium(III) Bromide	Br₃Ce (s) CeBr ₃ (s)
mp = 1005 K (732 °C)		bp = 1766 K (1493 °C)
$\Delta H_{298}^0 = -855 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 96.34 + 23 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1005 K) [4]		
$\lg(p, K) = -14.14 \cdot 10^3 \cdot T^{-1} - 3.76 \cdot \lg(T) + 21.31$ (800 ... 1005 K) [4]		
{Reaction: evaporation as CeBr ₃ (g)}		
Br₃Ce (s) CeBr ₃ (s)	Cerium(III) Bromide	Br₃Ce (s) CeBr ₃ (s)
$\Delta H_{1005}^0 = -776.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1005}^0 = 339.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₃Ce (l)	Cerium(III) Bromide	Br₃Ce (l)
CeBr ₃ (l)		CeBr ₃ (l)

$$\Delta H_{1005}^0 = -741.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1005}^0 = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1005 \dots 1730 \text{ K}) [4]$$

$$\lg(p, K) = -13.74 \cdot 10^3 \cdot T^{-1} - 7.12 \cdot \lg(T) + 31 (1005 \dots 1730 \text{ K}) [4]$$

{Reaction: evaporation as CeBr₃(g)}

Br₃Ce (g)	Cerium(III) Bromide	Br₃Ce (g)
CeBr ₃ (g)		CeBr ₃ (g)

$$\Delta H_{298}^0 = -597.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 398.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 83.32 + 3.05 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₃Cr (s)	Chromium(III) Bromide	Br₃Cr (s)
CrBr ₃ (s)		CrBr ₃ (s)

$$\Delta H_{298}^0 = -432.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 159.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 99.34 + 8.71 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

Br₃Cu₃ (g)	Copper(I) Bromide	Br₃Cu₃ (g)
(CuBr) ₃ (g)		(CuBr) ₃ (g)

$$\Delta H_{298}^0 = -151.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 452 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 132.88 + 0.34 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.09 \cdot 10^3 \cdot T^{-1} - 13.07 \cdot \lg(T) + 48.52 (500 \dots 657 \text{ K}) [4]$$

{Reaction: evaporation of CuBr(s)}

Br₃Dy (s)	Dysprosium(III) Bromide	Br₃Dy (s)
DyBr ₃ (s)		DyBr ₃ (s)

$$\Delta H_{298}^0 = -834.3 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1} [266]$$

$$S_{298}^0 = [184.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [267]$$

Br₃Dy (g)	Dysprosium(III) Bromide	Br₃Dy (g)
DyBr ₃ (g)		DyBr ₃ (g)

$$\Delta H_{298}^0 = -540.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 404.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.36 + 2.85 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₃Er (s) ErBr ₃ (s)	Erbium(III) Bromide	Br₃Er (s) ErBr ₃ (s)
$\Delta H_{298}^0 = -837.1 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [184.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
Br₃Er (g) ErBr ₃ (g)	Erbium(III) Bromide	Br₃Er (g) ErBr ₃ (g)
$\Delta H_{298}^0 = -546 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 403.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.02 + 0.08 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₃Eu (s) EuBr ₃ (s)	Europium(III) Bromide	Br₃Eu (s) EuBr ₃ (s)
$\Delta H_{298}^0 = -753.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 182.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 105.18 + 24.45 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 663 K) [4]		
Br₃Fe (s) FeBr ₃ (s)	Iron(III) Bromide	Br₃Fe (s) FeBr ₃ (s)
$\Delta H_{298}^0 = -265.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [51]		$S_{298}^0 = 185.8 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [51]
Br₃Ga (s) GaBr ₃ (s)	Gallium(III) Bromide	Br₃Ga (s) GaBr ₃ (s)
mp = 396 K (123 °C)		bp = 552 K (279 °C)
$\Delta H_{298}^0 = -386.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 180 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.58 + 77.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 396 K) [4]		
Br₃Ga (s) GaBr ₃ (s)	Gallium(III) Bromide	Br₃Ga (s) GaBr ₃ (s)
$\Delta H_{396}^0 = -376.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{396}^0 = 209.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₃Ga (l) GaBr ₃ (l)	Gallium(III) Bromide	Br₃Ga (l) GaBr ₃ (l)
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$$\Delta H_{396}^0 = -364.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{396}^0 = 239.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 125.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (396 \text{ K}) [4]$$

Br₃Ga (g) GaBr ₃ (g)	Gallium(III) Bromide	Br₃Ga (g) GaBr ₃ (g)
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$$\Delta H_{298}^0 = -307 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 330.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$\lg(p, K) = -4.54 \cdot 10^3 \cdot T^{-1} - 2.92 \cdot \lg(T) + 16.39 (298 \dots 396 \text{ K}) [4]$$

{Reaction: evaporation of GaBr₃(s)}

Br₃Gd (s) GdBr ₃ (s)	Gadolinium(III) Bromide	Br₃Gd (s) GdBr ₃ (s)
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$$\text{mp} = 1058 \text{ K} (785 \text{ }^\circ\text{C})$$

$$\text{bp} = 1791 \text{ K} (1518 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -828.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 101.95 + 5.76 \cdot 10^{-3} \cdot T - 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1058 \text{ K}) [4]$$

$$\lg(p, K) = -16 \cdot 10^3 \cdot T^{-1} - 2.86 \cdot \lg(T) + 19.42 (800 \dots 1058 \text{ K}) [4]$$

{Reaction: evaporation as GdBr₃(g)}

Br₃Gd (s) GdBr ₃ (s)	Gadolinium(III) Bromide	Br₃Gd (s) GdBr ₃ (s)
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$$\Delta H_{1058}^0 = -749.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1058}^0 = 320.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₃Gd (l) GdBr ₃ (l)	Gadolinium(III) Bromide	Br₃Gd (l) GdBr ₃ (l)
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$$\Delta H_{1058}^0 = -701.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1058}^0 = 366.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 139.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1058 \text{ K}) [4]$$

$$\lg(p, K) = -15.25 \cdot 10^3 \cdot T^{-1} - 6.78 \cdot \lg(T) + 30.57 (1058 \dots 1791 \text{ K}) [4]$$

{Reaction: evaporation as GdBr₃(g)}

Br₃Gd (g)	Gadolinium(III) Bromide	Br₃Gd (g)
GdBr ₃ (g)		GdBr ₃ (g)

$\Delta H_{298}^0 = -531.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 398.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.04 + 0.07 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃HSi (g)	Tribromosilane	Br₃HSi (g)
SiHBr ₃ (g)		SiHBr ₃ (g)

$\Delta H_{298}^0 = -302.9 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 348.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 80.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

Br₃Ho (s)	Holmium(III) Bromide	Br₃Ho (s)
HoBr ₃ (s)		HoBr ₃ (s)

mp = 1192 K (919 °C)	bp = 1668 K (1395 °C)
$\Delta H_{298}^0 = -841 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 194.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 101.08 + 10.06 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1192 K) [4]	
$\lg(p, K) = -15.83 \cdot 10^3 \cdot T^{-1} - 3.29 \cdot \lg(T) + 20.81$ (800 ... 1192 K) [4]	
{Reaction: evaporation as HoBr ₃ (g)}	

Br₃Ho (s)	Holmium(III) Bromide	Br₃Ho (s)
HoBr ₃ (s)		HoBr ₃ (s)

$\Delta H_{1192}^0 = -745.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1192}^0 = 340.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Br₃Ho (l)	Holmium(III) Bromide	Br₃Ho (l)
HoBr ₃ (l)		HoBr ₃ (l)

$\Delta H_{1192}^0 = -695 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1192}^0 = 382.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 143.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1192 K) [4]	
$\lg(p, K) = -15.23 \cdot 10^3 \cdot T^{-1} - 7.2 \cdot \lg(T) + 32.33$ (1192 ... 1668 K) [4]	
{Reaction: evaporation as HoBr ₃ (g)}	

Br₃Ho (g)	Holmium(III) Bromide	Br₃Ho (g)
HoBr ₃ (g)		HoBr ₃ (g)

$\Delta H_{298}^0 = -548.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 404.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.79 + 1.7 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃In (s)	Indium(III) Bromide	Br₃In (s)
InBr ₃ (s)		InBr ₃ (s)

mp = 693 K (420 °C)	bp = 682 K (409 °C)
$\Delta H_{298}^0 = -410.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 178.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.01 + 54.39 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 682 K) [4]	
$\lg(p, K) = -7.11 \cdot 10^3 \cdot T^{-1} - 3.72 \cdot \lg(T) + 20.96$ (400 ... 682 K) [4]	
{Reaction: evaporation as InBr ₃ (g)}	

Br₃In (g)	Indium(III) Bromide	Br₃In (g)
InBr ₃ (g)		InBr ₃ (g)

$\Delta H_{298}^0 = -285.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 369.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.63 + 0.28 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃Ir (s)	Iridium(III) Bromide	Br₃Ir (s)
IrBr ₃ (s)		IrBr ₃ (s)

$\Delta H_{298}^0 = -177.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 127.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 99.38 + 20.35 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 846 K) [4]	

Br₃La (s)	Lanthanum(III) Bromide	Br₃La (s)
LaBr ₃ (s)		LaBr ₃ (s)

mp = 1061 K (788 °C)	bp = 1980 K (1707 °C)
$\Delta H_{298}^0 = -907.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 95.87 + 24.59 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1061 K) [4]	
$\lg(p, K) = -16.85 \cdot 10^3 \cdot T^{-1} - 4.28 \cdot \lg(T) + 23.76$ (900 ... 1061 K) [4]	
{Reaction: evaporation as LaBr ₃ (g)}	

Br₃La (s)	Lanthanum(III) Bromide	Br₃La (s)
LaBr ₃ (s)		LaBr ₃ (s)
$\Delta H^0_{1061} = -822 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1061} = 316.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₃La (l)	Lanthanum(III) Bromide	Br₃La (l)
LaBr ₃ (l)		LaBr ₃ (l)
$\Delta H^0_{1061} = -779.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1061} = 356.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 138.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1061 K) [4]		
$\lg(\rho, K) = -15.7 \cdot 10^3 \cdot T^{-1} - 6.63 \cdot \lg(T) + 29.78$ (1061 ... 1980 K) [4]		
{Reaction: evaporation as LaBr ₃ (g)}		

Br₃La (g)	Lanthanum(III) Bromide	Br₃La (g)
LaBr ₃ (g)		LaBr ₃ (g)
$\Delta H^0_{298} = -600.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 383.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.03 + 0.08 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₃Lu (s)	Lutetium(III) Bromide	Br₃Lu (s)
LuBr ₃ (s)		LuBr ₃ (s)
$\Delta H^0_{298} = -814 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S^0_{298} = [186.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]

Br₃Mo (s)	Molybdenum(III) Bromide	Br₃Mo (s)
MoBr ₃ (s)		MoBr ₃ (s)
$\Delta H^0_{298} = -283.7 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 174.5 \pm 17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 101.01 + 14.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1082 K) [4]		

Br₃Mo (g)	Molybdenum(III) Bromide	Br₃Mo (g)
MoBr ₃ (g)		MoBr ₃ (g)
$\Delta H^0_{298} = -8.4 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 375 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.94 + 2.52 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} + 0.03 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₃MoO (g)	Molybdenum Bromide Oxide	Br₃MoO (g)
MoOBr ₃ (g)		MoOBr ₃ (g)

$$\Delta H_{298}^0 = -320.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [66]}$$

$$S_{298}^0 = 389.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [66]}$$

$$C_p^0 = 106.69 - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [66]}$$

Br₃NaSn (g)	Sodium Tin Bromide	Br₃NaSn (g)
NaSnBr ₃ (g)		NaSnBr ₃ (g)

$$\Delta H_{298}^0 = -437.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [158, 8]}$$

$$S_{298}^0 = 417 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [158, 8]}$$

Br₃Nd (s)	Neodymium(III) Bromide	Br₃Nd (s)
NdBr ₃ (s)		NdBr ₃ (s)

$$\text{mp} = 955 \text{ K (682 } ^\circ\text{C)}$$

$$\text{bp} = 1859 \text{ K (1586 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -873.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 194.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 94.48 + 27.93 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 955 K) [4]}$$

$$\lg(p, K) = -16.12 \cdot 10^3 \cdot T^{-1} - 3.87 \cdot \lg(T) + 22.55 \text{ (800 ... 955 K) [4]}$$

{Reaction: evaporation as NdBr₃(g)}

Br₃Nd (s)	Neodymium(III) Bromide	Br₃Nd (s)
NdBr ₃ (s)		NdBr ₃ (s)

$$\Delta H_{955}^0 = -800.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{955}^0 = 320.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Br₃Nd (l)	Neodymium(III) Bromide	Br₃Nd (l)
NdBr ₃ (l)		NdBr ₃ (l)

$$\Delta H_{955}^0 = -766.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{955}^0 = 356.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (955 K) [4]}$$

$$\lg(p, K) = -16.02 \cdot 10^3 \cdot T^{-1} - 7.95 \cdot \lg(T) + 34.61 \text{ (955 ... 1859 K) [4]}$$

{Reaction: evaporation as NdBr₃(g)}

Br₃Nd (g)	Neodymium(III) Bromide	Br₃Nd (g)
NdBr ₃ (g)		NdBr ₃ (g)

$$\Delta H_{298}^0 = -578.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 401.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 83.52 + 3.92 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Br₃OP (l)	Phosphorus Tribromide Oxide	Br₃OP (l)
POBr ₃ (l)		POBr ₃ (l)

mp = 328 K (55 °C)

 $\Delta H_{298}^0 = -442.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 143.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p, K) = -3.39 \cdot 10^3 \cdot T^{-1} - 5.9 \cdot \lg(T) + 23.03$ (298 ... 466 K) [4]

{Reaction: evaporation}

bp = 466 K (193 °C)

 $S_{298}^0 = 250.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₃OP (g)	Phosphorus Tribromide Oxide	Br₃OP (g)
POBr ₃ (g)		POBr ₃ (g)

 $\Delta H_{298}^0 = -392.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 363.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 103.55 + 2.33 \cdot 10^{-3} \cdot T - 1.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Br₃OU (s)	Uranium Bromide Oxide	Br₃OU (s)
UOBr ₃ (s)		UOBr ₃ (s)

 $\Delta H_{298}^0 = -954 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 205 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 130.54 + 20.5 \cdot 10^{-3} \cdot T - 1.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]

Br₃P (l)	Phosphorus(III) Bromide	Br₃P (l)
PBr ₃ (l)		PBr ₃ (l)

mp = 232 K (-41 °C)

bp = 449 K (176 °C)

 $\Delta H_{298}^0 = -184.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 236 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 134.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p, K) = -3.43 \cdot 10^3 \cdot T^{-1} - 6.83 \cdot \lg(T) + 25.74$ (298 ... 449 K) [4]

{Reaction: evaporation}

Br₃P (g)	Phosphorus(III) Bromide	Br₃P (g)
PBr ₃ (g)		PBr ₃ (g)

 $\Delta H_{298}^0 = -135.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 348.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 82.81 + 0.18 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Br₃PS (g) PSBr ₃ (g)	Phosphorus Tribromide Sulfide	Br₃PS (g) PSBr ₃ (g)
$\Delta H_{298}^0 = -263.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 372.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 94.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Br₃Pm (s) PmBr ₃ (s)	Promethium(III) Bromide	Br₃Pm (s) PmBr ₃ (s)
$\Delta H_{298}^0 = -858 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [182.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
Br₃Pr (s) PrBr ₃ (s)	Praseodymium(III) Bromide	Br₃Pr (s) PrBr ₃ (s)
mp = 966 K (693 °C)		bp = 1909 K (1636 °C)
$\Delta H_{298}^0 = -891.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 97.61 + 28.76 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 966 K) [4]		
$\lg(p, K) = -16.28 \cdot 10^3 \cdot T^{-1} - 4.36 \cdot \lg(T) + 24.06$ (800 ... 966 K) [4]		
{Reaction: evaporation as PrBr ₃ (g)}		
Br₃Pr (s) PrBr ₃ (s)	Praseodymium(III) Bromide	Br₃Pr (s) PrBr ₃ (s)
$\Delta H_{966}^0 = -814.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{966}^0 = 324.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₃Pr (l) PrBr ₃ (l)	Praseodymium(III) Bromide	Br₃Pr (l) PrBr ₃ (l)
$\Delta H_{966}^0 = -776.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{966}^0 = 364.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (966 K) [4]		
$\lg(p, K) = -15.31 \cdot 10^3 \cdot T^{-1} - 6.83 \cdot \lg(T) + 30.43$ (966 ... 1909 K) [4]		
{Reaction: evaporation as PrBr ₃ (g)}		
Br₃Pr (g) PrBr ₃ (g)	Praseodymium(III) Bromide	Br₃Pr (g) PrBr ₃ (g)
$\Delta H_{298}^0 = -594.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 401.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.97 + 5.34 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₃Pt (s)	Platinum(III) Bromide	Br₃Pt (s)
PtBr ₃ (s)		PtBr ₃ (s)

$$\Delta H_{298}^0 = -116.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 164.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 92.89 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 678 \text{ K}) [4]$$

Br₃Pu (s)	Plutonium(III) Bromide	Br₃Pu (s)
PuBr ₃ (s)		PuBr ₃ (s)

$$\text{mp} = 954 \text{ K (681 } ^\circ\text{C)}$$

$$\text{bp} = 1763 \text{ K (1490 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -793.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 234.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 101.63 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 954 \text{ K}) [4]$$

$$\lg(p, K) = -17.46 \cdot 10^3 \cdot T^{-1} - 5.34 \cdot \lg(T) + 28.45 (800 \dots 954 \text{ K}) [4]$$

{Reaction: evaporation as PuBr₃(g)}

Br₃Pu (s)	Plutonium(III) Bromide	Br₃Pu (s)
PuBr ₃ (s)		PuBr ₃ (s)

$$\Delta H_{954}^0 = -718 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{954}^0 = 366.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₃Pu (l)	Plutonium(III) Bromide	Br₃Pu (l)
PuBr ₃ (l)		PuBr ₃ (l)

$$\Delta H_{954}^0 = -662 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{954}^0 = 425.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 138.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (954 \text{ K}) [4]$$

$$\lg(p, K) = -15.03 \cdot 10^3 \cdot T^{-1} - 6.45 \cdot \lg(T) + 29.47 (954 \dots 1763 \text{ K}) [4]$$

{Reaction: evaporation as PuBr₃(g)}

Br₃Re (s)	Rhenium(III) Bromide	Br₃Re (s)
ReBr ₃ (s)		ReBr ₃ (s)

$$\Delta H_{298}^0 = -175.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 80.33 + 68.2 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 600 \text{ K}) [4]$$

Br₃Re (g)	Rhenium(III) Bromide	Br₃Re (g)
ReBr ₃ (g)		ReBr ₃ (g)

$$\Delta H_{298}^0 = -106.7 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [50]}$$

$$S_{298}^0 = 391.2 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [50]}$$

$$C_p^0 = 75.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [50]}$$

Br₃Rh (s)	Rhodium(III) Bromide	Br₃Rh (s)
RhBr ₃ (s)		RhBr ₃ (s)

$$\Delta H_{298}^0 = -210.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 113.81 + 27.61 \cdot 10^{-3} \cdot T - 1.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1000 K) [4]}$$

Br₃Sb (s)	Antimony(III) Bromide	Br₃Sb (s)
SbBr ₃ (s)		SbBr ₃ (s)

$$\text{mp} = 370 \text{ K (97 }^\circ\text{C)}$$

$$\text{bp} = 562 \text{ K (289 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -259.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 210 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

$$\lg(p, K) = -4.7 \cdot 10^3 \cdot T^{-1} - 3.91 \cdot \lg(T) + 19.86 \text{ (298 ... 370 K) [4]}$$

{Reaction: evaporation as SbBr₃(g)}

Br₃Sb (s)	Antimony(III) Bromide	Br₃Sb (s)
SbBr ₃ (s)		SbBr ₃ (s)

$$\Delta H_{370}^0 = -251.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{370}^0 = 234.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Br₃Sb (l)	Antimony(III) Bromide	Br₃Sb (l)
SbBr ₃ (l)		SbBr ₃ (l)

$$\Delta H_{370}^0 = -236.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{370}^0 = 274 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 125.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (370 K) [4]}$$

$$\lg(p, K) = -4.15 \cdot 10^3 \cdot T^{-1} - 5.28 \cdot \lg(T) + 21.91 \text{ (370 ... 562 K) [4]}$$

{Reaction: evaporation as SbBr₃(g)}

Br₃Sb (g)	Antimony(III) Bromide	Br₃Sb (g)
SbBr ₃ (g)		SbBr ₃ (g)

$$\Delta H_{298}^0 = -179.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 372.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.96 + 0.18 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₃Sc (s)	Scandium(III) Bromide	Br₃Sc (s)
ScBr ₃ (s)		ScBr ₃ (s)

$$\Delta H_{298}^0 = -711.3 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad \text{bp} = 1202 \text{ K (929 } ^\circ\text{C)}$$

$$C_p^0 = 87.86 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1202 \text{ K}) [4] \qquad S_{298}^0 = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$\lg(p, K) = -15.94 \cdot 10^3 \cdot T^{-1} - 4.19 \cdot \lg(T) + 26.17 (700 \dots 1202 \text{ K}) [4]$$

{Reaction: evaporation as ScBr₃(g)}

Br₃Sc (g)	Scandium(III) Bromide	Br₃Sc (g)
ScBr ₃ (g)		ScBr ₃ (g)

$$\Delta H_{298}^0 = -425.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 419.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 80.71 + 2.81 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₃Si (g)	Silicon(III) Bromide	Br₃Si (g)
SiBr ₃ (g)		SiBr ₃ (g)

$$\Delta H_{298}^0 = -201.7 \pm 63 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 351.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 82.35 + 0.46 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₃Sm (s)	Samarium(III) Bromide	Br₃Sm (s)
SmBr ₃ (s)		SmBr ₃ (s)

$$\Delta H_{298}^0 = -853.4 \pm 3 \text{ kJ}\cdot\text{mol}^{-1} [266] \qquad S_{298}^0 = [183.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [267]$$

$$C_p^0 = [102.93] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [188]$$

Br₃Tb (s)	Terbium(III) Bromide	Br₃Tb (s)
TbBr ₃ (s)		TbBr ₃ (s)

$$\Delta H_{298}^0 = -843.5 \pm 3 \text{ kJ}\cdot\text{mol}^{-1} [266] \qquad S_{298}^0 = [184.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [267]$$

Br₃Tb (g)	Terbium(III) Bromide	Br₃Tb (g)
TbBr ₃ (g)		TbBr ₃ (g)

$\Delta H_{298}^0 = -540.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 402.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.01 + 4.69 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃Ti (s)	Titanium(III) Bromide	Br₃Ti (s)
TiBr ₃ (s)		TiBr ₃ (s)

$\Delta H_{298}^0 = -550.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 176.4 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.07 + 87.25 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1066 K) [4]	

Br₃Ti (g)	Titanium(III) Bromide	Br₃Ti (g)
TiBr ₃ (g)		TiBr ₃ (g)

$\Delta H_{298}^0 = -374.9 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 359.1 \pm 5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 88.72 - 1.64 \cdot 10^{-3} \cdot T - 0.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃Tm (s)	Thulium(III) Bromide	Br₃Tm (s)
TmBr ₃ (s)		TmBr ₃ (s)

$\Delta H_{298}^0 = -832 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]	$S_{298}^0 = [185.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
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Br₃Tm (g)	Thulium(III) Bromide	Br₃Tm (g)
TmBr ₃ (g)		TmBr ₃ (g)

mp = 1225 K (952 °C)	bp = 1710 K (1437 °C)
$\Delta H_{298}^0 = -545.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 401.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.01 + 0.08 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₃U (s)	Uranium(III) Bromide	Br₃U (s)
UBr ₃ (s)		UBr ₃ (s)

mp = 1000 K (727 °C)	bp = 1852 K (1579 °C)
$\Delta H_{298}^0 = -699.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]	
$\lg(p, K) = -16.87 \cdot 10^3 \cdot T^{-1} - 5.26 \cdot \lg(T) + 27.24$ (900 ... 1000 K) [4]	
{Reaction: evaporation as UBr ₃ (g)}	

Br₃U (s) UBr ₃ (s)	Uranium(III) Bromide	Br₃U (s) UBr ₃ (s)
$\Delta H^0_{1000} = -615.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1000} = 334.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₃U (l) UBr ₃ (l)	Uranium(III) Bromide	Br₃U (l) UBr ₃ (l)
$\Delta H^0_{1000} = -577.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1000} = 372 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 132.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1000 K) [4]		
$\lg(p, K) = -15.07 \cdot 10^3 \cdot T^{-1} - 5.68 \cdot \lg(T) + 26.7$ (1000 ... 1852 K) [4]		
{Reaction: evaporation as UBr ₃ (g)}		

Br₃U (g) UBr ₃ (g)	Uranium(III) Bromide	Br₃U (g) UBr ₃ (g)
$\Delta H^0_{298} = -394.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 410 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.94 + 2.52 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} + 0.03 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₃V (s) VBr ₃ (s)	Vanadium(III) Bromide	Br₃V (s) VBr ₃ (s)
$\Delta H^0_{298} = -446 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 142.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 92.05 + 32.22 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 816 K) [4]		

Br₃Yb (s) YbBr ₃ (s)	Ytterbium(III) Bromide	Br₃Yb (s) YbBr ₃ (s)
$\Delta H^0_{298} = -791.9 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S^0_{298} = [185.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]

Br₃Zr (s) ZrBr ₃ (s)	Zirconium(III) Bromide	Br₃Zr (s) ZrBr ₃ (s)
$\Delta H^0_{298} = -598.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 172 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 106.41 - 0.22 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 810 K) [4]		

Br₃Zr (g)	Zirconium(III) Bromide	Br₃Zr (g)
ZrBr ₃ (g)		ZrBr ₃ (g)

$$\Delta H_{298}^0 = -393.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 371.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 83.01 + 0.09 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Br₄C (s)	Carbon(IV) Bromide alpha	Br₄C (s)
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$$\text{mp} = 363 \text{ K (90 }^\circ\text{C)}$$

$$\text{bp} = 462 \text{ K (189 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = 18.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 212.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 114.97 + 107.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 320 K) [4]}$$

$$\lg(p, K) = -4.06 \cdot 10^3 \cdot T^{-1} - 6.75 \cdot \lg(T) + 27.24 \text{ (298 ... 320 K) [4]}$$

{Reaction: evaporation}

Br₄C (s)	Carbon(IV) Bromide alpha	Br₄C (s)
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$$\Delta H_{320}^0 = 21.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{320}^0 = 223 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Br₄C (s)	Carbon(IV) Bromide beta	Br₄C (s)
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$$\Delta H_{320}^0 = 27.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{320}^0 = 241.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 236.62 - 165.65 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (320 ... 363 K) [4]}$$

$$\lg(p, K) = -4.24 \cdot 10^3 \cdot T^{-1} - 10.3 \cdot \lg(T) + 36.71 \text{ (320 ... 363 K) [4]}$$

{Reaction: evaporation}

Br₄C (s)	Carbon(IV) Bromide beta	Br₄C (s)
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$$\Delta H_{363}^0 = 35.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{363}^0 = 264.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Br₄C (l)	Carbon(IV) Bromide	Br₄C (l)
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$$\Delta H_{363}^0 = 39.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{363}^0 = 275.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 153.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (363 \text{ K}) [4]$$

$$\lg(p, K) = -3.46 \cdot 10^3 \cdot T^{-1} - 6.66 \cdot \lg(T) + 25.24 (363 \dots 462 \text{ K}) [4]$$

{Reaction: evaporation}

Br₄C (l)	Carbon(IV) Bromide	Br₄C (l)
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$$\Delta H_{462}^0 = 54.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{462}^0 = 312 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₄C (g)	Carbon(IV) Bromide	Br₄C (g)
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$$\Delta H_{462}^0 = 95.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{462}^0 = 400.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 104.36 + 2.54 \cdot 10^{-3} \cdot T - 1.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (462 \dots 1500 \text{ K}) [4]$$

Br₄C (g)	Carbon(IV) Bromide	Br₄C (g)
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$$\Delta H_{298}^0 = 79.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 358.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 104.36 + 2.54 \cdot 10^{-3} \cdot T - 1.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

Br₄Cr (g)	Chromium(IV) Bromide	Br₄Cr (g) CrBr ₄ (g)
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$$\Delta H_{298}^0 = -258.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 417.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 107.64 + 0.34 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₄Fe₂ (g) (FeBr ₂) ₂ (g)	Iron(II) Bromide	Br₄Fe₂ (g) (FeBr ₂) ₂ (g)
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$$\Delta H_{298}^0 = -253.1 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 516 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 130.92 + 2.95 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -13.79 \cdot 10^3 \cdot T^{-1} - 6.01 \cdot \lg(T) + 30.29 (650 \dots 964 \text{ K}) [4]$$

{Reaction: evaporation of FeBr₂(s)}

Br₄Ge (l)	Germanium(IV) Bromide	Br₄Ge (l)
GeBr ₄ (l)		GeBr ₄ (l)
mp = 299 K (26 °C)		bp = 462 K (189 °C)
$\Delta H_{298}^0 = -347.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 280.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

Br₄Ge (g)	Germanium(IV) Bromide	Br₄Ge (g)
GeBr ₄ (g)		GeBr ₄ (g)
$\Delta H_{298}^0 = -296.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 396.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.28 - 0.74 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₄Hf (s)	Hafnium(IV) Bromide	Br₄Hf (s)
HfBr ₄ (s)		HfBr ₄ (s)
		bp = 547 K (274 °C)
$\Delta H_{298}^0 = -766.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 238.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.7 + 63.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 597 K) [4]		
$\lg(p, K) = -6.24 \cdot 10^3 \cdot T^{-1} - 3.79 \cdot \lg(T) + 20.97$ (400 ... 597 K) [4]		
{Reaction: evaporation as HfBr ₄ (g)}		

Br₄Hf (g)	Hafnium(IV) Bromide	Br₄Hf (g)
HfBr ₄ (g)		HfBr ₄ (g)
$\Delta H_{298}^0 = -656.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 427.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.99 + 0.13 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Br₄Mg₂ (g)	Magnesium(II) Bromide	Br₄Mg₂ (g)
(MgBr ₂) ₂ (g)		(MgBr ₂) ₂ (g)
$\Delta H_{298}^0 = -767.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 461.3 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 132.97 + 0.03 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -15.53 \cdot 10^3 \cdot T^{-1} - 4.65 \cdot \lg(T) + 25.98$ (800 ... 984 K) [4]		
{Reaction: evaporation of MgBr ₂ (s)}		

Br₄Mn₂ (g) Mn ₂ Br ₄ (g)	Manganese(II) Bromide	Br₄Mn₂ (g) Mn ₂ Br ₄ (g)
$\Delta H_{298}^0 = -519 \text{ kJ}\cdot\text{mol}^{-1}$ [58]		$S_{298}^0 = 506.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [58]
Br₄Mo (s) MoBr ₄ (s)	Molybdenum(IV) Bromide	Br₄Mo (s) MoBr ₄ (s)
$\Delta H_{298}^0 = -304.2 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 133.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 209.2 \pm 17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₄Mo (g) MoBr ₄ (g)	Molybdenum(IV) Bromide	Br₄Mo (g) MoBr ₄ (g)
$\Delta H_{298}^0 = -171.1 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 108 - 0.03 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} + 0.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 418.9 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₄MoO (g) MoOBr ₄ (g)	Molybdenum Bromide Oxide	Br₄MoO (g) MoOBr ₄ (g)
$\Delta H_{298}^0 = -384.9 \text{ kJ}\cdot\text{mol}^{-1}$ [66] $C_p^0 = 133.89 - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [66]		$S_{298}^0 = 431 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [66]
Br₄Pb (g) PbBr ₄ (g)	Lead(IV) Bromide	Br₄Pb (g) PbBr ₄ (g)
$\Delta H_{298}^0 = -456.4 \pm 84 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 108 + 0.05 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 426.2 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Br₄Pt (s) PtBr ₄ (s)	Platinum(IV) Bromide	Br₄Pt (s) PtBr ₄ (s)
$\Delta H_{298}^0 = -130 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 150.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 233.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₄Se (s)	Selenium(IV) Bromide	Br₄Se (s)
SeBr ₄ (s)		SeBr ₄ (s)

$$\Delta H_{298}^0 = -73.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [45]}$$

$$S_{298}^0 = 265.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [45]}$$

$$C_p^0 = 134.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [45]}$$

Br₄Si (l)	Silicon(IV) Bromide	Br₄Si (l)
SiBr ₄ (l)		SiBr ₄ (l)

$$\text{mp} = 278 \text{ K (5 }^\circ\text{C)}$$

$$\text{bp} = 426 \text{ K (153 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -457.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 278.2 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

Br₄Si (g)	Silicon(IV) Bromide	Br₄Si (g)
SiBr ₄ (g)		SiBr ₄ (g)

$$\Delta H_{298}^0 = -415.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 379.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 106.95 + 0.67 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Br₄Sn (s)	Tin(IV) Bromide	Br₄Sn (s)
SnBr ₄ (s)		SnBr ₄ (s)

$$\text{mp} = 306 \text{ K (33 }^\circ\text{C)}$$

$$\text{bp} = 480 \text{ K (207 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -405.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 264.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 136.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

Br₄Sn (l)	Tin(IV) Bromide	Br₄Sn (l)
SnBr ₄ (l)		SnBr ₄ (l)

$$\Delta H_{298}^0 = -401.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 295.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 158.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

$$\lg(p, K) = -3.74 \cdot 10^3 \cdot T^{-1} - 6.52 \cdot \lg(T) + 25.27 \text{ (298 ... 480 K) [4]}$$

{Reaction: evaporation as SnBr₄(g)}

Br₄Sn (g)	Tin(IV) Bromide	Br₄Sn (g)
SnBr ₄ (g)		SnBr ₄ (g)

$\Delta H_{298}^0 = -347.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 412.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.52 + 0.64 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Br₄Te (s)	Tellurium(IV) Bromide	Br₄Te (s)
TeBr ₄ (s)		TeBr ₄ (s)

mp = 388 K (115 °C)	
$\Delta H_{298}^0 = -190.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 243.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 129.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

Br₄Th (s)	Thorium(IV) Bromide alpha	Br₄Th (s)
ThBr ₄ (s)		ThBr ₄ (s)

mp = 970 K (697 °C)	bp = 1126 K (853 °C)
$\Delta H_{298}^0 = -965.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 221 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 126.94 + 16.06 \cdot 10^{-3} \cdot T - 0.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 693 K) [4]	

Br₄Th (s)	Thorium(IV) Bromide alpha	Br₄Th (s)
ThBr ₄ (s)		ThBr ₄ (s)

$\Delta H_{693}^0 = -913.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{693}^0 = 331.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 136.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (693 K) [4]	

Br₄Th (s)	Thorium(IV) Bromide beta	Br₄Th (s)
ThBr ₄ (s)		ThBr ₄ (s)

$\Delta H_{693}^0 = -909.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{693}^0 = 337.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 127.63 + 15.1 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (693 ... 970 K) [4]	
$\lg(p, K) = -11.12 \cdot 10^3 \cdot T^{-1} - 3.8 \cdot \lg(T) + 21.96$ (693 ... 970 K) [4]	
{Reaction: evaporation as ThBr ₄ (g)}	

Br₄Th (s) ThBr ₄ (s)	Thorium(IV) Bromide beta	Br₄Th (s) ThBr ₄ (s)
$\Delta H_{970}^0 = -870.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 141.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (970 K) [4]		$S_{970}^0 = 384.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₄Th (l) ThBr ₄ (l)	Thorium(IV) Bromide	Br₄Th (l) ThBr ₄ (l)
$\Delta H_{970}^0 = -807.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 171.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (970 K) [4]		$S_{970}^0 = 449.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₄Th (g) ThBr ₄ (g)	Thorium(IV) Bromide	Br₄Th (g) ThBr ₄ (g)
$\Delta H_{298}^0 = -760.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 108 + 0.06 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 429.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Br₄Ti (s) TiBr ₄ (s)	Titanium(IV) Bromide	Br₄Ti (s) TiBr ₄ (s)
mp = 311 K (38 °C) $\Delta H_{298}^0 = -619.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 80.93 + 169.62 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 311 K) [4]		bp = 503 K (230 °C) $S_{298}^0 = 243.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₄Ti (s) TiBr ₄ (s)	Titanium(IV) Bromide	Br₄Ti (s) TiBr ₄ (s)
$\Delta H_{311}^0 = -617.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{311}^0 = 249.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₄Ti (l) TiBr ₄ (l)	Titanium(IV) Bromide	Br₄Ti (l) TiBr ₄ (l)
$\Delta H_{311}^0 = -605.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 151.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (311 K) [4] $\lg(p, K) = -3.61 \cdot 10^3 \cdot T^{-1} - 5.84 \cdot \lg(T) + 22.96$ (311 ... 503 K) [4] {Reaction: evaporation as TiBr ₄ (g)}		$S_{311}^0 = 290.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Br₄Ti (g)	Titanium(IV) Bromide	Br₄Ti (g)
TiBr ₄ (g)		TiBr ₄ (g)

$$\Delta H_{298}^0 = -550.2 \pm 5 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 398.6 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 107.76 + 0.17 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₄U (s)	Uranium(IV) Bromide	Br₄U (s)
UBr ₄ (s)		UBr ₄ (s)

$$\text{mp} = 792 \text{ K (519 } ^\circ\text{C)} \qquad \text{bp} = 1070 \text{ K (797 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -802.5 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 238.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 134.73 + 20.5 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 792 \text{ K}) [4]$$

$$\lg(p, K) = -11.09 \cdot 10^3 \cdot T^{-1} - 4.74 \cdot \lg(T) + 25.66 (600 \dots 792 \text{ K}) [4]$$

{Reaction: evaporation as UBr₄(g)}

Br₄U (s)	Uranium(IV) Bromide	Br₄U (s)
UBr ₄ (s)		UBr ₄ (s)

$$\Delta H_{792}^0 = -732.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{792}^0 = 374.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Br₄U (l)	Uranium(IV) Bromide	Br₄U (l)
UBr ₄ (l)		UBr ₄ (l)

$$\Delta H_{792}^0 = -680.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{792}^0 = 441.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (792 \text{ K}) [4]$$

$$\lg(p, K) = -9 \cdot 10^3 \cdot T^{-1} - 6.68 \cdot \lg(T) + 28.65 (792 \dots 1070 \text{ K}) [4]$$

{Reaction: evaporation as UBr₄(g)}

Br₄U (g)	Uranium(IV) Bromide	Br₄U (g)
UBr ₄ (g)		UBr ₄ (g)

$$\Delta H_{298}^0 = -604.3 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 460 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 107.99 - 0.03 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} + 0.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₄V (g)	Vanadium(IV) Bromide	Br₄V (g)
VBr ₄ (g)		VBr ₄ (g)

mp = 300 K (27 °C)

bp = 520 K (247 °C)

 $\Delta H_{298}^0 = -393.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 334.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 107.74 + 0.84 \cdot 10^{-3} \cdot T - 0.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Br₄Zr (s)	Zirconium (IV) Bromide	Br₄Zr (s)
ZrBr ₄ (s)		ZrBr ₄ (s)

bp = 628 K (355 °C)

 $\Delta H_{298}^0 = -760.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 224.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 129.63 + 9.39 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 628 K) [4] $\lg(p, \text{K}) = -6.46 \cdot 10^3 \cdot T^{-1} - 3.03 \cdot \lg(T) + 18.76$ (400 ... 628 K) [4]{Reaction: evaporation as ZrBr₄(g)}

Br₄Zr (g)	Zirconium(IV) Bromide	Br₄Zr (g)
ZrBr ₄ (g)		ZrBr ₄ (g)

 $\Delta H_{298}^0 = -644.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 414.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 107.83 + 0.16 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Br₅H₈LaN₂ (s)	Ammonium Lanthanum Bromide	Br₅H₈LaN₂ (s)
(NH ₄) ₂ LaBr ₅ (s)		(NH ₄) ₂ LaBr ₅ (s)

 $\Delta H_{298}^0 = -1471.1 \pm 15.9 \text{ kJ}\cdot\text{mol}^{-1}$ [19] $S_{298}^0 = 423 \pm 7.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [19]

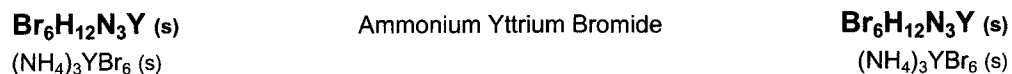
Br₅H₈N₂Nd (s)	Ammonium Neodymium Bromide	Br₅H₈N₂Nd (s)
(NH ₄) ₂ NdBr ₅ (s)		(NH ₄) ₂ NdBr ₅ (s)

 $\Delta H_{298}^0 = -1435.1 \pm 18.4 \text{ kJ}\cdot\text{mol}^{-1}$ [30] $S_{298}^0 = 459.8 \pm 28.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [30]

Br₅Nb (s) NbBr ₅ (s)	Niobium(V) Bromide	Br₅Nb (s) NbBr ₅ (s)
mp = 527 K (254 °C)		bp = 634 K (361 °C)
$\Delta H_{298}^0 = -556.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 258.8 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 147.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(\rho, K) = -6.18 \cdot 10^3 \cdot T^{-1} - 2.37 \cdot \lg(T) + 16.84$ (400 ... 527 K) [4]		
{Reaction: evaporation as NbBr ₅ (g)}		
Br₅Nb (s) NbBr ₅ (s)	Niobium(V) Bromide	Br₅Nb (s) NbBr ₅ (s)
$\Delta H_{527}^0 = -522.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{527}^0 = 343 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₅Nb (l) NbBr ₅ (l)	Niobium(V) Bromide	Br₅Nb (l) NbBr ₅ (l)
$\Delta H_{527}^0 = -498.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{527}^0 = 388.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 273.01 - 111.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (527 ... 634 K) [4]		
Br₅Nb (l) NbBr ₅ (l)	Niobium(V) Bromide	Br₅Nb (l) NbBr ₅ (l)
$\Delta H_{298}^0 = -545.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 274 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Br₅Nb (g) NbBr ₅ (g)	Niobium(V) Bromide	Br₅Nb (g) NbBr ₅ (g)
$\Delta H_{298}^0 = -443.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 449.3 \pm 3.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 132.67 + 0.23 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₅Re (g) ReBr ₅ (g)	Rhenium(V) Bromide	Br₅Re (g) ReBr ₅ (g)
$\Delta H_{298}^0 = -259.4 \pm 23.4 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 464.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

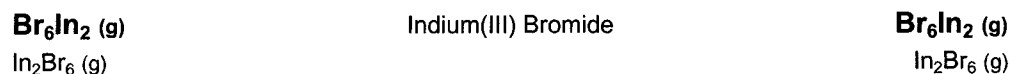
Br₅Ta (s) TaBr ₅ (s)	Tantalum(V) Bromide	Br₅Ta (s) TaBr ₅ (s)
mp = 538 K (265 °C)		bp = 617 K (344 °C)
$\Delta H_{298}^0 = -605.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 239.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 119.16 + 122.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 538 K) [4]		
$\lg(p,K) = -7.05 \cdot 10^3 \cdot T^{-1} - 5 \cdot \lg(T) + 25.95$ (400 ... 538 K) [4]		
{Reaction: evaporation as TaBr ₅ (g)}		
Br₅Ta (s) TaBr ₅ (s)	Tantalum(V) Bromide	Br₅Ta (s) TaBr ₅ (s)
$\Delta H_{538}^0 = -564.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{538}^0 = 339.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₅Ta (l) TaBr ₅ (l)	Tantalum(V) Bromide	Br₅Ta (l) TaBr ₅ (l)
$\Delta H_{538}^0 = -519.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{538}^0 = 424.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (538 K) [4]		
Br₅Ta (g) TaBr ₅ (g)	Tantalum(V) Bromide	Br₅Ta (g) TaBr ₅ (g)
$\Delta H_{298}^0 = -483.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 456.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 133.05 - 0.15 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₅U (s) UBr ₅ (s)	Uranium(V) Bromide	Br₅U (s) UBr ₅ (s)
$\Delta H_{298}^0 = -810.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 292.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 160.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Br₅W (s) WBr ₅ (s)	Tungsten(V) Bromide	Br₅W (s) WBr ₅ (s)
mp = 559 K (286 °C)		bp = 666 K (393 °C)
$\Delta H_{298}^0 = -292 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 307.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 125.49 + 100.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 559 K) [4]		
$\lg(p, K) = -5.49 \cdot 10^3 \cdot T^{-1} - 4.75 \cdot \lg(T) + 21.93$ (298 ... 559 K) [4]		
{Reaction: evaporation as WBr ₅ (g)}		
Br₅W (s) WBr ₅ (s)	Tungsten(V) Bromide	Br₅W (s) WBr ₅ (s)
$\Delta H_{559}^0 = -248.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{559}^0 = 413 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Br₅W (l) WBr ₅ (l)	Tungsten(V) Bromide	Br₅W (l) WBr ₅ (l)
$\Delta H_{559}^0 = -230.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{559}^0 = 443.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (559 K) [4]		
Br₅W (g) WBr ₅ (g)	Tungsten(V) Bromide	Br₅W (g) WBr ₅ (g)
$\Delta H_{298}^0 = -199.2 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 461.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.75 + 1.18 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₆Ga₂ (g) (GaBr ₃) ₂ (g)	Gallium(III) Bromide	Br₆Ga₂ (g) (GaBr ₃) ₂ (g)
$\Delta H_{298}^0 = -686.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 535.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -4.99 \cdot 10^3 \cdot T^{-1} - 3.39 \cdot \lg(T) + 19.05$ (298 ... 396 K) [4]		
{Reaction: evaporation of GaBr ₃ (s)}		
Br₆H₁₂N₃Nd (s) (NH ₄) ₃ NdBr ₆ (s)	Ammonium Neodymium Bromide	Br₆H₁₂N₃Nd (s) (NH ₄) ₃ NdBr ₆ (s)
$\Delta H_{298}^0 = -1669.8 \pm 20.5 \text{ kJ}\cdot\text{mol}^{-1}$ [30]		$S_{298}^0 = 641.8 \pm 31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [30]



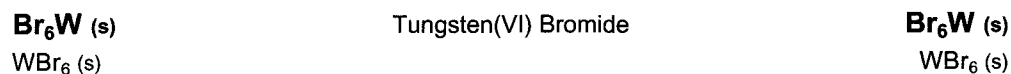
$$\Delta H_{298}^0 = -1682 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1} [21]$$

$$S_{298}^0 = 560.7 \pm 37.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [21]$$



$$\Delta H_{298}^0 = -695.5 \text{ kJ}\cdot\text{mol}^{-1} [282]$$

$$S_{298}^0 = 581.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [282]$$



mp = 582 K (309 °C)

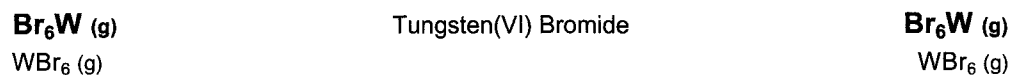
$$\Delta H_{298}^0 = -344.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 313.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 148.92 + 108.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 582 \text{ K}) [4]$$

$$\lg(p, K) = -5.93 \cdot 10^3 \cdot T^{-1} - 5.18 \cdot \lg(T) + 24.01 (298 \dots 582 \text{ K}) [4]$$

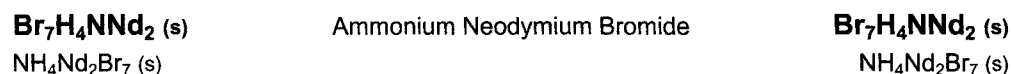
{Reaction: evaporation as WBr₆(g)}



$$\Delta H_{298}^0 = -244.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

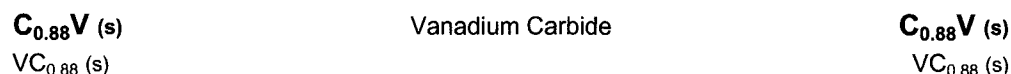
$$S_{298}^0 = 482.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 157.79 + 0.12 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -2025.1 \pm 21.3 \text{ kJ}\cdot\text{mol}^{-1} [30]$$

$$S_{298}^0 = 535.1 \pm 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [30]$$



mp = 3000 K (2727 °C)

$$\Delta H_{298}^0 = -101.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 25.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 36.36 + 13.31 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Br₆H₁₂N₃Y (s) (NH ₄) ₃ YBr ₆ (s)	Ammonium Yttrium Bromide	Br₆H₁₂N₃Y (s) (NH ₄) ₃ YBr ₆ (s)
$\Delta H_{298}^0 = -1682 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [21]		$S_{298}^0 = 560.7 \pm 37.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [21]
Br₆In₂ (g) In ₂ Br ₆ (g)	Indium(III) Bromide	Br₆In₂ (g) In ₂ Br ₆ (g)
$\Delta H_{298}^0 = -695.5 \text{ kJ}\cdot\text{mol}^{-1}$ [282]		$S_{298}^0 = 581.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [282]
Br₆W (s) WBr ₆ (s)	Tungsten(VI) Bromide	Br₆W (s) WBr ₆ (s)
mp = 582 K (309 °C)		
$\Delta H_{298}^0 = -344.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 313.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 148.92 + 108.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 582 K) [4]		
$\lg(p, K) = -5.93 \cdot 10^3 \cdot T^{-1} - 5.18 \cdot \lg(T) + 24.01$ (298 ... 582 K) [4]		
{Reaction: evaporation as WBr ₆ (g)}		
Br₆W (g) WBr ₆ (g)	Tungsten(VI) Bromide	Br₆W (g) WBr ₆ (g)
$\Delta H_{298}^0 = -244.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 482.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 157.79 + 0.12 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Br₇H₄NNd₂ (s) NH ₄ Nd ₂ Br ₇ (s)	Ammonium Neodymium Bromide	Br₇H₄NNd₂ (s) NH ₄ Nd ₂ Br ₇ (s)
$\Delta H_{298}^0 = -2025.1 \pm 21.3 \text{ kJ}\cdot\text{mol}^{-1}$ [30]		$S_{298}^0 = 535.1 \pm 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [30]
C_{0.88}V (s) VC _{0.88} (s)	Vanadium Carbide	C_{0.88}V (s) VC _{0.88} (s)
mp = 3000 K (2727 °C)		
$\Delta H_{298}^0 = -101.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 25.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.36 + 13.31 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

C (s) Carbon **C (s)**
Graphite

$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $\text{bp} = 4055 \text{ K (3782 }^\circ\text{C)}$
 $S_{298}^0 = 5.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
 $C_p^0 = 0.11 + 38.94 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} - 17.38 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]

C (s) Carbon **C (s)**
Diamond

$\Delta H_{298}^0 = 1.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 2.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
 $C_p^0 = 9.12 + 13.22 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]

C (g) Carbon **C (g)**

$\Delta H_{298}^0 = 716.7 \pm 0.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 158.1 \pm 0.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
 $C_p^0 = 20.08 + 0.54 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 4055 K) [4]
 $\lg(p, K) = -37.84 \cdot 10^3 \cdot T^{-1} - 0.45 \cdot \lg(T) + 9.88$ (2200 ... 4055 K) [4]
 {Reaction: evaporation of C(s, Graphite)}

CCaO₃ (s) Calcium Carbonate **CCaO₃ (s)**
CaCO₃ (s) Calcite CaCO₃ (s)

$\Delta H_{298}^0 = -1208.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 93.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
 $C_p^0 = 104.52 + 21.92 \cdot 10^{-3} \cdot T - 2.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1170 K) [4]
 $\lg(p, K) = -9.74 \cdot 10^3 \cdot T^{-1} - 1.72 \cdot \lg(T) + 13.6$ (600 ... 1170 K) [4]
 {Reaction: decomposition CaCO₃(s) = CaO(s) + CO₂(g)}

CCaO₃ (s) Calcium Carbonate **CCaO₃ (s)**
CaCO₃ (s) Aragonite CaCO₃ (s)

$\Delta H_{298}^0 = -1207.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
 $C_p^0 = 104.52 + 21.92 \cdot 10^{-3} \cdot T - 2.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1127 K) [4]
 $\lg(p, K) = -9.67 \cdot 10^3 \cdot T^{-1} - 1.69 \cdot \lg(T) + 13.73$ (600 ... 1127 K) [4]
 {Reaction: decomposition CaCO₃(s) = CaO(s) + CO₂(g)}

CCdO₃ (s) CdCO ₃ (s)	Cadmium Carbonate	CCdO₃ (s) CdCO ₃ (s)
$\Delta H_{298}^0 = -751.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.1 + 131.8 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 560 K) [4]		
$\lg(p, K) = -5.41 \cdot 10^3 \cdot T^{-1} - 1.36 \cdot \lg(T) + 13.4$ (298 ... 560 K) [4]		
{Reaction: decomposition CdCO ₃ (s) = CdO(s) + CO ₂ (g)}		
CCI (g)	Chloromethyldiyne	CCI (g)
$\Delta H_{298}^0 = 502.1 \pm 20 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 224.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CCIFH₂ (g) CH ₂ CIF (g)	Chlorofluoromethane	CCIFH₂ (g) CH ₂ CIF (g)
$\Delta H_{298}^0 = -261.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 264.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 47.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CCIFO (g) COClF (g)	Carbonic Chloride Fluoride	CCIFO (g) COClF (g)
$\Delta H_{298}^0 = -426.8 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 277 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CCIF₂H (g) CHClF ₂ (g)	Chlorodifluoromethane	CCIF₂H (g) CHClF ₂ (g)
$\Delta H_{298}^0 = -481.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 281 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CCIF₃ (g)	Chlorotrifluoromethane	CCIF₃ (g)
mp = 92 K (-181 °C)		bp = 192 K (-81 °C)
$\Delta H_{298}^0 = -707.9 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 285.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.46 + 20.08 \cdot 10^{-3} \cdot T - 2.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CClH (g) CHCl (g)	Chloromethylene	CClH (g) CHCl (g)
$\Delta H_{298}^0 = 334.7 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 234.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CClH₃ (g) CH ₃ Cl (g)	Chloromethane	CClH₃ (g) CH ₃ Cl (g)
$\Delta H_{298}^0 = -83.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 234.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CCIN (g) ClCN (g)	Cyanogen Chloride	CCIN (g) ClCN (g)
$\Delta H_{298}^0 = 138 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 236.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.71 + 6.86 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
CClO (g) COCl (g)	Carbonyl Chloride	CClO (g) COCl (g)
$\Delta H_{298}^0 = -62.8 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 266 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 45.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CCl₂ (g)	Dichloromethylene	CCl₂ (g)
$\Delta H_{298}^0 = 238.5 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 265.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.97 + 1.65 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CCl₂FH (g) CHCl ₂ F (g)	Dichlorofluoromethane	CCl₂FH (g) CHCl ₂ F (g)
$\Delta H_{298}^0 = -283.3 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 293.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CCl₂F₂ (g)	Dichlorodifluoromethane	CCl₂F₂ (g)
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mp = 115 K (-158 °C)

bp = 243 K (-30 °C)

 $\Delta H_{298}^0 = -491.6 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 300.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 89.29 + 15.49 \cdot 10^{-3} \cdot T - 1.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

CCl₂H₂ (g)	Dichloromethane	CCl₂H₂ (g)
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CH₂Cl₂ (g)CH₂Cl₂ (g) $\Delta H_{298}^0 = -95.5 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 270.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 50.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

CCl₂O (g)	Carbonic Dichloride	CCl₂O (g)
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COCl₂ (g)

Phosgene

COCl₂ (g)

mp = 155 K (-118 °C)

bp = 281 K (8 °C)

 $\Delta H_{298}^0 = -220.1 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 283.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 65.02 + 18.16 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} - 4.98 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

CCl₃ (g)	Carbon(III) Chloride	CCl₃ (g)
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 $\Delta H_{298}^0 = 79.5 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 296.8 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 80.2 + 1.52 \cdot 10^{-3} \cdot T - 1.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

CCl₃F (g)	Trichlorofluoromethane	CCl₃F (g)
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mp = 162 K (-111 °C)

bp = 297 K (24 °C)

 $\Delta H_{298}^0 = -288.7 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 309.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 94.78 + 11.12 \cdot 10^{-3} \cdot T + 1.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (350 ... 2000 K) [4]

CCl₃H (g)	Trichloromethane	CCl₃H (g)
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CHCl₃ (g)CHCl₃ (g) $\Delta H_{298}^0 = -103.2 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 295.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 65.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

CCl₃H₃Si (g) SiCH ₃ Cl ₃ (g)	Trichloromethylsilane	CCl₃H₃Si (g) SiCH ₃ Cl ₃ (g)
$\Delta H_{298}^0 = -528.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 102.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 351.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CCl₄ (l)	Carbon(IV) Chloride	CCl₄ (l)
mp = 250 K (-23 °C) $\Delta H_{298}^0 = -135.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p,K) = -2.41 \cdot 10^3 \cdot T^{-1} - 5.56 \cdot \lg(T) + 21.05$ (298 ... 349 K) [4] {Reaction: evaporation}		bp = 349 K (76 °C) $S_{298}^0 = 216.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CCl₄ (l)	Carbon(IV) Chloride	CCl₄ (l)
$\Delta H_{349}^0 = -128.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{349}^0 = 237.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CCl₄ (g)	Carbon(IV) Chloride	CCl₄ (g)
$\Delta H_{349}^0 = -98.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 104.18 + 2.01 \cdot 10^{-3} \cdot T - 1.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{349}^0 = 323.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CCl₄ (g)	Carbon(IV) Chloride	CCl₄ (g)
$\Delta H_{298}^0 = -103 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 104.18 + 2.01 \cdot 10^{-3} \cdot T - 1.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 309.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CCoO₃ (s) CoCO ₃ (s)	Cobalt Carbonate	CCoO₃ (s) CoCO ₃ (s)
$\Delta H_{298}^0 = -713 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 88.28 + 38.91 \cdot 10^{-3} \cdot T - 1.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 455 K) [4] $\lg(p,K) = -4.17 \cdot 10^3 \cdot T^{-1} + 0.79 \cdot \lg(T) + 7.06$ (298 ... 455 K) [4] {Reaction: decomposition CoCO ₃ (s) = CoO(s) + CO ₂ (g)}		$S_{298}^0 = 87.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

CCs₂O₃ (s)	Cesium Carbonate	CCs₂O₃ (s)
CS ₂ CO ₃ (s)		CS ₂ CO ₃ (s)

mp = 1066 K (793 °C)

$$\Delta H_{298}^0 = -1136.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 204 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 115.44 + 69.33 \cdot 10^{-3} \cdot T - 1.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1066 \text{ K}) [4]$$

CCuN (s)	Copper Cyanide	CCuN (s)
CuCN (s)		CuCN (s)

mp = 746 K (473 °C)

$$\Delta H_{298}^0 = 95 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 90 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 59.66 + 24.48 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 746 \text{ K}) [4]$$

CF (g)	Carbon(I) Fluoride	CF (g)
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$$\Delta H_{298}^0 = 255.2 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 30.66 + 6.53 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} - 1.49 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CFH (g)	Fluoromethylene	CFH (g)
CHF (g)		CHF (g)

$$\Delta H_{298}^0 = 125.5 \pm 29 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 223.4 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CFHO (g)	Formyl Fluoride	CFHO (g)
HCOF (g)		HCOF (g)

$$\Delta H_{298}^0 = -376.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 246.5 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 40.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CFH₃ (g)	Fluoromethane	CFH₃ (g)
CH ₃ F (g)		CH ₃ F (g)

$$\Delta H_{298}^0 = -234.3 \pm 29 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 222.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CFN (g) FCN (g)	Cyanogen Fluoride	CFN (g) FCN (g)
$\Delta H_{298}^0 = 36 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.56 + 13.22 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [6]		
CFO (g) COF (g)	Carbonyl Fluoride	CFO (g) COF (g)
$\Delta H_{298}^0 = -171.5 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 248.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 47.94 + 5.01 \cdot 10^{-3} \cdot T - 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CF₂ (g)	Carbon(II) Fluoride	CF₂ (g)
$\Delta H_{298}^0 = -182 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.01 + 16.32 \cdot 10^{-3} \cdot T - 0.79 \cdot 10^6 \cdot T^{-2} - 4.67 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CF₂H₂ (g) CH ₂ F ₂ (g)	Difluoromethane	CF₂H₂ (g) CH ₂ F ₂ (g)
$\Delta H_{298}^0 = -450.7 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 246.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 42.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CF₂O (g) COF ₂ (g)	Carbonyl Difluoride	CF₂O (g) COF ₂ (g)
mp = 159 K (-114 °C)		bp = 190 K (-83 °C)
$\Delta H_{298}^0 = -623.8 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [225]		$S_{298}^0 = 258.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 67.86 + 7.54 \cdot 10^{-3} \cdot T - 2.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CF₃ (g)	Carbon(III) Fluoride	CF₃ (g)
$\Delta H_{298}^0 = -470.3 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 265.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.16 + 26.33 \cdot 10^{-3} \cdot T - 1.33 \cdot 10^6 \cdot T^{-2} - 7.45 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CF₃H (g) CHF ₃ (g)	Trifluoromethane	CF₃H (g) CHF ₃ (g)
$\Delta H_{298}^0 = -697.1 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 51.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 259.7 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CF₃H₃Si (g) SiCH ₃ F ₃ (g)	Trifluoromethylsilane	CF₃H₃Si (g) SiCH ₃ F ₃ (g)
$\Delta H_{298}^0 = -1232.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 90.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 314.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CF₃I (g) CIF ₃ (g)	Trifluoroiodomethane	CF₃I (g) CIF ₃ (g)
$\Delta H_{298}^0 = -589.1 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 70.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 307.6 \pm 0.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CF₄ (g)	Tetrafluoromethane	CF₄ (g)
mp = 90 K (-183 °C) $\Delta H_{298}^0 = -933.2 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 74.65 + 36.28 \cdot 10^{-3} \cdot T - 2.22 \cdot 10^6 \cdot T^{-2} - 10.53 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		bp = 145 K (-128 °C) $S_{298}^0 = 261.4 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CF₄O (g) CF ₃ OF (g)	Trifluoromethyl Hypofluorite	CF₄O (g) CF ₃ OF (g)
$\Delta H_{298}^0 = -764.8 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 79.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 322.5 \pm 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CF₈S (g) CF ₃ SF ₅ (g)	Pentafluoro(Trifluoromethyl) Sulfur	CF₈S (g) CF ₃ SF ₅ (g)
$\Delta H_{298}^0 = -1717.1 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 139.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 380 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CFeO₃ (s) FeCO ₃ (s)	Iron Carbonate	CFeO₃ (s) FeCO ₃ (s)
$\Delta H_{298}^0 = -740.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 92.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.66 + 112.09 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 458 K) [4]		
$\lg(p,K) = -4.33 \cdot 10^3 \cdot T^{-1} - 0.04 \cdot \lg(T) + 9.56$ (298 ... 458 K) [4]		
{Reaction: decomposition FeCO ₃ (s) = FeO(s) + CO ₂ (g)}		
CFe₃ (s) Fe ₃ C (s)	Iron Carbide alpha	CFe₃ (s) Fe ₃ C (s)
$\Delta H_{298}^0 = 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 84.84 + 79.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		
CFe₃ (s) Fe ₃ C (s)	Iron Carbide alpha	CFe₃ (s) Fe ₃ C (s)
$\Delta H_{485}^0 = 46.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{485}^0 = 159.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 121.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 K) [2]		
CFe₃ (s) Fe ₃ C (s)	Iron Carbide beta	CFe₃ (s) Fe ₃ C (s)
$\Delta H_{485}^0 = 53.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{485}^0 = 174.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 113.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 K) [2]		
CH (g)	Methylidyne	CH (g)
$\Delta H_{298}^0 = 594.1 \pm 17.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 183 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CHKO₃ (s) KHCO ₃ (s)	Potassium Hydrogen Carbonate	CHKO₃ (s) KHCO ₃ (s)
$\Delta H_{298}^0 = -964.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 115.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 47.7 + 143.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 423 K) [4]		

CHN (g) HCN (g)	Hydrogen Cyanide	CHN (g) HCN (g)
mp = 250 K (-23 °C)		bp = 300 K (27 °C)
$\Delta H_{298}^0 = 135.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 201.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.49 + 9.09 \cdot 10^{-3} \cdot T - 0.82 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CHNO (g) HNCO (g)	Hydrogen Isocyanate	CHNO (g) HNCO (g)
$\Delta H_{298}^0 = -101.7 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 238.2 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 45.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CHNaO₂ (s) NaCHO ₂ (s)	Sodium Formiate	CHNaO₂ (s) NaCHO ₂ (s)
$\Delta H_{298}^0 = -666 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 104 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
CHNaO₃ (s) NaHCO ₃ (s)	Sodium Hydrogen Carbonate	CHNaO₃ (s) NaHCO ₃ (s)
$\Delta H_{298}^0 = -936.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 101.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.31 + 143.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 543 K) [4]		
CHO (g) HCO (g)	Formyl	CHO (g) HCO (g)
$\Delta H_{298}^0 = 43.5 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 224.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CHP (g) HCP (g)	Methinophosphide	CHP (g) HCP (g)
$\Delta H_{298}^0 = 149.9 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 215.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CH₂ (g)	Methylene	CH₂ (g)
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$$\Delta H_{298}^0 = 386.4 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 193.9 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CH₂O (g)	Formaldehyde	CH₂O (g)
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$$\text{mp} = 181 \text{ K} (-92 \text{ }^\circ\text{C})$$

$$\text{bp} = 254 \text{ K} (-19 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -115.9 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 219 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 21.08 + 53.87 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} - 13.41 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CH₂O₂ (l) HCOOH (l)	Formic Acid	CH₂O₂ (l) HCOOH (l)
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$$\text{mp} = 281 \text{ K} (8 \text{ }^\circ\text{C})$$

$$\text{bp} = 373 \text{ K} (100 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -424.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 99.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$\lg(p, K) = -2.66 \cdot 10^3 \cdot T^{-1} - 5.37 \cdot \lg(T) + 20.94 (298 \dots 373 \text{ K}) [4]$$

{Reaction: evaporation}

CH₂O₂ (l) HCOOH (l)	Formic Acid	CH₂O₂ (l) HCOOH (l)
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$$\Delta H_{373}^0 = -417.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{373}^0 = 151.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CH₂O₂ (g) HCOOH (g)	Formic Acid	CH₂O₂ (g) HCOOH (g)
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$$\Delta H_{373}^0 = -383 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{373}^0 = 243 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.24 + 69 \cdot 10^{-3} \cdot T - 0.67 \cdot 10^6 \cdot T^{-2} - 20.56 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (373 \dots 1500 \text{ K}) [4]$$

CH₂O₂ (g) HCOOH (g)	Formic Acid	CH₂O₂ (g) HCOOH (g)
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$$\Delta H_{298}^0 = -378.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 248.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 45.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CH₃ (g)	Methyl	CH₃ (g)
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$$\Delta H_{298}^0 = 145.7 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 194.2 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 38.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CH₄ (g)	Methane	CH₄ (g)
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$$\text{mp} = 89 \text{ K } (-184 \text{ }^\circ\text{C})$$

$$\text{bp} = 109 \text{ K } (-164 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -74.9 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 186.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 11.93 + 77.65 \cdot 10^{-3} \cdot T + 0.14 \cdot 10^6 \cdot T^{-2} - 18.41 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CH₄O (l)	Methanol	CH₄O (l)
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CH₃OH (l)

CH₃OH (l)

$$\text{mp} = 179 \text{ K } (-94 \text{ }^\circ\text{C})$$

$$\text{bp} = 338 \text{ K } (65 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -239.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 126.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$\lg(p, K) = -2.6 \cdot 10^3 \cdot T^{-1} - 4.65 \cdot \lg(T) + 19.45 (298 \dots 338 \text{ K}) [4]$$

{Reaction: evaporation}

CH₄O (l)	Methanol	CH₄O (l)
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CH₃OH (l)

CH₃OH (l)

$$\Delta H_{338}^0 = -236.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{338}^0 = 136.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CH₄O (g)	Methanol	CH₄O (g)
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CH₃OH (g)

CH₃OH (g)

$$\Delta H_{338}^0 = -199.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{338}^0 = 245.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 4.31 + 128.73 \cdot 10^{-3} \cdot T + 0.45 \cdot 10^6 \cdot T^{-2} - 44.1 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (338 \dots 800 \text{ K}) [4]$$

CH₄O (g)	Methanol	CH₄O (g)
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CH₃OH (g)

CH₃OH (g)

$$\Delta H_{298}^0 = -201.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 239.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 43.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CH₆N₂O₂ (s) NH ₂ CO ₂ NH ₄ (s)	Ammonium Carbamate	CH₆N₂O₂ (s) NH ₂ CO ₂ NH ₄ (s)
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$$\Delta H_{298}^0 = -645 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

CHF (s) HfC (s)	Hafnium Carbide	CHF (s) HfC (s)
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$$\text{mp} = 4103 \text{ K (3830 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -226 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 39.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 42.33 + 12.13 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CIN (g) CNI (g)	Cyanogen Iodide	CIN (g) CNI (g)
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$$\Delta H_{298}^0 = 225.9 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 257.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 51.46 + 5.77 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [6]$$

CI₄ (g)	Carbon(IV) Iodide	CI₄ (g)
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$$\text{mp} = 444 \text{ K (171 } ^\circ\text{C)}$$

$$\text{bp} = 580 \text{ K (307 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = 262.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 266.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 106.07 + 1.39 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

CKN (s) KCN (s)	Potassium Cyanide	CKN (s) KCN (s)
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$$\text{mp} = 895 \text{ K (622 } ^\circ\text{C)}$$

$$\text{bp} = 1896 \text{ K (1623 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -113.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 127.8 \pm 1.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 66.28 + 0.42 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 895 \text{ K}) [4]$$

$$\lg(p, K) = -10.32 \cdot 10^3 \cdot T^{-1} - 1.24 \cdot \lg(T) + 10.04 (700 \dots 895 \text{ K}) [4]$$

{Reaction: evaporation as KCN(g)}

CKN (s) KCN (s)	Potassium Cyanide	CKN (s) KCN (s)
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$$\Delta H_{895}^0 = -73.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{895}^0 = 200.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CKN (l) KCN (l)	Potassium Cyanide	CKN (l) KCN (l)
$\Delta H_{895}^0 = -59.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{895}^0 = 217.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 75.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (895 K) [4]		
$\lg(p,K) = -9.82 \cdot 10^3 \cdot T^{-1} - 1.97 \cdot \lg(T) + 11.64$ (895 ... 1896 K) [4]		
{Reaction: evaporation as KCN(g)}		
CKN (l) KCN (l)	Potassium Cyanide	CKN (l) KCN (l)
$\Delta H_{1896}^0 = 16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1896}^0 = 273.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CKN (g) KCN (g)	Potassium Cyanide	CKN (g) KCN (g)
$\Delta H_{1896}^0 = 176.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1896}^0 = 356.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 53.91 + 3.8 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1896 ... 2000 K) [4]		
CKN (l) KCN (l)	Potassium Cyanide	CKN (l) KCN (l)
$\Delta H_{298}^0 = -104.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 134.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 75.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CKN (g) KCN (g)	Potassium Cyanide	CKN (g) KCN (g)
$\Delta H_{298}^0 = 81.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 253.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.91 + 3.8 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CKNS (s) KSCN (s)	Potassium Thiocyanate	CKNS (s) KSCN (s)
mp = 446 K (173 °C)		
$\Delta H_{298}^0 = -200 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 124 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		

CK₂O₃ (s) K ₂ CO ₃ (s)	Potassium Carbonate	CK₂O₃ (s) K ₂ CO ₃ (s)
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mp = 1173 K (900 °C)

 $\Delta H_{298}^0 = -1151 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 155.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 97.95 + 92.09 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1173 K) [4]

CK₂O₃ (s) K ₂ CO ₃ (s)	Potassium Carbonate	CK₂O₃ (s) K ₂ CO ₃ (s)
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 $\Delta H_{1173}^0 = -1008.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1173}^0 = 365.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CK₂O₃ (l) K ₂ CO ₃ (l)	Potassium Carbonate	CK₂O₃ (l) K ₂ CO ₃ (l)
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 $\Delta H_{1173}^0 = -980.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1173}^0 = 388.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1173 K) [4] $\lg(p, K) = -21.96 \cdot 10^3 \cdot T^{-1} - 3.37 \cdot \lg(T) + 19.38$ (1300 ... 2000 K) [4]{Reaction: decomposition K₂CO₃(s) = K₂O(s) + CO₂(g)}

CK₂O₃ (l) K ₂ CO ₃ (l)	Potassium Carbonate	CK₂O₃ (l) K ₂ CO ₃ (l)
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 $\Delta H_{298}^0 = -1130.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 170.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1173 K) [4]

CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate alpha	CLi₂O₃ (s) Li ₂ CO ₃ (s)
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mp = 993 K (720 °C)

 $\Delta H_{298}^0 = -1215.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 90.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 56.82 + 138.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 623 K) [4]

CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate alpha	CLi₂O₃ (s) Li ₂ CO ₃ (s)
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 $\Delta H_{623}^0 = -1176.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{623}^0 = 176.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate beta	CLi₂O₃ (s) Li ₂ CO ₃ (s)
$\Delta H_{623}^0 = -1175.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 132.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (623 K) [4]		$S_{623}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate beta	CLi₂O₃ (s) Li ₂ CO ₃ (s)
$\Delta H_{683}^0 = -1167.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{683}^0 = 190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate gamma	CLi₂O₃ (s) Li ₂ CO ₃ (s)
$\Delta H_{683}^0 = -1165.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 14.35 + 180.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (683 ... 993 K) [4] $\lg(p,K) = -12.62 \cdot 10^3 \cdot T^{-1} - 3.87 \cdot \lg(T) + 20.65$ (683 ... 993 K) [4] {Reaction: decomposition Li ₂ CO ₃ (s) = Li ₂ O(s) + CO ₂ (g)}		$S_{683}^0 = 193.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CLi₂O₃ (s) Li ₂ CO ₃ (s)	Lithium Carbonate gamma	CLi₂O₃ (s) Li ₂ CO ₃ (s)
$\Delta H_{993}^0 = -1113.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{993}^0 = 255 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CLi₂O₃ (l) Li ₂ CO ₃ (l)	Lithium Carbonate	CLi₂O₃ (l) Li ₂ CO ₃ (l)
$\Delta H_{993}^0 = -1069.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 185.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (993 K) [4]		$S_{993}^0 = 300.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CLi₂O₃ (l) Li ₂ CO ₃ (l)	Lithium Carbonate	CLi₂O₃ (l) Li ₂ CO ₃ (l)
$\Delta H_{298}^0 = -1175.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 96.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 130.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CMgO₃ (s) MgCO ₃ (s)	Magnesium Carbonate	CMgO₃ (s) MgCO ₃ (s)
$\Delta H_{298}^0 = -1095.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 65.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 77.91 + 57.74 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 812 K) [4]		
$\lg(p,K) = -5.66 \cdot 10^3 \cdot T^{-1} - 1.18 \cdot \lg(T) + 12.81$ (300 ... 593 K) [4]		
{Reaction: decomposition MgCO ₃ (s) = MgO(s) + CO ₂ (g)}		
CMnO₃ (s) MnCO ₃ (s)	Manganese Carbonate	CMnO₃ (s) MnCO ₃ (s)
$\Delta H_{298}^0 = -881.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 105.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.83 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 656 K) [4]		
$\lg(p,K) = -5.67 \cdot 10^3 \cdot T^{-1} - 1.2 \cdot \lg(T) + 12.02$ (400 ... 656 K) [4]		
{Reaction: decomposition MnCO ₃ (s) = MnO(s) + CO ₂ (g)}		
CMn₃ (s) Mn ₃ C (s)	Manganese Carbide alpha	CMn₃ (s) Mn ₃ C (s)
mp = 1793 K (1520 °C)		
$\Delta H_{298}^0 = -15.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 105.69 + 23.43 \cdot 10^{-3} \cdot T - 1.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1310 K) [4]		
CMn₃ (s) Mn ₃ C (s)	Manganese Carbide alpha	CMn₃ (s) Mn ₃ C (s)
$\Delta H_{1310}^0 = 106.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1310}^0 = 269.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CMn₃ (s) Mn ₃ C (s)	Manganese Carbide beta	CMn₃ (s) Mn ₃ C (s)
$\Delta H_{1310}^0 = 121.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1310}^0 = 281.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 158.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1310 K) [4]		

CMo (s) MoC (s)	Molybdenum Carbide	CMo (s) MoC (s)
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$\Delta H_{298}^0 = -28.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 36.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.13 + 23.61 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} - 5.82 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1437 K) [4]	

CMo₂ (s) Mo ₂ C (s)	Molybdenum Carbide alpha	CMo₂ (s) Mo ₂ C (s)
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mp = 2795 K (2522 °C)	
$\Delta H_{298}^0 = -49.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 65.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 64.35 + 23.61 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} - 4.49 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]	

CMo₂ (s) Mo ₂ C (s)	Molybdenum Carbide alpha	CMo₂ (s) Mo ₂ C (s)
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$\Delta H_{1500}^0 = 45.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1500}^0 = 188.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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CMo₂ (s) Mo ₂ C (s)	Molybdenum Carbide beta	CMo₂ (s) Mo ₂ C (s)
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$\Delta H_{1500}^0 = 67.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1500}^0 = 202.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.48 + 8.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1500 ... 2000 K) [4]	

CN (g)	Cyanogen	CN (g)
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$\Delta H_{298}^0 = 435.1 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 202.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.1 + 4.4 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CNNa (s) NaCN (s)	Sodium Cyanide	CNNa (s) NaCN (s)
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mp = 835 K (562 °C)		bp = 1779 K (1506 °C)
$\Delta H_{298}^0 = -90.7 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 115.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]	
$C_p^0 = 68.58 + 0.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 835 K) [4]		

CNNa (s) NaCN (s)	Sodium Cyanide	CNNa (s) NaCN (s)
$\Delta H_{835}^0 = -53.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{835}^0 = 186.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CNNa (l) NaCN (l)	Sodium Cyanide	CNNa (l) NaCN (l)
$\Delta H_{835}^0 = -44.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (835 K) [4]		$S_{835}^0 = 197.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CNNa (l) NaCN (l)	Sodium Cyanide	CNNa (l) NaCN (l)
$\Delta H_{298}^0 = -84.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 68.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CNNa (g) NaCN (g)	Sodium Cyanide	CNNa (g) NaCN (g)
$\Delta H_{298}^0 = 99.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 54 + 3.75 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -9.95 \cdot 10^3 \cdot T^{-1} - 2.53 \cdot \lg(T) + 13.76$ (835 ... 1779 K) [4] {Reaction: evaporation of NaCN(l)}		$S_{298}^0 = 243.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CNNaO (s) NaCNO (s)	Sodium Cyanate	CNNaO (s) NaCNO (s)
$\Delta H_{298}^0 = -405 \text{ kJ}\cdot\text{mol}^{-1}$ [7] $C_p^0 = 87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		$S_{298}^0 = 97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
CNO (g) NCO (g)	NCO-Radical	CNO (g) NCO (g)
$\Delta H_{298}^0 = 159.4 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 40.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 232.2 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CN₂ (g) CNN (g)	CNN-Radical	CN₂ (g) CNN (g)
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$$\Delta H_{298}^0 = 585 \pm 126 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 42.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 231.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

CN₂ (g) NCN (g)	NCN-Radical	CN₂ (g) NCN (g)
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$$\Delta H_{298}^0 = 472.8 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 42.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 226.2 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

CNa₂O₃ (s) Na ₂ CO ₃ (s)	Sodium Carbonate alpha	CNa₂O₃ (s) Na ₂ CO ₃ (s)
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$$\text{mp} = 1123 \text{ K} (850 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1130.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 11 + 244.05 \cdot 10^{-3} \cdot T + 2.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 723 \text{ K}) [4]$$

$$S_{298}^0 = 138.8 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

CNa₂O₃ (s) Na ₂ CO ₃ (s)	Sodium Carbonate alpha	CNa₂O₃ (s) Na ₂ CO ₃ (s)
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$$\Delta H_{723}^0 = -1068.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{723}^0 = 263.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CNa₂O₃ (s) Na ₂ CO ₃ (s)	Sodium Carbonate beta	CNa₂O₃ (s) Na ₂ CO ₃ (s)
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$$\Delta H_{723}^0 = -1067.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 50.08 + 129.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (723 \dots 1123 \text{ K}) [4]$$

$$S_{723}^0 = 264.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CNa₂O₃ (s) Na ₂ CO ₃ (s)	Sodium Carbonate beta	CNa₂O₃ (s) Na ₂ CO ₃ (s)
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$$\Delta H_{1123}^0 = -999.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1123}^0 = 338.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CNa₂O₃ (l) Na ₂ CO ₃ (l)	Sodium Carbonate	CNa₂O₃ (l) Na ₂ CO ₃ (l)
$\Delta H_{1123}^0 = -970.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 189.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1123 K) [4]		$S_{1123}^0 = 364.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CNa₂O₃ (l) Na ₂ CO ₃ (l)	Sodium Carbonate	CNa₂O₃ (l) Na ₂ CO ₃ (l)
$\Delta H_{298}^0 = -1108.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 111 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 156.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CNb (s) NbC (s)	Niobium Carbide	CNb (s) NbC (s)
mp = 3881 K (3608 °C) $\Delta H_{298}^0 = -138.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 45.15 + 7.22 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 35.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CNb₂ (s) Nb ₂ C (s)	Niobium Carbide	CNb₂ (s) Nb ₂ C (s)
$\Delta H_{298}^0 = -185.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 66.44 + 12.55 \cdot 10^{-3} \cdot T - 0.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CNiO₃ (s) NiCO ₃ (s)	Nickel Carbonate	CNiO₃ (s) NiCO ₃ (s)
$\Delta H_{298}^0 = -696.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 88.7 + 38.91 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 381 K) [4] $\lg(p, K) = -3.35 \cdot 10^3 \cdot T^{-1} - 0.47 \cdot \lg(T) + 10.01$ (298 ... 381 K) [4] {Reaction: decomposition NiCO ₃ (s) = NiO(s) + CO ₂ (g)}		$S_{298}^0 = 86.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CNi₃ (s) Ni ₃ C (s)	Nickel Carbide	CNi₃ (s) Ni ₃ C (s)
$\Delta H_{298}^0 = 67.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

CO (g)	Carbon(II) Oxide	CO (g)
mp = 68 K (-205 °C)		bp = 81 K (-192 °C)
$\Delta H_{298}^0 = -110.5 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 197.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.96 + 2.44 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
$\lg(p,K) = -4.43 \cdot 10^3 \cdot T^{-1} + 0.1 \cdot \lg(T) + 4.25$ (400 ... 3000 K) [4]		
{Reaction: Boudouard equilibrium $1/2\text{C(s)} + 1/2\text{CO}_2(\text{g}) = \text{CO(g)}$ }		
COS (g)	Carbon Oxide Sulfide	COS (g)
mp = 135 K (-138 °C)		bp = 223 K (-50 °C)
$\Delta H_{298}^0 = -138.4 \pm 1.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 231.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.08 + 5.49 \cdot 10^{-3} \cdot T - 1.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CO₂ (g)	Carbon(IV) Oxide	CO₂ (g)
mp = 216 K (-57 °C)		bp = 195 K (-78 °C)
$\Delta H_{298}^0 = -393.5 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 213.8 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 51.13 + 4.37 \cdot 10^{-3} \cdot T - 1.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
CO₃Pb (s)	Lead Carbonate	CO₃Pb (s)
PbCO ₃ (s)		PbCO ₃ (s)
$\Delta H_{298}^0 = -699.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 131 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.84 + 119.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 581 K) [4]		
$\lg(p,K) = -4.61 \cdot 10^3 \cdot T^{-1} - 1.41 \cdot \lg(T) + 11.82$ (298 ... 581 K) [4]		
{Reaction: decomposition $\text{PbCO}_3(\text{s}) = \text{PbO}(\text{s}) + \text{CO}_2(\text{g})$ }		
CO₃Rb₂ (s)	Rubidium Carbonate	CO₃Rb₂ (s)
Rb ₂ CO ₃ (s)		Rb ₂ CO ₃ (s)
mp = 1146 K (873 °C)		
$\Delta H_{298}^0 = -1133 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 181.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 105.86 + 80.75 \cdot 10^{-3} \cdot T - 1.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1146 K) [4]		

CO₃Sr (s)	Strontium Carbonate	CO₃Sr (s)
SrCO ₃ (s)	alpha	SrCO ₃ (s)

mp = 1173 K (900 °C)

$$\Delta H_{298}^0 = -1235.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 88.78 + 35.9 \cdot 10^{-3} \cdot T - 1.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1197 K) [4]}$$

$$\lg(p, K) = -13.45 \cdot 10^3 \cdot T^{-1} - 1.42 \cdot \lg(T) + 13.61 \text{ (800 ... 1197 K) [4]}$$

{Reaction: decomposition SrCO₃(s) = SrO(s) + CO₂(g)}

CO₃Sr (s)	Strontium Carbonate	CO₃Sr (s)
SrCO ₃ (s)	alpha	SrCO ₃ (s)

$$\Delta H_{1197}^0 = -1135.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1197}^0 = 244.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 130.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1197 K) [4]}$$

CO₃Sr (s)	Strontium Carbonate	CO₃Sr (s)
SrCO ₃ (s)	beta	SrCO ₃ (s)

$$\Delta H_{1157}^0 = -1115.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1197}^0 = 261 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 142.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1197 K) [4]}$$

$$\lg(p, K) = -13.37 \cdot 10^3 \cdot T^{-1} - 3.3 \cdot \lg(T) + 19.33 \text{ (1197 ... 1513 K) [4]}$$

{Reaction: decomposition SrCO₃(s) = SrO(s) + CO₂(g)}

CO₃Zn (s)	Zinc Carbonate	CO₃Zn (s)
ZnCO ₃ (s)		ZnCO ₃ (s)

$$\Delta H_{298}^0 = -817.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 82.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 38.91 + 138.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 422 K) [4]}$$

$$\lg(p, K) = -3.94 \cdot 10^3 \cdot T^{-1} - 0.62 \cdot \lg(T) + 10.96 \text{ (298 ... 422 K) [4]}$$

{Reaction: decomposition ZnCO₃(s) = ZnO(s) + CO₂(g)}

CO₄Pb₂ (s)	Lead Carbonate Oxide	CO₄Pb₂ (s)
PbO · PbCO ₃ (s)		PbO · PbCO ₃ (s)

$$\Delta H_{298}^0 = -921.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 193.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 104.22 + 128.32 \cdot 10^{-3} \cdot T - 0.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 588 K) [4]}$$

CO₅U (s) UO ₂ CO ₃ (s)	Uranyl Carbonate	CO₅U (s) UO ₂ CO ₃ (s)
$\Delta H_{298}^0 = -1691.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110.75 + 54.18 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 409 K) [4]		
CP (g)	Carbon Phosphide	CP (g)
$\Delta H_{298}^0 = 449.9 \pm 9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 216.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.3 + 4.27 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
CS (g)	Carbon(II) Sulfide	CS (g)
$\Delta H_{298}^0 = 280.3 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 210.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.38 + 8.65 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} - 2.39 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CS₂ (l)	Carbon(IV) Sulfide	CS₂ (l)
mp = 161 K (-112 °C)		bp = 319 K (46 °C)
$\Delta H_{298}^0 = 89.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -1.99 \cdot 10^3 \cdot T^{-1} - 4.07 \cdot \lg(T) + 16.42$ (298 ... 319 K) [4]		
{Reaction: evaporation}		
CS₂ (l)	Carbon(IV) Sulfide	CS₂ (l)
$\Delta H_{319}^0 = 90.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{319}^0 = 156.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CS₂ (g)	Carbon(IV) Sulfide	CS₂ (g)
$\Delta H_{319}^0 = 117.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{319}^0 = 241.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.58 + 13.68 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} - 3.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (319 ... 2000 K) [4]		
CS₂ (g)	Carbon(IV) Sulfide	CS₂ (g)
$\Delta H_{298}^0 = 116.9 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 238 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.09 + 6.69 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1800 K) [3]		

CSe (g)	Carbon(II) Selenide	CSe (g)
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$\Delta H_{298}^0 = 366.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 222.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 29.66 + 4.35 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		

CSe₂ (l)	Carbon(IV) Selenide	CSe₂ (l)
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$\Delta H_{298}^0 = 220.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 68.7 + 66.53 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (230 ... 328 K) [5]		

CSe₂ (g)	Carbon(IV) Selenide	CSe₂ (g)
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$\Delta H_{298}^0 = 258.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 263.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 56.99 + 2.93 \cdot 10^{-3} \cdot T - 6.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		

CSi (s) SiC (s)	Silicon Carbide alpha	CSi (s) SiC (s)
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$\Delta H_{298}^0 = -71.5 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 16.5 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CSi (s) SiC (s)	Silicon Carbide beta	CSi (s) SiC (s)
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$\Delta H_{298}^0 = -73.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 16.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CSi (g) SiC (g)	Silicon Carbide	CSi (g) SiC (g)
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$\Delta H_{298}^0 = 719.6 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.83 + 1.17 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2818 K) [4]		

CSi₂ (g) Si ₂ C (g)	Silicon Carbide	CSi₂ (g) Si ₂ C (g)
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$\Delta H_{298}^0 = 535.6 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 242.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.19 + 3.72 \cdot 10^{-3} \cdot T - 2.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2818 K) [4]		

CTa (s)	Tantalum Carbide	CTa (s)
TaC (s)		TaC (s)

mp = 4100 K (3827 °C)

$$\Delta H_{298}^0 = -144.1 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 42.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.3 + 8.16 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CTa (l)	Tantalum Carbide	CTa (l)
TaC (l)		TaC (l)

$$\Delta H_{298}^0 = -34 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 68.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CTa₂ (s)	Tantalum Carbide	CTa₂ (s)
Ta ₂ C (s)		Ta ₂ C (s)

mp = 3600 K (3327 °C)

$$\Delta H_{298}^0 = -208.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.44 + 13.93 \cdot 10^{-3} \cdot T - 0.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CTe (g)	Carbon(IV) Telluride	CTe (g)
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$$\Delta H_{298}^0 = [464.4] \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = [230.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

CTh (s)	Thorium Carbide	CTh (s)
ThC (s)		ThC (s)

mp = 2773 K (2500 °C)

$$\Delta H_{298}^0 = -126.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 42.89 + 7.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2200 \text{ K}) [4]$$

CTi (s)	Titanium Carbide	CTi (s)
TiC (s)		TiC (s)

mp = 3340 K (3067 °C)

$$\Delta H_{298}^0 = -184.1 \pm 4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 24.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 46.88 + 5.9 \cdot 10^{-3} \cdot T - 1.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CTi (l) TiC (l)	Titanium Carbide	CTi (l) TiC (l)
$\Delta H_{298}^0 = -108.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 47.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 33.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CU (s) UC (s)	Uranium Carbide	CU (s) UC (s)
mp = 2803 K (2530 °C)		
$\Delta H_{298}^0 = -98.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 59.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.28 + 7.39 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CV₂ (s) V ₂ C (s)	Vanadium Carbide	CV₂ (s) V ₂ C (s)
$\Delta H_{298}^0 = -117.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 51.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CW (s) WC (s)	Tungsten Carbide	CW (s) WC (s)
$\Delta H_{298}^0 = -40.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 34.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 43.38 + 8.64 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} - 1.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
CW₂ (s) W ₂ C (s)	Tungsten Carbide	CW₂ (s) W ₂ C (s)
mp = 3058 K (2785 °C)		
$\Delta H_{298}^0 = -26.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.75 + 10.88 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
CZr (s) ZrC (s)	Zirconium Carbide	CZr (s) ZrC (s)
mp = 3690 K (3417 °C)		
$\Delta H_{298}^0 = -207.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 33.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.66 + 10.46 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CZr (l) ZrC (l)	Zirconium Carbide	CZr (l) ZrC (l)
$\Delta H_{298}^0 = -118.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 53.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C_{1.94}U (s) UC _{1.94} (s)	Uranium Carbide	C_{1.94}U (s) UC _{1.94} (s)
mp = 2858 K (2585 °C)		
$\Delta H_{298}^0 = -87 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂ (g)	Carbon	C₂ (g)
$\Delta H_{298}^0 = 837.7 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 199.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.88 + 2.6 \cdot 10^{-3} \cdot T + 0.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 4055 K) [4]		
$\lg(p, K) = -44.29 \cdot 10^3 \cdot T^{-1} - 1.12 \cdot \lg(T) + 14.07$ (2300 ... 4055 K) [4]		
{Reaction: evaporation of C(s)}		
C₂Ca (s) CaC ₂ (s)	Calcium Carbide alpha	C₂Ca (s) CaC ₂ (s)
mp = 2573 K (2300 °C)		
$\Delta H_{298}^0 = -59.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 70.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.62 + 11.88 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 720 K) [4]		
C₂Ca (s) CaC ₂ (s)	Calcium Carbide alpha	C₂Ca (s) CaC ₂ (s)
$\Delta H_{720}^0 = -29.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{720}^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₂Ca (s) CaC ₂ (s)	Calcium Carbide beta	C₂Ca (s) CaC ₂ (s)
$\Delta H_{720}^0 = -24.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{720}^0 = 139.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 64.43 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (720 ... 2573 K) [4]		

C₂CaMgO₆ (s) CaCO ₃ · MgCO ₃ (s)	Calcium Magnesium Carbonate Dolomite	C₂CaMgO₆ (s) CaCO ₃ · MgCO ₃ (s)
$\Delta H_{298}^0 = -2326.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 155.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 155.23 + 80.33 \cdot 10^{-3} \cdot T - 2.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 703 K) [4]		
C₂Ce (s) CeC ₂ (s)	Cerium Dicarbide	C₂Ce (s) CeC ₂ (s)
mp = 2693 K (2420 °C)		
$\Delta H_{298}^0 = -97.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.62 + 9.2 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
C₂ClH (g) C ₂ HCl (g)	Chloroethyne	C₂ClH (g) C ₂ HCl (g)
$\Delta H_{298}^0 = 213.8 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 242 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₂ClH₃ (g) C ₂ H ₃ Cl (g)	Chloroethene	C₂ClH₃ (g) C ₂ H ₃ Cl (g)
$\Delta H_{298}^0 = 35.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 264 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 53.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂ClH₅ (g) C ₂ H ₅ Cl (g)	Chloroethane	C₂ClH₅ (g) C ₂ H ₅ Cl (g)
$\Delta H_{298}^0 = -111.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 276 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 62.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂Cl₂ (g)	Dichloroethyne	C₂Cl₂ (g)
$\Delta H_{298}^0 = 209.6 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 272 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

C₂Cl₄ (g)	Tetrachloroethene	C₂Cl₄ (g)
		bp = 394 K (121 °C)
$\Delta H_{298}^0 = -12.4 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 343.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 123.24 + 4.45 \cdot 10^{-3} \cdot T - 2.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
C₂Cl₆ (g)	Tetrachloroethane	C₂Cl₆ (g)
		bp = 457 K (184 °C)
$\Delta H_{298}^0 = -134.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 397.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 171.72 + 7.83 \cdot 10^{-3} \cdot T - 3.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
C₂Cr₃ (s) Cr ₃ C ₂ (s)	Chromium Carbide	C₂Cr₃ (s) Cr ₃ C ₂ (s)
mp = 2188 K (1915 °C)		
$\Delta H_{298}^0 = -85.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 85.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 123.26 + 25.9 \cdot 10^{-3} \cdot T - 2.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2168 K) [4]		
C₂FH (g) C ₂ HF (g)	Fluoroethyne	C₂FH (g) C ₂ HF (g)
$\Delta H_{298}^0 = 125.5 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 231.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₂F₂ (g)	Diffluoroethyne	C₂F₂ (g)
$\Delta H_{298}^0 = 20.9 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 244.1 \pm 63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₂F₃N (g) CF ₃ CN (g)	Trifluoroacetonitrile	C₂F₃N (g) CF ₃ CN (g)
$\Delta H_{298}^0 = -495.4 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 298.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

C₂F₄ (g)	Tetrafluoroethene	C₂F₄ (g)
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$$\Delta H_{298}^0 = -658.6 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 300 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 80.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

C₂F₆ (g)	Hexafluoroethane	C₂F₆ (g)
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$$\text{mp} = 173 \text{ K } (-100 \text{ }^\circ\text{C})$$

$$\text{bp} = 195 \text{ K } (-78 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1343.9 \pm 5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 332.2 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 136.24 + 46.82 \cdot 10^{-3} \cdot T - 3.87 \cdot 10^6 \cdot T^{-2} - 13.65 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

C₂H (g)	Ethyne	C₂H (g)
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$$\Delta H_{298}^0 = 477 \pm 29 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 207.4 \pm 5.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

C₂H₂ (g)	Ethyne	C₂H₂ (g)
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$$\text{mp} = 192 \text{ K } (-81 \text{ }^\circ\text{C})$$

$$\text{bp} = 189 \text{ K } (-84 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 226.7 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 201 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.63 + 31.65 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} - 6.31 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

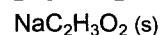
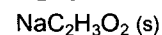
C₂H₂O (g)	Ethenone	C₂H₂O (g)
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$$\Delta H_{298}^0 = -61.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 241.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

C₂H₃NaO₂ (s)	Sodium Acetate	C₂H₃NaO₂ (s)
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$$\Delta H_{298}^0 = -709 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 80 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

C₂H₄ (g)	Ethene	C₂H₄ (g)
mp = 104 K (-169 °C)		bp = 169 K (-104 °C)
$\Delta H_{298}^0 = 52.5 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 219.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 39.29 + 57.13 \cdot 10^{-3} \cdot T - 1.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
C₂H₄O (g)	Acetaldehyde	C₂H₄O (g)
$\Delta H_{298}^0 = -166.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 264.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 53.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂H₄O (g)	Oxirane	C₂H₄O (g)
$\Delta H_{298}^0 = -52.6 \pm 0.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 243 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 47.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₂H₄O₂ (l)	Acetic Acid	C₂H₄O₂ (l)
$\Delta H_{298}^0 = -484.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 159.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂H₄O₂ (g)	Acetic Acid	C₂H₄O₂ (g)
$\Delta H_{298}^0 = -434.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 282.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₂H₆ (g)	Ethane	C₂H₆ (g)
mp = 101 K (-172 °C)		bp = 185 K (-88 °C)
$\Delta H_{298}^0 = -84.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 229.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 28.19 + 122.6 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} - 27.84 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		

C₂H₆O (l)	Ethanol	C₂H₆O (l)
C ₂ H ₅ OH (l)		C ₂ H ₅ OH (l)

mp = 161 K (-112 °C)

bp = 351 K (78 °C)

 $\Delta H_{298}^0 = -277 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 160.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 112.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(p, K) = -2.95 \cdot 10^3 \cdot T^{-1} - 5.3 \cdot \lg(T) + 21.91$ (298 ... 351 K) [4]

{Reaction: evaporation}

C₂H₆O (g)	Ethanol	C₂H₆O (g)
C ₂ H ₅ OH (g)		C ₂ H ₅ OH (g)

 $\Delta H_{298}^0 = -234.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 282.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 65.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₂K₂N₂ (g)	Potassium Cyanide	C₂K₂N₂ (g)
(KCN) ₂ (g)		(KCN) ₂ (g)

 $\Delta H_{298}^0 = -8.4 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 373.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 116.1 + 7.51 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -10.53 \cdot 10^3 \cdot T^{-1} - 2.97 \cdot \lg(T) + 13.51$ (895 ... 1896 K) [4]

{Reaction: evaporation of KCN(s)}

C₂La (s)	Lanthanum Carbide	C₂La (s)
LaC ₂ (s)		LaC ₂ (s)

 $\Delta H_{298}^0 = -87.9 \text{ kJ}\cdot\text{mol}^{-1}$ [96] $S_{298}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]

C₂La (g)	Lanthanum Carbide	C₂La (g)
LaC ₂ (g)		LaC ₂ (g)

 $\Delta H_{298}^0 = 594.1 \text{ kJ}\cdot\text{mol}^{-1}$ [96] $S_{298}^0 = 261.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]

C₂Li₂ (s)	Lithium Carbide	C₂Li₂ (s)
Li ₂ C ₂ (s)		Li ₂ C ₂ (s)

mp = 1200 K (927 °C)

$$\Delta H_{298}^0 = -59.4 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 58.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 101.84 + 10.21 \cdot 10^{-3} \cdot T - 2.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

C₂Mg (s)	Magnesium Carbide	C₂Mg (s)
MgC ₂ (s)		MgC ₂ (s)

$$\Delta H_{298}^0 = 87.9 \pm 21 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 54.4 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.21 + 6.44 \cdot 10^{-3} \cdot T - 1.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 873 \text{ K}) [4]$$

C₂N (g)	CNC-Radical	C₂N (g)
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$$\Delta H_{298}^0 = 556.5 \pm 126 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 230.9 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 45.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

C₂N₂ (g)	Dicyan	C₂N₂ (g)
(CN) ₂ (g)		(CN) ₂ (g)

mp = 239 K (-34 °C)

bp = 253 K (-20 °C)

$$\Delta H_{298}^0 = 309.1 \pm 1.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 241.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 56.07 + 27.43 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} - 6.85 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

C₂N₂Na₂ (g)	Sodium Cyanide	C₂N₂Na₂ (g)
(NaCN) ₂ (g)		(NaCN) ₂ (g)

$$\Delta H_{298}^0 = -8.8 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 347.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 116.06 + 7.61 \cdot 10^{-3} \cdot T - 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -8.94 \cdot 10^3 \cdot T^{-1} - 4.06 \cdot \lg(T) + 17.31 (835 \dots 1779 \text{ K}) [4]$$

{Reaction: evaporation of NaCN(s)}

C₂O (g)	Carbon Suboxide	C₂O (g)
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$$\Delta H_{298}^0 = 286.6 \pm 63 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 233.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

C₂Pu (s) PuC ₂ (s)	Plutonium Carbide	C₂Pu (s) PuC ₂ (s)
mp = 2623 K (2350 °C)		
$\Delta H_{298}^0 = -32.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 102.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.17 + 27.03 \cdot 10^{-3} \cdot T - 1.15 \cdot 10^6 \cdot T^{-2} - 5.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2623 K) [4]		
C₂Si (g) SiC ₂ (g)	Silicon Carbide	C₂Si (g) SiC ₂ (g)
$\Delta H_{298}^0 = 615 \pm 29 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 236.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.64 + 3.59 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2818 K) [4]		
C₂Sm (s) SmC ₂ (s)	Samarium Carbide	C₂Sm (s) SmC ₂ (s)
$\Delta H_{298}^0 = -71.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.62 + 11.3 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1443 K) [4]		
C₂Sr (s) SrC ₂ (s)	Strontium Carbide	C₂Sr (s) SrC ₂ (s)
$\Delta H_{298}^0 = -84.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.62 + 11.3 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
C₂Th (s) ThC ₂ (s)	Thorium Carbide alpha	C₂Th (s) ThC ₂ (s)
mp = 2883 K (2610 °C)		
$\Delta H_{298}^0 = -125.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 68.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 63.89 + 12.09 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1700 K) [4]		
C₂Th (s) ThC ₂ (s)	Thorium Carbide alpha	C₂Th (s) ThC ₂ (s)
$\Delta H_{1700}^0 = -21.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1700}^0 = 191.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

C₂Th (s) ThC ₂ (s)	Thorium Carbide beta	C₂Th (s) ThC ₂ (s)
$\Delta H_{1700}^0 = -19.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 83.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1700 K) [4]		$S_{1700}^0 = 193.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₂Th (s) ThC ₂ (s)	Thorium Carbide beta	C₂Th (s) ThC ₂ (s)
$\Delta H_{1763}^0 = -13.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1763}^0 = 196.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₂Th (s) ThC ₂ (s)	Thorium Carbide gamma	C₂Th (s) ThC ₂ (s)
$\Delta H_{1763}^0 = -3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 83.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1763 K) [4]		$S_{1763}^0 = 202 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₂Th (g) ThC ₂ (g)	Thorium Carbide	C₂Th (g) ThC ₂ (g)
$\Delta H_{298}^0 = 724 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 54.27 + 2.69 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2883 K) [4]		$S_{298}^0 = 256.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₂U (s) UC ₂ (s)	Uranium Carbide	C₂U (s) UC ₂ (s)
mp = 2858 K (2585 °C) $\Delta H_{298}^0 = -91.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 69.04 + 8.54 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2041 K) [4]		$S_{298}^0 = 71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₃ (g)	Carbon	C₃ (g)
$\Delta H_{298}^0 = 820 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 42.3 + 3.7 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 4055 K) [4] $\lg(p, K) = -43.5 \cdot 10^3 \cdot T^{-1} - 2.62 \cdot \lg(T) + 20.08$ (2200 ... 4055 K) [4] {Reaction: evaporation of C(s)}		$S_{298}^0 = 237.2 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

C₃Ce₂ (s)	Cerium Carbide	C₃Ce₂ (s)
Ce ₂ C ₃ (s)		Ce ₂ C ₃ (s)

mp = 1778 K (1505 °C)

 $\Delta H_{298}^0 = -176.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 122.38 + 11.92 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (293 ... 1500 K) [4]

C₃Cr₇ (s)	Chromium Carbide	C₃Cr₇ (s)
Cr ₇ C ₃ (s)		Cr ₇ C ₃ (s)

mp = 2055 K (1782 °C)

 $\Delta H_{298}^0 = -160.7 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 201 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 233.89 + 62.34 \cdot 10^{-3} \cdot T - 3.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2055 K) [4]

C₃H₄ (g)	Propadiene	C₃H₄ (g)
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 $\Delta H_{298}^0 = 192.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 244 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 59.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₃H₄ (g)	Propyne	C₃H₄ (g)
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 $\Delta H_{298}^0 = 185.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 248.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 60.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₃H₆ (g)	Cyclopropane	C₃H₆ (g)
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 $\Delta H_{298}^0 = 53.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 238 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 90.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₃H₆ (g)	Propene	C₃H₆ (g)
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 $\Delta H_{298}^0 = 20.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 267 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 63.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₃H₆O (l)	Acetone	C₃H₆O (l)
$\Delta H_{298}^0 = -248.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 200.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₃H₆O (g)	Acetone	C₃H₆O (g)
$\Delta H_{298}^0 = -217.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 295 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₃H₈ (g)	Propan	C₃H₈ (g)
mp = 86 K (-187 °C)		bp = 231 K (-42 °C)
$\Delta H_{298}^0 = -103.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 270 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 19.01 + 224.48 \cdot 10^{-3} \cdot T - 0.58 \cdot 10^6 \cdot T^{-2} - 66.47 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
C₃Mg₂ (s)	Magnesium Carbide	C₃Mg₂ (s)
Mg ₂ C ₃ (s)		Mg ₂ C ₃ (s)
$\Delta H_{298}^0 = 79.5 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 100.4 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 118.74 + 10.71 \cdot 10^{-3} \cdot T - 2.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
C₃Mn₇ (s)	Manganese Carbide	C₃Mn₇ (s)
Mn ₇ C ₃ (s)		Mn ₇ C ₃ (s)
mp = 1623 K (1350 °C)		
$\Delta H_{298}^0 = -110.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 238.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 246.65 + 54.81 \cdot 10^{-3} \cdot T - 3.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1623 K) [4]		
C₃O₂ (g)	Carbon Suboxide	C₃O₂ (g)
$\Delta H_{298}^0 = -93.6 \pm 1.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 276.1 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 66.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

C₃Pu₂ (s)	Plutonium Carbide	C₃Pu₂ (s)
Pu ₂ C ₃ (s)		Pu ₂ C ₃ (s)

mp = 2323 K (2050 °C)

$$\Delta H_{298}^0 = -168.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 150 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 97.82 + 40.79 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2323 \text{ K}) [4]$$

C₃U₂ (s)	Uranium Carbide	C₃U₂ (s)
U ₂ C ₃ (s)		U ₂ C ₃ (s)

$$\Delta H_{298}^0 = -185.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 137.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 121 + 12.8 \cdot 10^{-3} \cdot T - 1.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2096 \text{ K}) [4]$$

C₄ (g)	Carbon	C₄ (g)
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$$\Delta H_{298}^0 = 971 \pm 33 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 228.3 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 50.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

C₄H₆ (g)	But-1-yne	C₄H₆ (g)
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$$\Delta H_{298}^0 = 166.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 290.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 116.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

C₄H₈ (g)	Cyclobutane	C₄H₈ (g)
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$$\Delta H_{298}^0 = 26.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 265.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 70.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

C₄H₁₀ (g)	n-Butane	C₄H₁₀ (g)
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mp = 138 K (-135 °C)

bp = 272 K (-1 °C)

$$\Delta H_{298}^0 = -126.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 310.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 40.25 + 265.08 \cdot 10^{-3} \cdot T - 1.27 \cdot 10^6 \cdot T^{-2} - 76.36 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

C₄H₁₂Si (g) Si(CH ₃) ₄ (g)	Tetramethylsilane	C₄H₁₂Si (g) Si(CH ₃) ₄ (g)
$\Delta H_{298}^0 = -286.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 361.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 138.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₄Mn₁₅ (s) Mn ₁₅ C ₄ (s)	Manganese Carbide	C₄Mn₁₅ (s) Mn ₁₅ C ₄ (s)
$\Delta H_{298}^0 = -175.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 136 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 448 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₄N₂ (g)	2-Butynedinitrile	C₄N₂ (g)
$\Delta H_{298}^0 = 533.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 290.1 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 85.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₄NiO₄ (l) Ni(CO) ₄ (l)	Nickel Tetracarbonyl	C₄NiO₄ (l) Ni(CO) ₄ (l)
mp = 254 K (-19 °C)		
$\Delta H_{298}^0 = -631.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 319.6 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 187.28 + 55.23 \cdot 10^{-3} \cdot T + 0.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 315 K) [4]		
C₄NiO₄ (g) Ni(CO) ₄ (g)	Nickel Tetracarbonyl	C₄NiO₄ (g) Ni(CO) ₄ (g)
$\Delta H_{298}^0 = -601.6 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 415.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 161.12 + 29.82 \cdot 10^{-3} \cdot T - 2.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
C₅ (g)	Carbon	C₅ (g)
$\Delta H_{298}^0 = 979 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 242 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

C₅FeO₅ (l) Fe(CO) ₅ (l)	Iron Pentacarbonyl	C₅FeO₅ (l) Fe(CO) ₅ (l)
$\Delta H_{298}^0 = -766.1 \pm 7.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 337.1 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 233.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
C₅FeO₅ (g) Fe(CO) ₅ (g)	Iron Pentacarbonyl	C₅FeO₅ (g) Fe(CO) ₅ (g)
$\Delta H_{298}^0 = -725.9 \pm 7.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 439.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 190.79 + 45.4 \cdot 10^{-3} \cdot T - 3.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
C₅H₈ (g)	Cyclopentene	C₅H₈ (g)
$\Delta H_{298}^0 = 32.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 289.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₅H₈ (g)	Penta-1.2-diene	C₅H₈ (g)
$\Delta H_{298}^0 = 145.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 333.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 105.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₅H₁₀ (g)	Cyclopentane	C₅H₁₀ (g)
$\Delta H_{298}^0 = -77.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 293 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₅H₁₂ (l)	n-Pentan	C₅H₁₂ (l)
mp = 145 K (-128 °C)		bp = 309 K (36 °C)
$\Delta H_{298}^0 = -173.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 259.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 165.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -2.04 \cdot 10^3 \cdot T^{-1} - 4.68 \cdot \lg(T) + 18.25$ (298 ... 309 K) [4]		
{Reaction: evaporation}		

C₅H₁₂ (l)	n-Pentan	C₅H₁₂ (l)
$\Delta H_{309}^0 = -172 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{309}^0 = 265.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
C₅H₁₂ (g)	n-Pentan	C₅H₁₂ (g)
$\Delta H_{309}^0 = -145 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{309}^0 = 353.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.68 + 136.9 \cdot 10^{-3} \cdot T - 3.24 \cdot 10^6 \cdot T^{-2} - 25.62 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (309 ... 1000 K) [4]		
C₅H₁₂ (g)	n-Pentan	C₅H₁₂ (g)
$\Delta H_{298}^0 = -146.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 349.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 120.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₆ClH₅ (g)	Chlorobenzene	C₆ClH₅ (g)
C ₆ H ₅ Cl (g)		C ₆ H ₅ Cl (g)
$\Delta H_{298}^0 = 51.8 \text{ kJ}\cdot\text{mol}^{-1}$ [182]		$S_{298}^0 = 313.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [182]
$C_p^0 = 99.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [182]		
C₆CrO₆ (s)	Chromium Hexacarbonyl	C₆CrO₆ (s)
Cr(CO) ₆ (s)		Cr(CO) ₆ (s)
mp = 425 K (152 °C)		bp = 424 K (151 °C)
$\Delta H_{298}^0 = -1077.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 314.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 217.69 + 75.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 424 K) [4]		
$\lg(p, K) = -4.13 \cdot 10^3 \cdot T^{-1} - 3.92 \cdot \lg(T) + 20.04$ (298 ... 424 K) [4]		
{Reaction: evaporation}		
C₆CrO₆ (s)	Chromium Hexacarbonyl	C₆CrO₆ (s)
Cr(CO) ₆ (s)		Cr(CO) ₆ (s)
$\Delta H_{424}^0 = -1046.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{424}^0 = 400.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

C₆CrO₆ (g) Cr(CO) ₆ (g)	Chromium Hexacarbonyl	C₆CrO₆ (g) Cr(CO) ₆ (g)
$\Delta H_{424}^0 = -981.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{424}^0 = 554.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 218.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (424 K) [4]		
$\lg(p, K) = -3.11 \cdot 10^3 \cdot T^{-1} - 0.58 \cdot \lg(T) + 8.13$ (424 ... 800 K) [4]		
{Reaction: evaporation of Cr(CO) ₆ (l)}		
C₆CrO₆ (g) Cr(CO) ₆ (g)	Chromium Hexacarbonyl	C₆CrO₆ (g) Cr(CO) ₆ (g)
$\Delta H_{298}^0 = -1008 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 479.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 169.24 + 117.15 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
C₆Cr₂₃ (s) Cr ₂₃ C ₆ (s)	Chromium Carbide	C₆Cr₂₃ (s) Cr ₂₃ C ₆ (s)
mp = 1791 K (1518 °C)		
$\Delta H_{298}^0 = -328.4 \pm 41.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 612.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 683.25 + 209.2 \cdot 10^{-3} \cdot T - 10.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1791 K) [4]		
C₆H₆ (l)	Benzene	C₆H₆ (l)
mp = 279 K (6 °C)		bp = 353 K (80 °C)
$\Delta H_{298}^0 = 49 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 171.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 136.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -2.5 \cdot 10^3 \cdot T^{-1} - 5.43 \cdot \lg(T) + 20.9$ (298 ... 353 K) [4]		
{Reaction: evaporation}		
C₆H₆ (g)	Benzene	C₆H₆ (g)
$\Delta H_{298}^0 = 82.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 269.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

C₆H₆O (g) C ₆ H ₅ OH (g)	Phenol	C₆H₆O (g) C ₆ H ₅ OH (g)
$\Delta H_{298}^0 = -96.4 \text{ kJ}\cdot\text{mol}^{-1}$ [182] $C_p^0 = 104.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [182]		$S_{298}^0 = 309.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [182]
C₆H₁₀ (l)	Cyclohexene	C₆H₁₀ (l)
$\Delta H_{298}^0 = -38.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 216.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
C₆H₁₀ (g)	Cyclohexene	C₆H₁₀ (g)
$\Delta H_{298}^0 = -5.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 103.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 310.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
C₆H₁₂ (l)	Cyclohexane	C₆H₁₂ (l)
$\Delta H_{298}^0 = -156.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 156.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 204.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
C₆H₁₂ (g)	Cyclohexane	C₆H₁₂ (g)
$\Delta H_{298}^0 = -123.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 105.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 298.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
C₆H₁₂ (l)	Methylcyclopentane	C₆H₁₂ (l)
$\Delta H_{298}^0 = -138.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 158.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 247.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
C₆H₁₂ (g)	Methylcyclopentane	C₆H₁₂ (g)
$\Delta H_{298}^0 = -106.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 109.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 340 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

C₆H₁₄ (l)	n-Hexane	C₆H₁₄ (l)
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mp = 178 K (-95 °C)

 $\Delta H_{298}^0 = -198.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 195.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 342 K) [4] $\lg(p,K) = -2.29 \cdot 10^3 \cdot T^{-1} - 4.68 \cdot \lg(T) + 18.54$ (298 ... 342 K) [4]

{Reaction: evaporation}

bp = 342 K (69 °C)

 $S_{298}^0 = 292.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

C₆H₁₄ (l)	n-Hexane	C₆H₁₄ (l)
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 $\Delta H_{342}^0 = -190.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{342}^0 = 319.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

C₆H₁₄ (g)	n-Hexane	C₆H₁₄ (g)
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 $\Delta H_{342}^0 = -160 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{342}^0 = 408.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 65.65 + 377.59 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} - 109.54 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (342 ... 1000 K) [4]

C₆H₁₄ (g)	n-Hexane	C₆H₁₄ (g)
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 $\Delta H_{298}^0 = -167.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 388.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 143 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

C₆MoO₆ (s) Mo(CO) ₆ (s)	Molybdenum Hexacarbonyl	C₆MoO₆ (s) Mo(CO) ₆ (s)
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 $\Delta H_{298}^0 = -983.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]bp = 439 K (166 °C)
 $S_{298}^0 = 327.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 217.32 + 83.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 439 K) [4]

C₆MoO₆ (g) Mo(CO) ₆ (g)	Molybdenum Hexacarbonyl	C₆MoO₆ (g) Mo(CO) ₆ (g)
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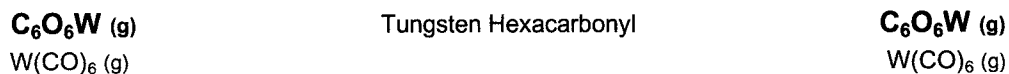
 $\Delta H_{298}^0 = -915.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 482.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 178.87 + 108.78 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4] $\lg(p,K) = -3.98 \cdot 10^3 \cdot T^{-1} - 3.51 \cdot \lg(T) + 18.34$ (298 ... 439 K) [4]{Reaction: evaporation of Mo(CO)₆(s)}



$$\Delta H_{298}^0 = -951.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 332.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 164.6 + 261.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 451 \text{ K}) [4]$$



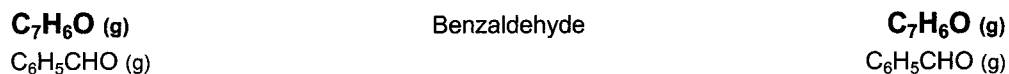
$$\Delta H_{298}^0 = -876.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 501.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 294.32 + 21.46 \cdot 10^{-3} \cdot T - 8.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 800 \text{ K}) [4]$$

$$\lg(p, K) = -4.36 \cdot 10^3 \cdot T^{-1} - 3.14 \cdot \lg(T) + 17.99 (298 \dots 451 \text{ K}) [4]$$

{Reaction: evaporation of W(CO)₆(s)}



$$\Delta H_{298}^0 = -65.1 \text{ kJ}\cdot\text{mol}^{-1} [182]$$

$$S_{298}^0 = 329.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [182]$$

$$C_p^0 = 114.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [182]$$



$$\Delta H_{298}^0 = 12 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 221 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

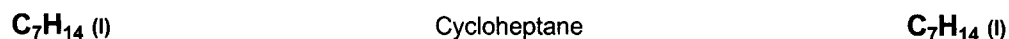
$$C_p^0 = 166 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\Delta H_{298}^0 = 50 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 320.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 105.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\Delta H_{298}^0 = -158.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 242.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 180.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

C₇H₁₄ (g)	Cycloheptane	C₇H₁₄ (g)
$\Delta H_{298}^0 = -119.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 342.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 122.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₇H₁₄ (l)	Methylcyclohexane	C₇H₁₄ (l)
$\Delta H_{298}^0 = -190.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 247.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 184.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₇H₁₄ (g)	Methylcyclohexane	C₇H₁₄ (g)
$\Delta H_{298}^0 = -154.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 343.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 134.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₇H₁₆ (l)	Heptane	C₇H₁₆ (l)
$\Delta H_{298}^0 = -224.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 328.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 224.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₇H₁₆ (g)	Heptane	C₇H₁₆ (g)
$\Delta H_{298}^0 = -187.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 428 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 165.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₀ (l)	o-Xylene	C₈H₁₀ (l)
$\Delta H_{298}^0 = -24.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 246 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 188.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₀ (g)	o-Xylene	C₈H₁₀ (g)
$\Delta H_{298}^0 = 19 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 352.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 133.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

C₈H₁₀ (l)	Ethylbenzene	C₈H₁₀ (l)
$\Delta H_{298}^0 = -12.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 185.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₀ (g)	Ethylbenzene	C₈H₁₀ (g)
$\Delta H_{298}^0 = 29.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 360.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 128.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₆ (l)	Ethylcyclohexane	C₈H₁₆ (l)
$\Delta H_{298}^0 = -212.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 280.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 211.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₆ (g)	Ethylcyclohexane	C₈H₁₆ (g)
$\Delta H_{298}^0 = -171.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 382.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 158.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₈ (l)	Octane	C₈H₁₈ (l)
$\Delta H_{298}^0 = -250 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 361.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 254.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₈H₁₈ (g)	Octane	C₈H₁₈ (g)
$\Delta H_{298}^0 = -208.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 466.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 193.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₉H₂₀ (l)	Nonane	C₉H₂₀ (l)
$\Delta H_{298}^0 = -275.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 393.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 284.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

C₉H₂₀ (g)	Nonane	C₉H₂₀ (g)
$\Delta H_{298}^0 = -229 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 505.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 217.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₁₀H₂₂ (l)	Decane	C₁₀H₂₂ (l)
$\Delta H_{298}^0 = -301 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 425.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 314.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₁₀H₂₂ (g)	Decane	C₁₀H₂₂ (g)
$\Delta H_{298}^0 = -249.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 544.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 241.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
C₆₀ (s)	Fullerene - 60	C₆₀ (s)
$\Delta H_{298}^0 = 2282.3 \pm 9.6 \text{ kJ}\cdot\text{mol}^{-1}$ [274]		
Ca (s)	Calcium alpha	Ca (s)
mp = 1115 K (842 °C)		bp = 1774 K (1501 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 16.38 + 22.11 \cdot 10^{-3} \cdot T + 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 716 K) [4]		
Ca (s)	Calcium alpha	Ca (s)
$\Delta H_{716}^0 = 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{716}^0 = 66.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca (s)	Calcium beta	Ca (s)
$\Delta H_{716}^0 = 13 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{716}^0 = 67.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 6.28 + 32.38 \cdot 10^{-3} \cdot T + 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (716 ... 1115 K) [4]		
$\lg(p, K) = -9.7 \cdot 10^3 \cdot T^{-1} - 1.99 \cdot \lg(T) + 12.08$ (716 ... 1115 K) [4]		
{Reaction: evaporation as Ca(g)}		

Ca (s)	Calcium beta	Ca (s)
$\Delta H_{1115}^0 = 27.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1115}^0 = 84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca (l)	Calcium	Ca (l)
$\Delta H_{1115}^0 = 36.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1115}^0 = 91.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1115 K) [4]		
$\lg(p, K) = -9.1 \cdot 10^3 \cdot T^{-1} - 1.71 \cdot \lg(T) + 10.67$ (1115 ... 1774 K) [4]		
{Reaction: evaporation as Ca(g)}		
Ca (s)	Calcium beta	Ca (s)
$\Delta H_{298}^0 = 1.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 43.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 6.28 + 32.38 \cdot 10^{-3} \cdot T + 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (716 ... 1115 K) [4]		
Ca (l)	Calcium	Ca (l)
$\Delta H_{298}^0 = 7.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 45.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1115 K) [4]		
Ca (g)	Calcium	Ca (g)
$\Delta H_{298}^0 = 177.8 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 154.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CaCl (g)	Calcium(I) Chloride	CaCl (g)
$\Delta H_{298}^0 = -104.6 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 241.6 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.26 + 0.57 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CaCl₂ (s)	Calcium(II) Chloride	CaCl₂ (s)
mp = 1045 K (772 °C)		bp = 2279 K (2006 °C)
$\Delta H_{298}^0 = -795.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.84 + 15.39 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1045 K) [4]		
$\lg(p,K) = -17.49 \cdot 10^3 \cdot T^{-1} - 2.72 \cdot \lg(T) + 17.77$ (1000 ... 1045 K) [4]		
{Reaction: evaporation as CaCl ₂ (g)}		
CaCl₂ (s)	Calcium(II) Chloride	CaCl₂ (s)
$\Delta H_{1045}^0 = -735.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1045}^0 = 206.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CaCl₂ (l)	Calcium(II) Chloride	CaCl₂ (l)
$\Delta H_{1045}^0 = -708.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1045}^0 = 232.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1045 K) [4]		
$\lg(p,K) = -17.03 \cdot 10^3 \cdot T^{-1} - 4.85 \cdot \lg(T) + 23.76$ (1045 ... 2279 K) [4]		
{Reaction: evaporation as CaCl ₂ (g)}		
CaCl₂ (l)	Calcium(II) Chloride	CaCl₂ (l)
$\Delta H_{298}^0 = -774.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 123.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CaCl₂ (g)	Calcium(II) Chloride	CaCl₂ (g)
$\Delta H_{298}^0 = -471.5 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 290.3 \pm 8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.13 + 0.14 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2279 K) [4]		
CaCl₂O (s)	Calcium Chloride Hypochlorite	CaCl₂O (s)
Ca(OCl)Cl (s)		Ca(OCl)Cl (s)
$\Delta H_{298}^0 = -746.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

CaCl₅Ga (g)	Calcium Gallium Chloride	CaCl₅Ga (g)
CaGaCl ₅ (g)		CaGaCl ₅ (g)

$$\Delta H_{298}^0 = -1052.2 \text{ kJ}\cdot\text{mol}^{-1} [168, 8]$$

$$S_{298}^0 = 477.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [168, 8]$$

CaCl₈Ga₂ (g)	Calcium Gallium Chloride	CaCl₈Ga₂ (g)
CaGa ₂ Cl ₈ (g)		CaGa ₂ Cl ₈ (g)

$$\Delta H_{298}^0 = -1701.4 \text{ kJ}\cdot\text{mol}^{-1} [168, 8]$$

$$S_{298}^0 = 643.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [168, 8]$$

CaCr₂O₄ (s)	Calcium Chromate(III)	CaCr₂O₄ (s)
CaO · Cr ₂ O ₃ (s)		CaO · Cr ₂ O ₃ (s)

$$\text{mp} = 2370 \text{ K (2097 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1829.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 125.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 169.66 + 13.26 \cdot 10^{-3} \cdot T - 2.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1918 \text{ K}) [4]$$

CaF (g)	Calcium(I) Fluoride	CaF (g)
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$$\Delta H_{298}^0 = -272 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 229.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.68 + 0.43 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CaF₂ (s)	Calcium(II) Fluoride	CaF₂ (s)
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$$\text{mp} = 1690 \text{ K (1417 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1229.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$\text{bp} = 2757 \text{ K (2484 } ^\circ\text{C)}$$

$$S_{298}^0 = 68.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 41.06 + 55.46 \cdot 10^{-3} \cdot T + 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1430 \text{ K}) [4]$$

$$\lg(p, K) = -25.29 \cdot 10^3 \cdot T^{-1} - 7.15 \cdot \lg(T) + 34.06 (1300 \dots 1430 \text{ K}) [4]$$

{Reaction: evaporation as CaF₂(g)}

CaF₂ (s)	Calcium(II) Fluoride	CaF₂ (s)
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$$\Delta H_{1690}^0 = -1094.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1690}^0 = 221.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CaF₂ (l)	Calcium(II) Fluoride	CaF₂ (l)
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$\Delta H_{1690}^0 = -1064.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1690}^0 = 238.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 99.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1690 K) [4]		
$\lg(p, K) = -22.02 \cdot 10^3 \cdot T^{-1} - 4.93 \cdot \lg(T) + 24.95$ (1690 ... 2000 K) [4]		
{Reaction: evaporation as CaF ₂ (g)}		

CaF₂ (l)	Calcium(II) Fluoride	CaF₂ (l)
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$\Delta H_{298}^0 = -1186.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 92.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 99.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1690 K) [4]		

CaF₂ (g)	Calcium(II) Fluoride	CaF₂ (g)
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$\Delta H_{298}^0 = -791.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 273.8 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.22 + 0.61 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CaFe₂O₄ (s)	Calcium Ferrate(III)	CaFe₂O₄ (s)
CaO · Fe ₂ O ₃ (s)		CaO · Fe ₂ O ₃ (s)

mp = 1489 K (1216 °C)		
$\Delta H_{298}^0 = -1479.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 145.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 164.93 + 19.92 \cdot 10^{-3} \cdot T - 1.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1489 K) [4]		

CaFe₂O₄ (s)	Calcium Ferrate(III)	CaFe₂O₄ (s)
CaO · Fe ₂ O ₃ (s)		CaO · Fe ₂ O ₃ (s)

$\Delta H_{1489}^0 = -1265.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1489}^0 = 425.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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CaFe₂O₄ (l)	Calcium Ferrate(III)	CaFe₂O₄ (l)
CaO · Fe ₂ O ₃ (l)		CaO · Fe ₂ O ₃ (l)

$\Delta H_{1489}^0 = -1157.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1489}^0 = 498.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 229.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1489 K) [4]		

CaGeO₃ (s)	Calcium Germanate	CaGeO₃ (s)
CaO · GeO ₂ (s)		CaO · GeO ₂ (s)

mp = 1693 K (1420 °C)

$$\Delta H_{298}^0 = -1285.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 120.5 + 16.11 \cdot 10^{-3} \cdot T - 2.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1693 \text{ K}) [4]$$

CaH (g)	Calcium(I) Hydride	CaH (g)
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$$\Delta H_{298}^0 = 228.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 201.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 32.13 + 3.1 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CaHO₄P (s)	Calcium Hydrogen Phosphate	CaHO₄P (s)
CaHPO ₄ (s)		CaHPO ₄ (s)

$$\Delta H_{298}^0 = -1814.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 111.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 138.41 + 55.1 \cdot 10^{-3} \cdot T - 4.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

CaHO_{4.5}S (s)	Calcium Sulfate Hemihydrate	CaHO_{4.5}S (s)
CaSO ₄ · 0.5H ₂ O (s)		CaSO ₄ · 0.5H ₂ O (s)

$$\Delta H_{298}^0 = -1576.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CaH₂ (s)	Calcium(II) Hydride alpha	CaH₂ (s)
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$$\Delta H_{298}^0 = -177 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 41.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 29.71 + 24.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1053 \text{ K}) [3]$$

CaH₂ (s)	Calcium(II) Hydride alpha	CaH₂ (s)
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$$\Delta H_{1053}^0 = -135.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1053}^0 = 107.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1053 \text{ K}) [2]$$

CaH₂ (s)	Calcium(II) Hydride beta	CaH₂ (s)
$\Delta H_{1053}^0 = -128.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1053}^0 = 113.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1053 K) [2]		
CaH₂O₂ (s) Ca(OH) ₂ (s)	Calcium Hydroxide	CaH₂O₂ (s) Ca(OH) ₂ (s)
$\Delta H_{298}^0 = -986.1 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 83.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 101.79 + 18 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 793 K) [4]		
$\lg(p,K) = -6.02 \cdot 10^3 \cdot T^{-1} - 2.25 \cdot \lg(T) + 14.11$ (400 ... 793 K) [4]		
{Reaction: decomposition Ca(OH) ₂ (s) = CaO(s) + H ₂ O(g)}		
CaH₂O₂ (g) Ca(OH) ₂ (g)	Calcium Hydroxide	CaH₂O₂ (g) Ca(OH) ₂ (g)
$\Delta H_{298}^0 = -610.8 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 285.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CaH₄N₂O₈ (s) Ca(NO ₃) ₂ · 2H ₂ O (s)	Calcium Nitrate Dihydrate	CaH₄N₂O₈ (s) Ca(NO ₃) ₂ · 2H ₂ O (s)
$\Delta H_{298}^0 = -1540.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 269.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 231.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CaH₄O₆S (s) CaSO ₄ · 2H ₂ O (s)	Calcium Sulfate Dihydrate, Gypsum	CaH₄O₆S (s) CaSO ₄ · 2H ₂ O (s)
$\Delta H_{298}^0 = -2022.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 194.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 186 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CaH₅O₆P (s) CaHPO ₄ · 2H ₂ O (s)	Calcium Hydrogen Phosphate Dihydrate	CaH₅O₆P (s) CaHPO ₄ · 2H ₂ O (s)
$\Delta H_{298}^0 = -2403.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 189.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 196.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

CaHfO₃ (s)	Calcium Hafnate	CaHfO₃ (s)
CaO · HfO ₂ (s)		CaO · HfO ₂ (s)

$$\Delta H_{298}^0 = -1779.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 99.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 121.71 + 13.56 \cdot 10^{-3} \cdot T - 1.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1500 K) [4]}$$

Cal (g)	Calcium(I) Iodide	Cal (g)
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$$\Delta H_{298}^0 = -5.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 261.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 37.37 + 0.34 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cal₂ (s)	Calcium(II) Iodide	Cal₂ (s)
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$$\text{mp} = 1052 \text{ K (779 } ^\circ\text{C)}$$

$$\text{bp} = 2033 \text{ K (1760 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -536.8 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 145.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 71.35 + 19.65 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1052 K) [4]}$$

$$\lg(p, K) = -15.2 \cdot 10^3 \cdot T^{-1} - 3.29 \cdot \lg(T) + 19.5 \text{ (900 ... 1052 K) [4]}$$

{Reaction: evaporation as Cal₂(g)}

Cal₂ (s)	Calcium(II) Iodide	Cal₂ (s)
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$$\Delta H_{1052}^0 = -473 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1052}^0 = 250 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cal₂ (l)	Calcium(II) Iodide	Cal₂ (l)
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$$\Delta H_{1052}^0 = -431.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1052}^0 = 289.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 103.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1052 K) [4]}$$

$$\lg(p, K) = -13.76 \cdot 10^3 \cdot T^{-1} - 4.94 \cdot \lg(T) + 23.11 \text{ (1052 ... 2033 K) [4]}$$

{Reaction: evaporation as Cal₂(g)}

Cal₂ (l)	Calcium(II) Iodide	Cal₂ (l)
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$$\Delta H_{298}^0 = -500.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 178.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 77.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

CaI₂ (g)	Calcium(II) Iodide	CaI₂ (g)
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$\Delta H_{298}^0 = -258.2 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 327.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.29 + 0.04 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2033 K) [4]	

CaMgO₂ (s)	Calcium Magnesium Oxide	CaMgO₂ (s)
CaO · MgO (s)		CaO · MgO (s)

$\Delta H_{298}^0 = -1243.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 66.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 97.82 + 7.66 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1800 K) [4]	

CaMgO₄Si (s)	Calcium Magnesium Silicate	CaMgO₄Si (s)
CaO · MgO · SiO ₂ (s)		CaO · MgO · SiO ₂ (s)

$\Delta H_{298}^0 = -2263.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 109.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 150.62 + 32.01 \cdot 10^{-3} \cdot T - 3.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]	

CaMgO₆Si₂ (s)	Calcium Magnesium Silicate Diopside	CaMgO₆Si₂ (s)
CaO · MgO · 2SiO ₂ (s)		CaO · MgO · 2SiO ₂ (s)

mp = 1665 K (1392 °C)	
$\Delta H_{298}^0 = -3203.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 143.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 186.02 + 123.76 \cdot 10^{-3} \cdot T - 5.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1665 K) [4]	

CaMgO₆Si₂ (s)	Calcium Magnesium Silicate	CaMgO₆Si₂ (s)
CaO · MgO · 2SiO ₂ (s)		CaO · MgO · 2SiO ₂ (s)

$\Delta H_{1665}^0 = -2865.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1665}^0 = 542.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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CaMgO₆Si₂ (l)	Calcium Magnesium Silicate	CaMgO₆Si₂ (l)
CaO · MgO · 2SiO ₂ (l)		CaO · MgO · 2SiO ₂ (l)

$\Delta H_{1665}^0 = -2737.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1665}^0 = 620 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 355.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1665 K) [4]	

CaMg₂ (s)	Calcium Magnesium	CaMg₂ (s)
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mp = 988 K (715 °C)

$$\Delta H_{298}^0 = -40.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 75.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 104.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

CaMoO₄ (s)	Calcium Molybdate	CaMoO₄ (s)
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CaO · MoO₃ (s)

CaO · MoO₃ (s)

mp = 1718 K (1445 °C)

$$\Delta H_{298}^0 = -1542.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 133.47 + 29.2 \cdot 10^{-3} \cdot T - 2.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1718 \text{ K}) [4]$$

CaN₂O₆ (s)	Calcium Nitrate	CaN₂O₆ (s)
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Ca(NO₃)₂ (s)

Ca(NO₃)₂ (s)

mp = 834 K (561 °C)

$$\Delta H_{298}^0 = -938.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 193.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 122.88 + 154.01 \cdot 10^{-3} \cdot T - 1.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 834 \text{ K}) [4]$$

CaNb₂O₆ (s)	Calcium Niobate	CaNb₂O₆ (s)
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CaO · Nb₂O₅ (s)

CaO · Nb₂O₅ (s)

mp = 1833 K (1560 °C)

$$\Delta H_{298}^0 = -2675.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 178.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 214.64 + 20.92 \cdot 10^{-3} \cdot T - 3.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1833 \text{ K}) [4]$$

CaO (s)	Calcium Oxide	CaO (s)
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$$\Delta H_{298}^0 = -635.1 \pm 0.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 38.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 50.42 + 4.18 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3200 \text{ K}) [4]$$

CaO (l)	Calcium Oxide	CaO (l)
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$$\Delta H_{298}^0 = -557.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 62.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 42.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CaO (g)	Calcium Oxide	CaO (g)
$\Delta H_{298}^0 = 43.9 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 219.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CaO₂ (s)	Calcium Peroxide	CaO₂ (s)
$\Delta H_{298}^0 = -659 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -3.21 \cdot 10^3 \cdot T^{-1} - 5.55 \cdot \lg(T) + 22.09$ (298 ... 429 K) [4]		
{Reaction: decomposition $2\text{CaO}_2(\text{s}) = 2\text{CaO}(\text{s}) + \text{O}_2(\text{g})$ }		
CaO₃S (s)	Calcium Sulfite	CaO₃S (s)
CaSO ₃ (s)		CaSO ₃ (s)
$\Delta H_{298}^0 = -1171.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 101.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.99 + 48.53 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 659 K) [4]		
CaO₃Si (s)	Calcium Silicate	CaO₃Si (s)
CaO · SiO ₂ (s)	Wollastonite	CaO · SiO ₂ (s)
$\Delta H_{298}^0 = -1634.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 81.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 111.46 + 15.06 \cdot 10^{-3} \cdot T - 2.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1450 K) [3]		
CaO₃Si (s)	Calcium Silicate	CaO₃Si (s)
CaO · SiO ₂ (s)	Pseudowollastonite	CaO · SiO ₂ (s)
$\Delta H_{298}^0 = -1628.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.16 + 16.48 \cdot 10^{-3} \cdot T - 2.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1700 K) [3]		
CaO₃Ti (s)	Calcium Titanate	CaO₃Ti (s)
CaO · TiO ₂ (s)	Perovskite	CaO · TiO ₂ (s)
mp = 2243 K (1970 °C)		
$\Delta H_{298}^0 = -1659 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 127.49 + 5.69 \cdot 10^{-3} \cdot T - 2.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1530 K) [4]		

CaO₃Zr (s)	Calcium Zirconate	CaO₃Zr (s)
CaO · ZrO ₂ (s)		CaO · ZrO ₂ (s)

mp = 2598 K (2325 °C)

$$\Delta H_{298}^0 = -1766.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 119.24 + 12.05 \cdot 10^{-3} \cdot T - 2.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CaO₄S (s)	Calcium Sulfate	CaO₄S (s)
CaSO ₄ (s)		CaSO ₄ (s)

mp = 1723 K (1450 °C)

$$\Delta H_{298}^0 = -1434.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 70.21 + 98.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1723 \text{ K}) [4]$$

CaO₄U (s)	Calcium Uranate(VI) alpha	CaO₄U (s)
CaO · UO ₃ (s)		CaO · UO ₃ (s)

$$\Delta H_{298}^0 = -1997.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 143.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 115.6 + 49.79 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (293 \dots 1025 \text{ K}) [4]$$

CaO₄W (s)	Calcium Tungstate(VI)	CaO₄W (s)
CaO · WO ₃ (s)		CaO · WO ₃ (s)

mp = 1853 K (1580 °C)

$$\Delta H_{298}^0 = -1624 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 126.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 134.56 + 20.67 \cdot 10^{-3} \cdot T - 2.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1853 \text{ K}) [4]$$

CaO₅SiTi (s)	Calcium Titanate Silicate Sphene	CaO₅SiTi (s)
CaO · TiO ₂ · SiO ₂ (s)		CaO · TiO ₂ · SiO ₂ (s)

mp = 1673 K (1400 °C)

$$\Delta H_{298}^0 = -2603.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 129.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 177.36 + 23.18 \cdot 10^{-3} \cdot T - 4.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1673 \text{ K}) [4]$$

CaO₅SiTi (s)	Calcium Titanate Silicate	CaO₅SiTi (s)
CaO · TiO ₂ · SiO ₂ (s)		CaO · TiO ₂ · SiO ₂ (s)

$$\Delta H_{1673}^0 = -2338.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1673}^0 = 445.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CaO₅SiTi (l)	Calcium Titanate Silicate	CaO₅SiTi (l)
CaO · TiO ₂ · SiO ₂ (l)		CaO · TiO ₂ · SiO ₂ (l)

$$\Delta H_{1673}^0 = -2215 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1673}^0 = 519.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 279.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1673 \text{ K}) [4]$$

CaO₆V₂ (s)	Calcium Vanadate	CaO₆V₂ (s)
CaO · V ₂ O ₅ (s)		CaO · V ₂ O ₅ (s)

$$\text{mp} = 1051 \text{ K} (778 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2329.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 179.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 135.23 + 119.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1051 \text{ K}) [4]$$

CaPb (s)	Calcium Lead	CaPb (s)
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$$\Delta H_{298}^0 = -121 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 50.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CaS (s)	Calcium Sulfide	CaS (s)
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$$\text{mp} = 2798 \text{ K} (2525 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -473.2 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 56.6 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 50.63 + 3.7 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2798 \text{ K}) [4]$$

CaS (g)	Calcium Sulfide	CaS (g)
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$$\Delta H_{298}^0 = 123.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 232.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.2 + 0.11 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3000 \text{ K}) [4]$$

CaSe (s)	Calcium Selenide	CaSe (s)
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$$\Delta H_{298}^0 = -368.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 45.61 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

CaSi (s)	Calcium Silicide	CaSi (s)
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$$\Delta H_{298}^0 = -151 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 45.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CaSi₂ (s)	Calcium Silicide	CaSi₂ (s)
$\Delta H_{298}^0 = -151 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 50.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CaSn (s)	Calcium Tin	CaSn (s)
$\Delta H_{298}^0 = -159 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 70.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CaTe (s)	Calcium Telluride	CaTe (s)
$\Delta H_{298}^0 = -272 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.49 + 10.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
CaZn (s)	Calcium Zinc	CaZn (s)
$\Delta H_{298}^0 = -73.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CaZn₂ (s)	Calcium Zinc	CaZn₂ (s)
$\Delta H_{298}^0 = -94.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 101.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 74.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ca₂ (g)	Calcium	Ca₂ (g)
$\Delta H_{298}^0 = 341.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 257.2 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
$\lg(p, K) = -17.49 \cdot 10^3 \cdot T^{-1} - 3.92 \cdot \lg(T) + 20.08$ (1100 ... 1774 K) [4]		
{Reaction: evaporation of Ca(l)}		
Ca₂Fe₂O₅ (s)	Calcium Ferrate(III)	Ca₂Fe₂O₅ (s)
2CaO · Fe ₂ O ₃ (s)		2CaO · Fe ₂ O ₃ (s)
mp = 1722 K (1449 °C)		
$\Delta H_{298}^0 = -2133.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 188.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 248.61 - 4.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1722 K) [4]		



$$\Delta H_{1722}^0 = -1793.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

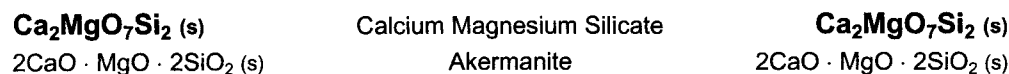
$$S_{1722}^0 = 598 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H_{1722}^0 = -1642.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1722}^0 = 685.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 310.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1722 \text{ K}) [4]$$

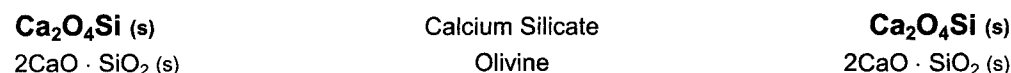


$$\text{mp} = 1727 \text{ K} (1454 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -3877.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

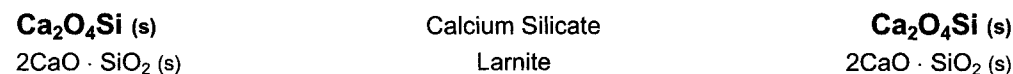
$$C_p^0 = 251.96 + 47.24 \cdot 10^{-3} \cdot T - 4.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1727 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -2315.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 120.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

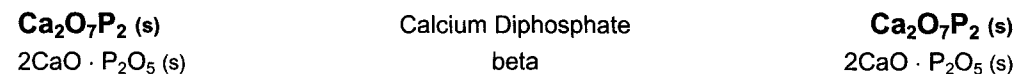
$$C_p^0 = 126.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\Delta H_{298}^0 = -2304.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 127.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 128.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\text{mp} = 1626 \text{ K} (1353 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -3338.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 189.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 221.88 + 61.76 \cdot 10^{-3} \cdot T - 4.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1413 \text{ K}) [4]$$

Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)	Calcium Diphosphate beta	Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)
$\Delta H^0_{1413} = -3044.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1413} = 578.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)	Calcium Diphosphate alpha	Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)
$\Delta H^0_{1413} = -3038.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 318.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1413 K) [4]		$S^0_{1413} = 582.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)	Calcium Diphosphate alpha	Ca₂O₇P₂ (s) 2CaO · P ₂ O ₅ (s)
$\Delta H^0_{1626} = -2970.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1626} = 627.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₂O₇P₂ (l) 2CaO · P ₂ O ₅ (l)	Calcium Diphosphate	Ca₂O₇P₂ (l) 2CaO · P ₂ O ₅ (l)
$\Delta H^0_{1626} = -2869.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 405.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1626 K) [4]		$S^0_{1626} = 689.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₂O₇V₂ (s) 2CaO · V ₂ O ₅ (s)	Calcium Divanadate(V)	Ca₂O₇V₂ (s) 2CaO · V ₂ O ₅ (s)
mp = 1288 K (1015 °C) $\Delta H^0_{298} = -3083.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 177.82 + 121 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1288 K) [4]		$S^0_{298} = 220.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ca₂Pb (s)	Calcium Lead	Ca₂Pb (s)
mp = 1467 K (1194 °C) $\Delta H^0_{298} = -209.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.43 + 22.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1385 K) [4]		$S^0_{298} = 126.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Ca₂Si (s)	Calcium Silicide	Ca₂Si (s)
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$$\Delta H_{298}^0 = -209 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 72.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ca₂Sn (s)	Calcium Tin	Ca₂Sn (s)
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$$\text{mp} = 1408 \text{ K} (1135 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -314 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 71.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ca₃MgO₈Si₂ (s)	Merwinite	Ca₃MgO₈Si₂ (s)
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$$\Delta H_{298}^0 = -4567.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 252.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 253.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ca₃N₂ (s)	Calcium Nitride	Ca₃N₂ (s)
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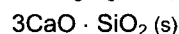
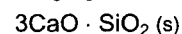
$$\text{mp} = 1468 \text{ K} (1195 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -439.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 138.78 + 15.48 \cdot 10^{-3} \cdot T - 2.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1468 \text{ K}) [4]$$

$$S_{298}^0 = 107.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Ca₃O₅Si (s)	Calcium Silicate	Ca₃O₅Si (s)
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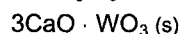
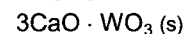


$$\Delta H_{298}^0 = -2929.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 171.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 168.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ca₃O₆W (s)	Calcium Tungstate(VI)	Ca₃O₆W (s)
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$$\text{mp} = 2520 \text{ K} (2247 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2933 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 236.52 + 29.71 \cdot 10^{-3} \cdot T - 3.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 195 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Ca₃O₇Si₂ (s) 3CaO · 2SiO ₂ (s)	Calcium Silicate Rankinite	Ca₃O₇Si₂ (s) 3CaO · 2SiO ₂ (s)
$\Delta H_{298}^0 = -3961 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 214.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 210.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ca₃O₇Ti₂ (s) 3CaO · 2TiO ₂ (s)	Calcium Titanate	Ca₃O₇Ti₂ (s) 3CaO · 2TiO ₂ (s)
mp = 2013 K (1740 °C) $\Delta H_{298}^0 = -4004 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 299.24 + 15.9 \cdot 10^{-3} \cdot T - 5.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2013 K) [4]		$S_{298}^0 = 234.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)	Calcium Phosphate beta	Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)
mp = 2080 K (1807 °C) $\Delta H_{298}^0 = -4120.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 201.84 + 163.51 \cdot 10^{-3} \cdot T - 2.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1373 K) [4]		$S_{298}^0 = 236 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)	Calcium Phosphate beta	Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)
$\Delta H_{1373}^0 = -3762.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1373}^0 = 708.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)	Calcium Phosphate alpha	Ca₃O₈P₂ (s) 3CaO · P ₂ O ₅ (s)
$\Delta H_{1373}^0 = -3747 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 330.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1373 ... 2000 K) [4]		$S_{1373}^0 = 720.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ca₃O₈V₂ (s) 3CaO · V ₂ O ₅ (s)	Calcium Vanadate(V)	Ca₃O₈V₂ (s) 3CaO · V ₂ O ₅ (s)
mp = 1653 K (1380 °C) $\Delta H_{298}^0 = -3777.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 226.82 + 101.34 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1653 K) [4]		$S_{298}^0 = 274.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Ca₃P₂ (s)	Calcium Phosphide	Ca₃P₂ (s)
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$$\Delta H_{298}^0 = -506.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 123.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 107.95 + 28.03 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Ca₃Sb₂ (s)	Calcium Antimonide	Ca₃Sb₂ (s)
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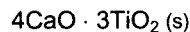
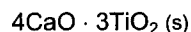
$$\text{mp} = 1623 \text{ K} (1350 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -728 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 157.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 105.02 + 29.5 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1623 \text{ K}) [4]$$

Ca₄O₁₀Ti₃ (s)	Calcium Titanate	Ca₄O₁₀Ti₃ (s)
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$$\text{mp} = 2078 \text{ K} (1805 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -5671.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 328.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 424.05 + 21.59 \cdot 10^{-3} \cdot T - 8.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2078 \text{ K}) [4]$$

Cd (s)	Cadmium	Cd (s)
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$$\text{mp} = 594 \text{ K} (321 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 51.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 22.05 + 12.55 \cdot 10^{-3} \cdot T + 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 594 \text{ K}) [4]$$

$$\lg(p, K) = -5.97 \cdot 10^3 \cdot T^{-1} - 0.91 \cdot \lg(T) + 8.74 (400 \dots 594 \text{ K}) [4]$$

{Reaction: evaporation}

Cd (s)	Cadmium	Cd (s)
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$$\Delta H_{594}^0 = 8.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{594}^0 = 70.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 29.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (594 \text{ K}) [2]$$

Cd (l)	Cadmium	Cd (l)
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$$\Delta H_{594}^0 = 14.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{594}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 29.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (594 \dots 1039 \text{ K}) [4]$$

$$\lg(p, K) = -5.69 \cdot 10^3 \cdot T^{-1} - 1.07 \cdot \lg(T) + 8.7 (594 \dots 1039 \text{ K}) [4]$$

{Reaction: evaporation}

Cd (g)	Cadmium	Cd (g)
$\Delta H_{298}^0 = 111.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 167.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CdCl₂ (s)	Cadmium(II) Chloride	CdCl₂ (s)
mp = 842 K (569 °C)		
$\Delta H_{298}^0 = -391.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 115.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 70.08 + 21.95 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 842 K) [4]		
$\lg(p, K) = -10.18 \cdot 10^3 \cdot T^{-1} - 2.79 \cdot \lg(T) + 17.69$ (600 ... 842 K) [4]		
{Reaction: evaporation as CdCl ₂ (g)}		
CdCl₂ (s)	Cadmium(II) Chloride	CdCl₂ (s)
$\Delta H_{842}^0 = -347 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{842}^0 = 199.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CdCl₂ (l)	Cadmium(II) Chloride	CdCl₂ (l)
$\Delta H_{842}^0 = -309.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{842}^0 = 243.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 111.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (842 ... 1236 K) [4]		
$\lg(p, K) = -9.34 \cdot 10^3 \cdot T^{-1} - 5.83 \cdot \lg(T) + 25.58$ (842 ... 1236 K) [4]		
{Reaction: evaporation as CdCl ₂ (g)}		
CdCl₂ (g)	Cadmium(II) Chloride	CdCl₂ (g)
$\Delta H_{298}^0 = -205.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 294.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 63.3 - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CdCl₃K (s)	Potassium Cadmium Chloride	CdCl₃K (s)
KCdCl ₃ (s)		KCdCl ₃ (s)
$\Delta H_{298}^0 = -849.9 \pm 1 \text{ kJ}\cdot\text{mol}^{-1}$ [242]		$S_{298}^0 = [197.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [243, 8]
$C_p^0 = [126.17] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

CdCl₆K₄ (s)	Potassium Cadmium Chloride	CdCl₆K₄ (s)
K ₄ CdCl ₆ (s)		K ₄ CdCl ₆ (s)

$$\Delta H_{298}^0 = -2177.5 \pm 4 \text{ kJ}\cdot\text{mol}^{-1} [242]$$

$$C_p^0 = [280.91] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

$$S_{298}^0 = [445.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [244, 8]$$

CdCl₈Fe₂ (g)	Cadmium Iron Chloride	CdCl₈Fe₂ (g)
CdFe ₂ Cl ₈ (g)		CdFe ₂ Cl ₈ (g)

$$\Delta H_{298}^0 = -997.6 \text{ kJ}\cdot\text{mol}^{-1} [169, 8]$$

$$S_{298}^0 = 694.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [169, 8]$$

CdCs₂I₄ (s)	Cesium Cadmium(II) Iodide	CdCs₂I₄ (s)
Cs ₂ CdI ₄ (s)		Cs ₂ CdI ₄ (s)

$$\Delta H_{298}^0 = -920.4 \pm 1.4 \text{ kJ}\cdot\text{mol}^{-1} [99]$$

$$C_p^0 = [185.08] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

$$S_{298}^0 = [402.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [100]$$

CdF₂ (s)	Cadmium(II) Fluoride	CdF₂ (s)
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$$\text{mp} = 1345 \text{ K} (1072 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -700.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 60.04 + 23.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1345 \text{ K}) [4]$$

$$\lg(p, K) = -17.19 \cdot 10^3 \cdot T^{-1} - 3.16 \cdot \lg(T) + 19.26 (1000 \dots 1345 \text{ K}) [4]$$

{Reaction: evaporation as CdF₂(g)}

$$\text{bp} = 2024 \text{ K} (1751 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

CdF₂ (s)	Cadmium(II) Fluoride	CdF₂ (s)
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$$\Delta H_{1345}^0 = -617.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1345}^0 = 198.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CdF₂ (l)	Cadmium(II) Fluoride	CdF₂ (l)
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$$\Delta H_{1345}^0 = -595.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 94.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1345 \dots 2024 \text{ K}) [4]$$

$$\lg(p, K) = -16.47 \cdot 10^3 \cdot T^{-1} - 3.98 \cdot \lg(T) + 21.3 (1345 \dots 2024 \text{ K}) [4]$$

{Reaction: evaporation as CdF₂(g)}

$$S_{1345}^0 = 215 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CdF₂ (g)	Cadmium(II) Fluoride	CdF₂ (g)
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$$\Delta H_{298}^0 = -386.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 262.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 61.3 - 0.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2024 \text{ K}) [4]$$

CdGa₂O₄ (s)	Cadmium Gallium Oxide	CdGa₂O₄ (s)
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$$\Delta H_{298}^0 = -1356.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 139.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 161.13 + 21.84 \cdot 10^{-3} \cdot T - 2.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

CdGa₂S₄ (s)	Cadmium Gallium Sulfide	CdGa₂S₄ (s)
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$$\Delta H_{298}^0 = -693.5 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [216.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [205]$$

$$C_p^0 = [153.26] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

CdGa₈S₁₃ (s)	Cadmium Gallium Sulfide	CdGa₈S₁₃ (s)
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$$\Delta H_{298}^0 = -2245.3 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [643.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [191]$$

$$C_p^0 = [467.03] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

CdH₂O₂ (s)	Cadmium Hydroxide	CdH₂O₂ (s)
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Cd(OH)₂ (s)

Cd(OH)₂ (s)

$$\Delta H_{298}^0 = -560.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

CdI₂ (s)	Cadmium(II) Iodide	CdI₂ (s)
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mp = 661 K (388 °C)

$$\Delta H_{298}^0 = -204.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 158.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 71.94 + 26.85 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 661 \text{ K}) [4]$$

$$\lg(p, K) = -8.01 \cdot 10^3 \cdot T^{-1} - 2.75 \cdot \lg(T) + 16.68 (500 \dots 661 \text{ K}) [4]$$

{Reaction: evaporation as CdI₂(g)}

CdI₂ (s)	Cadmium(II) Iodide	CdI₂ (s)
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$$\Delta H_{661}^0 = -173.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{661}^0 = 225.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CdI₂ (l)	Cadmium(II) Iodide	CdI₂ (l)
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$$\Delta H_{661}^0 = -156.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{661}^0 = 251 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (661 \dots 1016 \text{ K}) [4]$$

$$\lg(\rho, K) = -7.59 \cdot 10^3 \cdot T^{-1} - 4.41 \cdot \lg(T) + 20.73 (661 \dots 1016 \text{ K}) [4]$$

{Reaction: evaporation as CdI₂(g)}

CdI₂ (g)	Cadmium(II) Iodide	CdI₂ (g)
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$$\Delta H_{298}^0 = -58.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 322.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.23 - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CdIn₂S₄ (s)	Cadmium Indium Sulfide	CdIn₂S₄ (s)
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$$\Delta H_{298}^0 = -511.9 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [238] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [193]$$

$$C_p^0 = [166.65] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

CdN₂O₆ (s) Cd(NO ₃) ₂ (s)	Cadmium Nitrate alpha	CdN₂O₆ (s) Cd(NO ₃) ₂ (s)
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$$\text{mp} = 626 \text{ K} (353 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -457 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 208 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 179.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

CdN₂O₆ (s) Cd(NO ₃) ₂ (s)	Cadmium Nitrate alpha	CdN₂O₆ (s) Cd(NO ₃) ₂ (s)
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$$\Delta H_{431}^0 = -433.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{431}^0 = 274.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CdN₂O₆ (s) Cd(NO ₃) ₂ (s)	Cadmium Nitrate beta	CdN₂O₆ (s) Cd(NO ₃) ₂ (s)
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$$\Delta H_{431}^0 = -430.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{431}^0 = 281 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 213.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (431 \text{ K}) [4]$$

CdO (s)	Cadmium Oxide	CdO (s)
$\Delta H_{298}^0 = -259 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 54.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.24 + 6.36 \cdot 10^{-3} \cdot T - 0.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1755 K) [4]		
CdO (g)	Cadmium Oxide	CdO (g)
$\Delta H_{298}^0 = 81.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 233.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 33.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CdO₃Se (s)	Cadmium Selenite	CdO₃Se (s)
CdSeO ₃ (s)		CdSeO ₃ (s)
mp = 953 K (680 °C)		
$\Delta H_{298}^0 = -576.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.45 + 54.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 953 K) [4]		
CdO₃Se (s)	Cadmium Selenite	CdO₃Se (s)
CdSeO ₃ (s)		CdSeO ₃ (s)
$\Delta H_{953}^0 = -502.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{953}^0 = 264.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CdO₃Se (l)	Cadmium Selenite	CdO₃Se (l)
CdSeO ₃ (l)		CdSeO ₃ (l)
$\Delta H_{953}^0 = -444.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{953}^0 = 326.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 142.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (953 ... 1200 K) [4]		
CdO₃Si (s)	Cadmium Silicate	CdO₃Si (s)
CdO · SiO ₂ (s)		CdO · SiO ₂ (s)
mp = 1785 K (1512 °C)		
$\Delta H_{298}^0 = -1189.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 97.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 87.86 + 42.68 \cdot 10^{-3} \cdot T - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1785 K) [4]		

CdO₃Ti (s)	Cadmium Titanate alpha	CdO₃Ti (s)
CdO · TiO ₂ (s)		CdO · TiO ₂ (s)

$\Delta H_{298}^0 = -1230.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 105 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 116.11 + 9.62 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]	

CdO₃Ti (s)	Cadmium Titanate alpha	CdO₃Ti (s)
CdO · TiO ₂ (s)		CdO · TiO ₂ (s)

$\Delta H_{1100}^0 = -1136.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1100}^0 = 254.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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CdO₃Ti (s)	Cadmium Titanate beta	CdO₃Ti (s)
CdO · TiO ₂ (s)		CdO · TiO ₂ (s)

$\Delta H_{1100}^0 = -1121.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1100}^0 = 268.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 116.11 + 9.62 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1100 ... 1600 K) [4]	

CdO₄S (s)	Cadmium Sulfate	CdO₄S (s)
CdSO ₄ (s)		CdSO ₄ (s)

$\Delta H_{298}^0 = -933.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 76.74 + 77.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1326 K) [4]	

CdO₄Se (s)	Cadmium Selenate	CdO₄Se (s)
CdSeO ₄ (s)		CdSeO ₄ (s)

$\Delta H_{298}^0 = -633 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 164.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.74 + 77.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1006 K) [4]	

CdO₄W (s)	Cadmium Tungstate(VI)	CdO₄W (s)
CdO · WO ₃ (s)		CdO · WO ₃ (s)

mp = 1575 K (1302 °C)	
$\Delta H_{298}^0 = -1180.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 114.64 + 33.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1575 K) [4]	

CdS (s)	Cadmium Sulfide	CdS (s)
mp = 1748 K (1475 °C)		
$\Delta H_{298}^0 = -154.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.56 + 13.81 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1748 K) [4]		
CdS (g)	Cadmium Sulfide	CdS (g)
$\Delta H_{298}^0 = 190.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 246.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.35 + 0.04 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1748 K) [4]		
CdSb (s)	Cadmium Antimonide	CdSb (s)
mp = 729 K (456 °C)		
$\Delta H_{298}^0 = -13.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 95.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.52 + 19.41 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 729 K) [4]		
CdSb (s)	Cadmium Antimonide	CdSb (s)
$\Delta H_{729}^0 = 10.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{729}^0 = 143.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CdSb (l)	Cadmium Antimonide	CdSb (l)
$\Delta H_{729}^0 = 45.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{729}^0 = 192.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (729 K) [4]		
CdSe (s)	Cadmium Selenide	CdSe (s)
mp = 1512 K (1239 °C)		
$\Delta H_{298}^0 = -145.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 84.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.82 + 9.33 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1512 K) [4]		
CdSe (g)	Cadmium Selenide	CdSe (g)
$\Delta H_{298}^0 = 225.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 258.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.4 + 0.01 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CdTe (s)	Cadmium Telluride	CdTe (s)
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mp = 1372 K (1099 °C)

$$\Delta H_{298}^0 = -97.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 93.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 52.51 + 19 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1372 \text{ K}) [4]$$

CdTe (s)	Cadmium Telluride	CdTe (s)
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$$\Delta H_{1372}^0 = -26.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1372}^0 = 189.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CdTe (l)	Cadmium Telluride	CdTe (l)
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$$\Delta H_{1372}^0 = 17.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1372}^0 = 221.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 64.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1372 \dots 1490 \text{ K}) [4]$$

CdTe (g)	Cadmium Telluride	CdTe (g)
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$$\Delta H_{298}^0 = 242.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 266.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.41 - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cd₁₁U (s)	Cadmium Uranium	Cd₁₁U (s)
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$$\Delta H_{298}^0 = -45.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 583.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 313.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ce (s)	Cerium alpha	Ce (s)
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mp = 1071 K (798 °C)

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

bp = 3695 K (3422 °C)

$$S_{298}^0 = 69.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 22.38 + 15.06 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 998 \text{ K}) [4]$$

Ce (s)	Cerium alpha	Ce (s)
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$$\Delta H_{998}^0 = 22.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{998}^0 = 107 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (998 \text{ K}) [4]$$

Ce (s)	Cerium beta	Ce (s)
$\Delta H_{998}^0 = 25.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{998}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (998 K) [4]		
Ce (s)	Cerium beta	Ce (s)
$\Delta H_{1071}^0 = 28.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1071}^0 = 112.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1071 K) [4]		
Ce (l)	Cerium	Ce (l)
$\Delta H_{1071}^0 = 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1071}^0 = 117.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1071 K) [4]		
$\lg(p,K) = -21.52 \cdot 10^3 \cdot T^{-1} + 0.22 \cdot \lg(T) + 5.06$ (1500 ... 2500 K) [4]		
{Reaction: evaporation}		
Ce (g)	Cerium	Ce (g)
$\Delta H_{298}^0 = 424.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 191.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 24.91 + 15 \cdot 10^{-3} \cdot T - 0.67 \cdot 10^6 \cdot T^{-2} - 3.74 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
CeCl₃ (s)	Cerium(III) Chloride	CeCl₃ (s)
mp = 1080 K (807 °C)		bp = 1997 K (1724 °C)
$\Delta H_{298}^0 = -1053.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 115.4 + 11.08 \cdot 10^{-3} \cdot T - 2.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1080 K) [4]		
$\lg(p,K) = -18.14 \cdot 10^3 \cdot T^{-1} - 4.54 \cdot \lg(T) + 25.36$ (900 ... 1080 K) [4]		
{Reaction: evaporation as CeCl ₃ (g)}		
CeCl₃ (s)	Cerium(III) Chloride	CeCl₃ (s)
$\Delta H_{1080}^0 = -964 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1080}^0 = 293.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CeCl₃ (l)	Cerium(III) Chloride	CeCl₃ (l)
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$\Delta H_{1080}^0 = -918.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1080}^0 = 335.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 159.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1080 ... 1997 K) [4]	
$\lg(p,K) = -17.71 \cdot 10^3 \cdot T^{-1} - 8.67 \cdot \lg(T) + 37.48$ (1080 ... 1997 K) [4]	
{Reaction: evaporation as CeCl ₃ (g)}	

CeCl₃ (g)	Cerium(III) Chloride	CeCl₃ (g)
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$\Delta H_{298}^0 = -723 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 370.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.17 + 3.15 \cdot 10^{-3} \cdot T - 0.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CeCrO₃ (s)	Cerium Chromium Oxide	CeCrO₃ (s)
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$\Delta H_{298}^0 = -1540.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 105 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 132.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

CeF₃ (s)	Cerium(III) Fluoride	CeF₃ (s)
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mp = 1710 K (1437 °C)	bp = 2552 K (2279 °C)
$\Delta H_{298}^0 = -1688.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 115.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.79 + 43.38 \cdot 10^{-3} \cdot T + 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1710 K) [4]	
$\lg(p,K) = -24.98 \cdot 10^3 \cdot T^{-1} - 6.02 \cdot \lg(T) + 31.09$ (1200 ... 1710 K) [4]	
{Reaction: evaporation as CeF ₃ (g)}	

CeF₃ (s)	Cerium(III) Fluoride	CeF₃ (s)
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$\Delta H_{1710}^0 = -1521.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1710}^0 = 308.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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CeF₃ (l)	Cerium(III) Fluoride	CeF₃ (l)
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$\Delta H_{1710}^0 = -1443 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1710}^0 = 354.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1710 K) [4]	
$\lg(p,K) = -20.37 \cdot 10^3 \cdot T^{-1} - 5.41 \cdot \lg(T) + 26.42$ (1710 ... 2000 K) [4]	
{Reaction: evaporation as CeFe ₃ (g)}	

CeF₃ (g)	Cerium(III) Fluoride	CeF₃ (g)
$\Delta H_{298}^0 = -1248.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 337.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82 + 3.86 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CeF₄ (g)	Cerium(IV) Fluoride	CeF₄ (g)
$\Delta H_{298}^0 = -1651.1 \pm 12.4 \text{ kJ}\cdot\text{mol}^{-1}$ [112]		$S_{298}^0 = [351.7] \pm 11.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
CeH₂ (s)	Cerium(II) Hydride	CeH₂ (s)
$\Delta H_{298}^0 = -193.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 55.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.15 + 19.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		
CeI₃ (s)	Cerium(III) Iodide	CeI₃ (s)
mp = 1033 K (760 °C)		bp = 1780 K (1507 °C)
$\Delta H_{298}^0 = -649.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 227.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 94.14 + 26.41 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1033 K) [4]		
$\lg(\rho, K) = -15.24 \cdot 10^3 \cdot T^{-1} - 3.89 \cdot \lg(T) + 22.25$ (800 ... 1033 K) [4]		
{Reaction: evaporation as CeI ₃ (g)}		
CeI₃ (s)	Cerium(III) Iodide	CeI₃ (s)
$\Delta H_{1033}^0 = -568 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1033}^0 = 362.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CeI₃ (l)	Cerium(III) Iodide	CeI₃ (l)
$\Delta H_{1033}^0 = -529.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1033}^0 = 400.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 152.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1033 ... 1780 K) [4]		
$\lg(\rho, K) = -14.97 \cdot 10^3 \cdot T^{-1} - 7.85 \cdot \lg(T) + 33.93$ (1033 ... 1780 K) [4]		
{Reaction: evaporation as CeI ₃ (g)}		
CeI₃ (g)	Cerium(III) Iodide	CeI₃ (g)
$\Delta H_{298}^0 = -372 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 427.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.42 + 3 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CeMg (s)	Magnesium Cerium	CeMg (s)
MgCe (s)		MgCe (s)

mp = 984 K (711 °C)

$$\Delta H_{298}^0 = -16.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 44.56 + 25.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 984 \text{ K}) [4]$$

CeN (s)	Cerium Nitride	CeN (s)
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mp = 2830 K (2557 °C)

$$\Delta H_{298}^0 = -326.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 60.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 48.53 + 6.07 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CeO (g)	Cerium(II) Oxide	CeO (g)
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$$\Delta H_{298}^0 = -128.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 243.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 30.34 + 7.39 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [4]$$

CeO₂ (s)	Cerium(IV) Oxide	CeO₂ (s)
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mp = 2670 K (2397 °C)

$$\Delta H_{298}^0 = -1088.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 62.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 64.81 + 17.7 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2450 \text{ K}) [4]$$

CeO₃Sr (s)	Strontium Cerium Oxide	CeO₃Sr (s)
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SrO · CeO₂ (s)SrO · CeO₂ (s)

$$\Delta H_{298}^0 = -1687.1 \pm 2.7 \text{ kJ}\cdot\text{mol}^{-1} [109]$$

$$S_{298}^0 = [117.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [111]$$

$$C_p^0 = [106.99] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

CeS (s)	Cerium(II) Sulfide	CeS (s)
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mp = 2723 K (2450 °C)

$$\Delta H_{298}^0 = -456.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 42.01 + 26.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [4]$$

CeS (g)	Cerium(II) Sulfide	CeS (g)
$\Delta H_{298}^0 = 172.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 259.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.11 + 0.16 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
CeS₂ (s)	Cerium(IV) Sulfide	CeS₂ (s)
mp = 1950 K (1677 °C)		
$\Delta H_{298}^0 = -618.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.81 + 5.52 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1152 K) [4]		
CeSe (g)	Cerium(II) Selenide	CeSe (g)
$\Delta H_{298}^0 = [225.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [271] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.33] + [0.04] \cdot 10^{-3} \cdot T + [-0.15] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
CeTe (s)	Cerium(II) Telluride	CeTe (s)
mp = 2090 K (1817 °C)		
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CeTe (g)	Cerium(II) Telluride	CeTe (g)
$\Delta H_{298}^0 = 289.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 278.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ce₂Cr₂O₆ (s)	Cerium Chromate(III)	Ce₂Cr₂O₆ (s)
Ce ₂ O ₃ · Cr ₂ O ₃ (s)		Ce ₂ O ₃ · Cr ₂ O ₃ (s)
mp = 2493 K (2220 °C)		
$\Delta H_{298}^0 = -3066 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 218.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 227.19 + 50.63 \cdot 10^{-3} \cdot T - 2.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Ce₂O₂S (s)	Cerium Sulfate Oxide	Ce₂O₂S (s)
$\Delta H_{298}^0 = -1696.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.89 + 23.64 \cdot 10^{-3} \cdot T - 2.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1700 K) [4]		

Ce₂O₃ (s)	Cerium(III) Oxide	Ce₂O₃ (s)
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mp = 2450 K (2177 °C)

 $\Delta H_{298}^0 = -1799.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 148.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 130.8 + 13.77 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2450 K) [4]

Ce₂O₇Si₂ (s)	Cerium(III) Silicate	Ce₂O₇Si₂ (s)
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Ce₂Si₂O₇ (s)

beta

Ce₂Si₂O₇ (s) $\Delta H_{298}^0 = -3807.6 \pm 4.5 \text{ kJ}\cdot\text{mol}^{-1}$ [103] $S_{298}^0 = [234.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [104] $C_p^0 = [205.88] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

Ce₂O₁₂S₃ (s)	Cerium(III) Sulfate	Ce₂O₁₂S₃ (s)
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Ce₂(SO₄)₃ (s)Ce₂(SO₄)₃ (s) $\Delta H_{298}^0 = -3955.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 287.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 221.75 + 198.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1106 K) [4]

Ce₂S₃ (s)	Cerium(III) Sulfide	Ce₂S₃ (s)
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mp = 2163 K (1890 °C)

 $\Delta H_{298}^0 = -1188.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 180.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 124.93 + 12.72 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2163 K) [4]

Ce₂Se₃ (s)	Cerium(III) Selenide	Ce₂Se₃ (s)
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 $\Delta H_{298}^0 = [-933] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [217.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Ce₂Te₃ (s)	Cerium(III) Telluride	Ce₂Te₃ (s)
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 $\Delta H_{298}^0 = [-774] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [238.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Ce₃S₄ (s)	Cerium Sulfide	Ce₃S₄ (s)
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mp = 2323 K (2050 °C)

 $\Delta H_{298}^0 = -1652.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 167.82 + 39.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]

Cl (g)	Chlorine	Cl (g)
$\Delta H_{298}^0 = 121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 165.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 23.74 - 1.28 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
ClCo (g)	Cobalt(I) Chloride	ClCo (g)
CoCl (g)		CoCl (g)
$\Delta H_{298}^0 = 192.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 245.7 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.15 + 0.45 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CICs (s)	Cesium Chloride alpha	CICs (s)
CsCl (s)		CsCl (s)
mp = 918 K (645 °C)		bp = 1569 K (1296 °C)
$\Delta H_{298}^0 = -442.8 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 101.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.35 + 5.15 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 743 K) [4]		
CICs (s)	Cesium Chloride alpha	CICs (s)
CsCl (s)		CsCl (s)
$\Delta H_{743}^0 = -418.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{743}^0 = 151.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICs (s)	Cesium Chloride beta	CICs (s)
CsCl (s)		CsCl (s)
$\Delta H_{743}^0 = -414.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{743}^0 = 156.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 3.35 + 73.64 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (743 ... 918 K) [4]		
CICs (s)	Cesium Chloride beta	CICs (s)
CsCl (s)		CsCl (s)
$\Delta H_{918}^0 = -403.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{918}^0 = 169.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICs (l)	Cesium Chloride	CICs (l)
CsCl (l)		CsCl (l)
$\Delta H_{918}^0 = -382.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{918}^0 = 191.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 57.99 + 17.91 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (918 ... 1569 K) [4]		

CICs (l)	Cesium Chloride	CICs (l)
CsCl (l)		CsCl (l)

$$\Delta H_{298}^0 = -434.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 101.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CICs (g)	Cesium Chloride	CICs (g)
CsCl (g)		CsCl (g)

$$\Delta H_{298}^0 = -240.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 256.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.4 + 0.79 \cdot 10^{-3} \cdot T - 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -10.8 \cdot 10^3 \cdot T^{-1} - 3.12 \cdot \lg(T) + 17.33 (700 \dots 918 \text{ K}) [4]$$

{Reaction: evaporation of CsCl(l)}

CICsO₄ (s)	Cesium Perchlorate alpha	CICsO₄ (s)
CsClO ₄ (s)		CsClO ₄ (s)

$$\text{mp} = 850 \text{ K} (577 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -437.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 175.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 30.5 + 259.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 501 \text{ K}) [4]$$

CICsO₄ (s)	Cesium Perchlorate alpha	CICsO₄ (s)
CsClO ₄ (s)		CsClO ₄ (s)

$$\Delta H_{501}^0 = -410 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{501}^0 = 243.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CICsO₄ (s)	Cesium Perchlorate beta	CICsO₄ (s)
CsClO ₄ (s)		CsClO ₄ (s)

$$\Delta H_{501}^0 = -402.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{501}^0 = 258.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 176.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (501 \text{ K}) [4]$$

CICu (s)	Copper(I) Chloride alpha	CICu (s)
CuCl (s)		CuCl (s)

$$\text{mp} = 709 \text{ K} (436 \text{ }^\circ\text{C})$$

$$\text{bp} = 1482 \text{ K} (1209 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -136.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 51.09 + 17.66 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 683 \text{ K}) [4]$$

CICu (s) CuCl (s)	Copper(I) Chloride alpha	CICu (s) CuCl (s)
$\Delta H_{683}^0 = -114.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.57 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (683 K) [4]		$S_{683}^0 = 135.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICu (s) CuCl (s)	Copper(I) Chloride beta	CICu (s) CuCl (s)
$\Delta H_{683}^0 = -108.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (683 K) [4]		$S_{683}^0 = 143.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICu (s) CuCl (s)	Copper(I) Chloride beta	CICu (s) CuCl (s)
$\Delta H_{709}^0 = -106.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{709}^0 = 146.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICu (l) CuCl (l)	Copper(I) Chloride	CICu (l) CuCl (l)
$\Delta H_{709}^0 = -100 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 64.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (709 K) [4]		$S_{709}^0 = 155.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CICu (l) CuCl (l)	Copper(I) Chloride	CICu (l) CuCl (l)
$\Delta H_{298}^0 = -131.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 66.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 93.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CICu (g) CuCl (g)	Copper(I) Chloride	CICu (g) CuCl (g)
$\Delta H_{298}^0 = 91.1 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.36 + 0.5 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -11.77 \cdot 10^3 \cdot T^{-1} - 3.22 \cdot \lg(T) + 16.47$ (800 ... 1482 K) [4] {Reaction: evaporation of CuCl(l)}		$S_{298}^0 = 237.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CID (g) DCI (g)	Hydrochloric Acid-D	CID (g) DCI (g)
$\Delta H_{298}^0 = -93.3 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 192.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CIDO (g) DOCl (g)	Hypochlorous Acid-D	CIDO (g) DOCl (g)
$\Delta H_{298}^0 = -78.2 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 38.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CIF (g)	Chlorine Fluoride	CIF (g)
$\Delta H_{298}^0 = -50.3 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 217.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.65 + 1.51 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
CIFLi₂ (g) Li ₂ CIF (g)	Lithium Chloride Fluoride	CIFLi₂ (g) Li ₂ CIF (g)
$\Delta H_{298}^0 = -754 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 268 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CIFMg (g) MgCIF (g)	Magnesium Chloride Fluoride	CIFMg (g) MgCIF (g)
$\Delta H_{298}^0 = -569.2 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 260.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 57.14 + 0.56 \cdot 10^{-3} \cdot T - 0.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CIFO₂S (g) SO ₂ CIF (g)	Sulfuryl Chloride Fluoride	CIFO₂S (g) SO ₂ CIF (g)
$\Delta H_{298}^0 = -556.5 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 302.9 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 71.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CIFO₃ (g) ClO ₃ F (g)	Perchloryl Fluoride	CIFO₃ (g) ClO ₃ F (g)
$\Delta H_{298}^0 = -21.4 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 64.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 279 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CIF₂OP (g) POClF ₂ (g)	Phosphoryl Chloride Fluoride	CIF₂OP (g) POClF ₂ (g)
$\Delta H_{298}^0 = -970.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 68.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 301.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CIF₃ (g)	Chlorine(III) Fluoride	CIF₃ (g)
$\Delta H_{298}^0 = -158.9 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 63.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 281.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CIF₃Si (g) SiClF ₃ (g)	Chlorotrifluorosilane	CIF₃Si (g) SiClF ₃ (g)
$\Delta H_{298}^0 = -1318 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 79.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 308.7 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CIF₅ (g)	Chlorine(V) Fluoride	CIF₅ (g)
$\Delta H_{298}^0 = -238.5 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 97.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 310.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CIF₅S (g) SClF ₅ (g)	Sulfur Chloride Fluoride	CIF₅S (g) SClF ₅ (g)
$\Delta H_{298}^0 = -1038.9 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 104.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 319.9 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CIFe (g) FeCl (g)	Iron(I) Chloride	CIFe (g) FeCl (g)
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$\Delta H_{298}^0 = 251 \pm 84 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 257.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 40.39 - 0.23 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CIFeO (s) FeOCl (s)	Iron Chloride Oxide	CIFeO (s) FeOCl (s)
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$\Delta H_{298}^0 = -408.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 76.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.04 + 26.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 592 K) [4]	

CIGa (g) GaCl (g)	Gallium(I) Chloride	CIGa (g) GaCl (g)
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$\Delta H_{298}^0 = -80.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 240.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.22 + 0.66 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CIGdO (s) GdOCl (s)	Gadolinium Chloride Oxide	CIGdO (s) GdOCl (s)
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$\Delta H_{298}^0 = -983.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 95.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 66.94 + 16.4 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]	

CIGe (g) GeCl (g)	Germanium(I) Chloride	CIGe (g) GeCl (g)
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$\Delta H_{298}^0 = 73 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 245.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 43.18 - 2.23 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CIH (g) HCl (g)	Hydrogen Chloride	CIH (g) HCl (g)
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mp = 159 K (-114 °C)	bp = 188 K (-85 °C)
$\Delta H_{298}^0 = -92.3 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 186.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.53 + 4.6 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -4.85 \cdot 10^{-3} \cdot T^{-1} + 0.21 \cdot \lg(T) - 1.04$ (600 ... 2000 K) [4]	
{Reaction: decomposition $\text{HCl}(\text{g}) = 1/2\text{H}_2(\text{g}) + 1/2\text{Cl}_2(\text{g})$ }	

ClHO (g) HOCl (g)	Hypochlorous Acid	ClHO (g) HOCl (g)
$\Delta H_{298}^0 = -74.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 236.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40.67 + 7.78 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
ClH₂LiO (s) LiCl · H ₂ O (s)	Lithium Chloride Monohydrate	ClH₂LiO (s) LiCl · H ₂ O (s)
$\Delta H_{298}^0 = -713 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 103 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
ClH₃Si (g) SiH ₃ Cl (g)	Chlorosilane	ClH₃Si (g) SiH ₃ Cl (g)
mp = 155 K (-118 °C)		bp = 243 K (-30 °C)
$\Delta H_{298}^0 = -141.8 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 250.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 63.47 + 33.23 \cdot 10^{-3} \cdot T - 2.03 \cdot 10^{-6} \cdot T^{-2} - 6.6 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1685 K) [4]		
ClH₄N (s) NH ₄ Cl (s)	Ammonium Chloride alpha	ClH₄N (s) NH ₄ Cl (s)
mp = 893 K (620 °C)		$S_{298}^0 = 95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$\Delta H_{298}^0 = -314.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
$C_p^0 = 38.87 + 160.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 458 K) [4]		
$\lg(\rho, K) = -4.85 \cdot 10^3 \cdot T^{-1} - 1.87 \cdot \lg(T) + 12.89$ (298 ... 458 K) [4]		
{Reaction: decomposition NH ₄ Cl(s) = NH ₃ (g) + HCl(g)}		
ClH₄N (s) NH ₄ Cl (s)	Ammonium Chloride alpha	ClH₄N (s) NH ₄ Cl (s)
$\Delta H_{458}^0 = -298.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{458}^0 = 137.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

ClH₄N (s) NH ₄ Cl (s)	Ammonium Chloride beta	ClH₄N (s) NH ₄ Cl (s)
$\Delta H_{458}^0 = -294.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{458}^0 = 145.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.64 + 111.71 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (458 ... 611 K) [4]		
$\lg(p,K) = -4.61 \cdot 10^3 \cdot T^{-1} - 1.21 \cdot \lg(T) + 10.62$ (458 ... 611 K) [4]		
{Reaction: decomposition NH ₄ Cl(s) = NH ₃ (g) + HCl(g)}		
ClH₄NO₄ (s) NH ₄ ClO ₄ (s)	Ammonium Perchlorate	ClH₄NO₄ (s) NH ₄ ClO ₄ (s)
$\Delta H_{298}^0 = -295.8 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 184.2 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 67.77 + 202.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 513 K) [4]		
ClHg (g) HgCl (g)	Mercury(I) Chloride	ClHg (g) HgCl (g)
$\Delta H_{298}^0 = 81.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 260.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.8 + 1.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
ClI (s) ICl (s)	Iodine(I) Chloride	ClI (s) ICl (s)
$\Delta H_{298}^0 = -35.4 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 97.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
ClI (l) ICl (l)	Iodine(I) Chloride	ClI (l) ICl (l)
$\Delta H_{298}^0 = -23.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 136.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
ClI (g) ICl (g)	Iodine(I) Chloride	ClI (g) ICl (g)
$\Delta H_{298}^0 = 17.5 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 247.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

ClIn (s) InCl (s)	Indium(I) Chloride alpha	ClIn (s) InCl (s)
$\Delta H_{298}^0 = -186 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.15 + 41.84 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 393 K) [4]		
ClIn (s) InCl (s)	Indium(I) Chloride alpha	ClIn (s) InCl (s)
$\Delta H_{393}^0 = -181.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{393}^0 = 108.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 51.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (393 K) [4]		
ClIn (s) InCl (s)	Indium(I) Chloride beta	ClIn (s) InCl (s)
$\Delta H_{393}^0 = -174.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{393}^0 = 126.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (393 K) [4]		
$\lg(p,K) = -5.79 \cdot 10^3 \cdot T^{-1} - 2.59 \cdot \lg(T) + 14.75$ (393 ... 498 K) [4]		
{Reaction: evaporation as InCl(g)}		
ClIn (s) InCl (s)	Indium(I) Chloride beta	ClIn (s) InCl (s)
$\Delta H_{498}^0 = -168.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{498}^0 = 140.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ClIn (l) InCl (l)	Indium(I) Chloride	ClIn (l) InCl (l)
$\Delta H_{498}^0 = -159 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{498}^0 = 158.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (498 K) [4]		
$\lg(p,K) = -5.4 \cdot 10^3 \cdot T^{-1} - 3.02 \cdot \lg(T) + 15.12$ (498 ... 863 K) [4]		
{Reaction: evaporation as InCl(g)}		
ClIn (g) InCl (g)	Indium(I) Chloride	ClIn (g) InCl (g)
$\Delta H_{298}^0 = -75.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 248.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.27 + 0.7 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CIK (s) KCl (s)	Potassium Chloride	CIK (s) KCl (s)
mp = 1045 K (772 °C)		bp = 1714 K (1441 °C)
$\Delta H_{298}^0 = -436.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 82.6 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 39.94 + 25.47 \cdot 10^{-3} \cdot T + 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1045 K) [4]		
CIK (s) KCl (s)	Potassium Chloride	CIK (s) KCl (s)
$\Delta H_{1045}^0 = -393 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1045}^0 = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CIK (l) KCl (l)	Potassium Chloride	CIK (l) KCl (l)
$\Delta H_{1045}^0 = -366.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1045}^0 = 178.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1045 K) [4]		
CIK (l) KCl (l)	Potassium Chloride	CIK (l) KCl (l)
$\Delta H_{298}^0 = -421.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 86.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CIK (g) KCl (g)	Potassium Chloride	CIK (g) KCl (g)
$\Delta H_{298}^0 = -214.7 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 239.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.15 + 0.96 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -12.15 \cdot 10^3 \cdot T^{-1} - 2.99 \cdot \lg(T) + 17.25$ (700 ... 1045 K) [4]		
{Reaction: evaporation of KCl(s)}		
CIK₃ (s) KClO ₃ (s)	Potassium Chlorate	CIK₃ (s) KClO ₃ (s)
mp = 630 K (357 °C)		
$\Delta H_{298}^0 = -389.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 143.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 97.49 + 60.67 \cdot 10^{-3} \cdot T - 1.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 630 K) [4]		

ClKO₄ (s) KClO ₄ (s)	Potassium Perchlorate alpha	ClKO₄ (s) KClO ₄ (s)
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mp = 798 K (525 °C)

$$\Delta H_{298}^0 = -430.1 \pm 4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 151 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 138.49 + 62.76 \cdot 10^{-3} \cdot T - 3.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 573 \text{ K}) [4]$$

ClKO₄ (s) KClO ₄ (s)	Potassium Perchlorate alpha	ClKO₄ (s) KClO ₄ (s)
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$$\Delta H_{573}^0 = -390.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{573}^0 = 242.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

ClKO₄ (s) KClO ₄ (s)	Potassium Perchlorate beta	ClKO₄ (s) KClO ₄ (s)
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$$\Delta H_{573}^0 = -377.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{573}^0 = 266.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 134.91 + 65.77 \cdot 10^{-3} \cdot T - 3.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (573 \dots 798 \text{ K}) [4]$$

ClLaO (s) LaOCl (s)	Lanthanum Chloride Oxide	ClLaO (s) LaOCl (s)
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$$\Delta H_{298}^0 = -1018.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 82.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 70.5 + 12.26 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

ClLi (s) LiCl (s)	Lithium Chloride	ClLi (s) LiCl (s)
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mp = 883 K (610 °C)

bp = 1633 K (1360 °C)

$$\Delta H_{298}^0 = -408.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 59.3 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 42.15 + 22.76 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 883 \text{ K}) [4]$$

ClLi (s) LiCl (s)	Lithium Chloride	ClLi (s) LiCl (s)
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$$\Delta H_{883}^0 = -376.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{883}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CILi (l) LiCl (l)	Lithium Chloride	CILi (l) LiCl (l)
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$$\Delta H_{883}^0 = -356.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{883}^0 = 140.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 62.59 - 9.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (883 \dots 1633 \text{ K}) [4]$$

CILi (l) LiCl (l)	Lithium Chloride	CILi (l) LiCl (l)
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$$\Delta H_{298}^0 = -390.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 78.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 48.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CILi (g) LiCl (g)	Lithium Chloride	CILi (g) LiCl (g)
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$$\Delta H_{298}^0 = -195.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 212.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.56 + 1.07 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.62 \cdot 10^3 \cdot T^{-1} - 2.79 \cdot \lg(T) + 16.42 (700 \dots 883 \text{ K}) [4]$$

{Reaction: evaporation of LiCl(s)}

CILiO (g) LiOCl (g)	Lithium Chloride Oxide	CILiO (g) LiOCl (g)
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$$\Delta H_{298}^0 = -14.2 \pm 84 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 256.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 42.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CILiO₄ (s) LiClO ₄ (s)	Lithium Perchlorate	CILiO₄ (s) LiClO ₄ (s)
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mp = 509 K (236 °C)

$$\Delta H_{298}^0 = -380.7 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 126 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 137.24 + 44.64 \cdot 10^{-3} \cdot T - 4.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 509 \text{ K}) [4]$$

CILiO₄ (s) LiClO ₄ (s)	Lithium Perchlorate	CILiO₄ (s) LiClO ₄ (s)
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$$\Delta H_{509}^0 = -353.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{509}^0 = 193.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CILiO₄ (l)	Lithium Perchlorate	CILiO₄ (l)
LiClO ₄ (l)		LiClO ₄ (l)

$$\Delta H_{509}^0 = -324.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{509}^0 = 251.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 161.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (509 \text{ K}) [4]$$

CILiO₄ (l)	Lithium Perchlorate	CILiO₄ (l)
LiClO ₄ (l)		LiClO ₄ (l)

$$\Delta H_{298}^0 = -358.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 164.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 161.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CIMg (g)	Magnesium(I) Chloride	CIMg (g)
MgCl (g)		MgCl (g)

$$\Delta H_{298}^0 = -43.5 \pm 42 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 233.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.1 - 0.53 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CIMo (g)	Molybdenum(I) Chloride	CIMo (g)
MoCl (g)		MoCl (g)

$$\Delta H_{298}^0 = 407.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 258.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 35.04 + 1.98 \cdot 10^{-3} \cdot T + 0.05 \cdot 10^6 \cdot T^{-2} + 0.05 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CINO (g)	Nitrosyl Chloride	CINO (g)
NOCl (g)		NOCl (g)

$$\text{mp} = 209 \text{ K} (-64 \text{ }^\circ\text{C})$$

$$\text{bp} = 268 \text{ K} (-5 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 51.7 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 261.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 48.83 + 6.81 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CINO₂ (g)	Nitryl Chloride	CINO₂ (g)
NO ₂ Cl (g)		NO ₂ Cl (g)

$$\text{mp} = 242 \text{ K} (-31 \text{ }^\circ\text{C})$$

$$\text{bp} = 278 \text{ K} (5 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 12.1 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 272.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 69.69 + 6.76 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CINa (s) NaCl (s)	Sodium Chloride	CINa (s) NaCl (s)
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mp = 1074 K (801 °C)

bp = 1757 K (1484 °C)

 $\Delta H^0_{298} = -411.1 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S^0_{298} = 72.1 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 42 + 22.39 \cdot 10^{-3} \cdot T + 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1074 K) [4]

CINa (s) NaCl (s)	Sodium Chloride	CINa (s) NaCl (s)
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 $\Delta H^0_{1074} = -362.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1074} = 151.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CINa (l) NaCl (l)	Sodium Chloride	CINa (l) NaCl (l)
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 $\Delta H^0_{1074} = -334.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1074} = 178.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 68.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1074 K) [4]

CINa (l) NaCl (l)	Sodium Chloride	CINa (l) NaCl (l)
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 $\Delta H^0_{298} = -385.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S^0_{298} = 95.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

CINa (g) NaCl (g)	Sodium Chloride	CINa (g) NaCl (g)
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 $\Delta H^0_{298} = -181.4 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S^0_{298} = 229.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 37.28 + 0.78 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -11.97 \cdot 10^3 \cdot T^{-1} - 3.26 \cdot \lg(T) + 17.87$ (700 ... 1074 K) [4]

{Reaction: evaporation of NaCl(s)}

CINaO₃ (s) NaClO ₃ (s)	Sodium Chlorate	CINaO₃ (s) NaClO ₃ (s)
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mp = 528 K (255 °C)

 $\Delta H^0_{298} = -357.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{298} = 126.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 54.69 + 154.81 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 528 K) [4]

CINaO₃ (s) NaClO ₃ (s)	Sodium Chlorate	CINaO₃ (s) NaClO ₃ (s)
$\Delta H_{528}^0 = -330.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{528}^0 = 193.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CINaO₃ (l) NaClO ₃ (l)	Sodium Chlorate	CINaO₃ (l) NaClO ₃ (l)
$\Delta H_{528}^0 = -307.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 133.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (528 K) [4]		$S_{528}^0 = 236 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CINaO₄ (s) NaClO ₄ (s)	Sodium Perchlorate alpha	CINaO₄ (s) NaClO ₄ (s)
mp = 742 K (469 °C) $\Delta H_{298}^0 = -377.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 139 + 53.56 \cdot 10^{-3} \cdot T - 3.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 581 K) [4]		$S_{298}^0 = 143.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CINaO₄ (s) NaClO ₄ (s)	Sodium Perchlorate alpha	CINaO₄ (s) NaClO ₄ (s)
$\Delta H_{581}^0 = -338.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{581}^0 = 235.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CINaO₄ (s) NaClO ₄ (s)	Sodium Perchlorate beta	CINaO₄ (s) NaClO ₄ (s)
$\Delta H_{581}^0 = -337.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 139 + 53.56 \cdot 10^{-3} \cdot T - 3.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (581 ... 742 K) [4]		$S_{581}^0 = 237.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CINbO₂ (s) NbO ₂ Cl (s)	Niobium Chloride Oxide	CINbO₂ (s) NbO ₂ Cl (s)
$\Delta H_{298}^0 = -983.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 93.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

CINdO (s) NdOCl (s)	Neodymium Chloride Oxide	CINdO (s) NdOCl (s)
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$\Delta H_{298}^0 = -1005.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 79.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.62 + 19.12 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		

CINi (g) NiCl (g)	Nickel(I) Chloride	CINi (g) NiCl (g)
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$\Delta H_{298}^0 = 182 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251.9 \pm 13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 39.3 + 0.84 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

CIO (g)	Chlorine Oxide	CIO (g)
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$\Delta H_{298}^0 = 101.2 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225.1 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CIOPu (s) PuOCl (s)	Plutonium Chloride Oxide	CIOPu (s) PuOCl (s)
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$\Delta H_{298}^0 = -929.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.53 + 23.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		

CIOsb (s) SbOCl (s)	Antimony Chloride Oxide	CIOsb (s) SbOCl (s)
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$\Delta H_{298}^0 = -374.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 107.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

CIOsm (s) SmOCl (s)	Samarium Chloride Oxide	CIOsm (s) SmOCl (s)
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$\Delta H_{298}^0 = -1000.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.71 + 22.38 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		

ClOTi (g) TiOCl (g)	Titanium Chloride Oxide	ClOTi (g) TiOCl (g)
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$$\Delta H_{298}^0 = -244.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 263.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 51.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ClOU (s) UOCl (s)	Uranium Chloride Oxide	ClOU (s) UOCl (s)
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$$\Delta H_{298}^0 = -833.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 75.81 + 14.35 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 900 \text{ K}) [4]$$

ClOV (s) VOCl (s)	Vanadium Chloride Oxide	ClOV (s) VOCl (s)
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$$\Delta H_{298}^0 = -606.6 \text{ kJ}\cdot\text{mol}^{-1} [62]$$

$$S_{298}^0 = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [62]$$

$$C_p^0 = 55.32 + 34.33 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [62]$$

ClOV (g) VOCl (g)	Vanadium Chloride Oxide	ClOV (g) VOCl (g)
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$$\Delta H_{298}^0 = -319.2 \text{ kJ}\cdot\text{mol}^{-1} [62]$$

$$S_{298}^0 = 288.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [62]$$

$$C_p^0 = 60.76 + 1.05 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [62]$$

ClO₂ (g) OCIO (g)	Chlorine Oxide	ClO₂ (g) OCIO (g)
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$$\Delta H_{298}^0 = 97 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 256.8 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 41.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ClO₂ (g) ClOO (g)	Chlorine Oxide	ClO₂ (g) ClOO (g)
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$$\Delta H_{298}^0 = 98 \pm 4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 269.3 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 46.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ClO₂Ta (s)	Tantalum Chloride Oxide	ClO₂Ta (s)
TaO ₂ Cl (s)		TaO ₂ Cl (s)

$$\Delta H_{298}^0 = -1004.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 94.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 96.23 + 16.32 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 811 \text{ K}) [4]$$

ClO₂U (s)	Uranium Chloride Oxide	ClO₂U (s)
UO ₂ Cl (s)		UO ₂ Cl (s)

$$\Delta H_{298}^0 = -1169.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 112.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 90.12 + 22.26 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

ClO₃ (g)	Chlorine Oxide	ClO₃ (g)
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$$\Delta H_{298}^0 = 194 \pm 12 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 270.8 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 53.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ClP (g)	Phosphorus(I) Chloride	ClP (g)
PCl (g)		PCl (g)

$$\Delta H_{298}^0 = 129 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 237.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 34.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ClPb (g)	Lead(I) Chloride	ClPb (g)
PbCl (g)		PbCl (g)

$$\Delta H_{298}^0 = 15.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 261.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.11 + 0.84 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

ClRb (s)	Rubidium Chloride	ClRb (s)
RbCl (s)		RbCl (s)

mp = 996 K (723 °C)

$$\Delta H_{298}^0 = -435.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 95.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 48.24 + 10.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 996 \text{ K}) [4]$$

$$\lg(p, K) = -10.92 \cdot 10^3 \cdot T^{-1} - 2.32 \cdot \lg(T) + 14.53 (700 \dots 996 \text{ K}) [4]$$

{Reaction: evaporation as RbCl(g)}

CIRb (s) RbCl (s)	Rubidium Chloride	CIRb (s) RbCl (s)
$\Delta H_{996}^0 = -396.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{996}^0 = 160.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CIRb (l) RbCl (l)	Rubidium Chloride	CIRb (l) RbCl (l)
$\Delta H_{996}^0 = -373 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{996}^0 = 184.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 64.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (996 K) [4]		
$\lg(p, K) = -10 \cdot 10^3 \cdot T^{-1} - 3.08 \cdot \lg(T) + 15.89$ (996 ... 1679 K) [4]		
{Reaction: evaporation as RbCl(g)}		
CIRb (g) RbCl (g)	Rubidium Chloride	CIRb (g) RbCl (g)
$\Delta H_{298}^0 = -233.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 241.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.15 + 0.96 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CIS (g) SCl (g)	Sulfur(I) Chloride	CIS (g) SCl (g)
$\Delta H_{298}^0 = 156.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 237.3 \pm 2.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.07 + 1 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CIS₂ (g) S ₂ Cl (g)	Sulfur Chloride	CIS₂ (g) S ₂ Cl (g)
$\Delta H_{298}^0 = 78.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 291.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CISb (g) SbCl (g)	Antimony(I) Chloride	CISb (g) SbCl (g)
$\Delta H_{298}^0 = -10.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 247 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

CISc (g) ScCl (g)	Scandium(I) Chloride	CISc (g) ScCl (g)
$\Delta H_{298}^0 = 115.9 \text{ kJ}\cdot\text{mol}^{-1}$ [93]		$S_{298}^0 = 234.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [93]
CISi (g) SiCl (g)	Silicon(I) Chloride	CISi (g) SiCl (g)
$\Delta H_{298}^0 = 198.3 \pm 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 35.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 237.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CISr (g) SrCl (g)	Strontium(I) Chloride	CISr (g) SrCl (g)
$\Delta H_{298}^0 = -123.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.34 + 0.57 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 252.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CITa (g) TaCl (g)	Tantalum(I) Chloride	CITa (g) TaCl (g)
$\Delta H_{298}^0 = 359.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 36.98 + 0.64 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 384.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CITi (g) TiCl (g)	Titanium(I) Chloride	CITi (g) TiCl (g)
$\Delta H_{298}^0 = 154.4 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 43.94 + 0.25 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1939 K) [4]		$S_{298}^0 = 249.2 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CITl (s) TlCl (s)	Thallium(I) Chloride	CITl (s) TlCl (s)
mp = 704 K (431 °C) $\Delta H_{298}^0 = -204.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 45.19 + 19.26 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 704 K) [4]		bp = 1083 K (810 °C) $S_{298}^0 = 111.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CITl (s) TlCl (s)	Thallium(I) Chloride	CITl (s) TlCl (s)
$\Delta H_{704}^0 = -181.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{704}^0 = 157.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CITl (l)	Thallium(I) Chloride	CITl (l)
TlCl (l)		TlCl (l)

$$\Delta H_{704}^0 = -166.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{704}^0 = 180 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 74.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (704 \text{ K}) [4]$$

CITl (g)	Thallium(I) Chloride	CITl (g)
TlCl (g)		TlCl (g)

$$\Delta H_{298}^0 = -67.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 256.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 37.4 - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -7.25 \cdot 10^3 \cdot T^{-1} - 2.47 \cdot \lg(T) + 14.58 (500 \dots 704 \text{ K}) [4]$$

{Reaction: evaporation of TlCl(s)}

CIW (g)	Tungsten(I) Chloride	CIW (g)
WCl (g)		WCl (g)

$$\Delta H_{298}^0 = 553.5 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 261.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.24 + 1.59 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CIY (g)	Yttrium(I) Chloride	CIY (g)
YCl (g)		YCl (g)

$$\Delta H_{298}^0 = 200 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 244.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.38 + 0.46 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CIZr (s)	Zirconium(I) Chloride	CIZr (s)
ZrCl (s)		ZrCl (s)

$$\Delta H_{298}^0 = -303.2 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1} [90]$$

$$S_{298}^0 = 60.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [90]$$

$$C_p^0 = 47.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [90]$$

CIZr (g)	Zirconium(I) Chloride	CIZr (g)
ZrCl (g)		ZrCl (g)

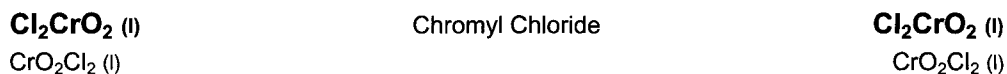
$$\Delta H_{298}^0 = 205.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 254.2 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 34.45 + 5.05 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂ (g)	Chlorine	Cl₂ (g)
mp = 172 K (-101 °C)		bp = 238 K (-35 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 223.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.61 + 1.08 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Co (s)	Cobalt(II) Chloride	Cl₂Co (s)
CoCl ₂ (s)		CoCl ₂ (s)
mp = 994 K (721 °C)		bp = 1354 K (1081 °C)
$\Delta H_{298}^0 = -312.5 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 109.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.58 + 7.41 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 994 K) [4]		
Cl₂Co (s)	Cobalt(II) Chloride	Cl₂Co (s)
CoCl ₂ (s)		CoCl ₂ (s)
$\Delta H_{994}^0 = -253.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{994}^0 = 210.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂Co (l)	Cobalt(II) Chloride	Cl₂Co (l)
CoCl ₂ (l)		CoCl ₂ (l)
$\Delta H_{994}^0 = -209.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{994}^0 = 254.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (994 K) [4]		
Cl₂Co (l)	Cobalt(II) Chloride	Cl₂Co (l)
CoCl ₂ (l)		CoCl ₂ (l)
$\Delta H_{298}^0 = -271.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 149 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₂Co (g)	Cobalt(II) Chloride	Cl₂Co (g)
CoCl ₂ (g)		CoCl ₂ (g)
$\Delta H_{298}^0 = -93.7 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 298.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 60.73 + 2.82 \cdot 10^{-3} \cdot T - 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -11.87 \cdot 10^3 \cdot T^{-1} - 2.92 \cdot \lg(T) + 18.51$ (700 ... 994 K) [4]		
{Reaction: evaporation of CoCl ₂ (s)}		

Cl₂Cr (s) CrCl ₂ (s)	Chromium(II) Chloride	Cl₂Cr (s) CrCl ₂ (s)
mp = 1088 K (815 °C)		bp = 1576 K (1303 °C)
$\Delta H_{298}^0 = -395.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 115.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.36 + 13 \cdot 10^{-3} \cdot T - 0.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1088 K) [4]		
$\lg(p,K) = -14.01 \cdot 10^3 \cdot T^{-1} - 2.53 \cdot \lg(T) + 17.73$ (800 ... 1088 K) [4]		
{Reaction: evaporation as CrCl ₂ (g)}		
Cl₂Cr (s) CrCl ₂ (s)	Chromium(II) Chloride	Cl₂Cr (s) CrCl ₂ (s)
$\Delta H_{1088}^0 = -333.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1088}^0 = 215.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂Cr (l) CrCl ₂ (l)	Chromium(II) Chloride	Cl₂Cr (l) CrCl ₂ (l)
$\Delta H_{1088}^0 = -286.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1088}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1088 K) [4]		
$\lg(p,K) = -12.5 \cdot 10^3 \cdot T^{-1} - 4.54 \cdot \lg(T) + 22.45$ (1088 ... 1576 K) [4]		
{Reaction: evaporation of CrCl ₂ (l)}		
Cl₂Cr (g) CrCl ₂ (g)	Chromium(II) Chloride	Cl₂Cr (g) CrCl ₂ (g)
$\Delta H_{298}^0 = -136.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 308 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.12 + 1.36 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂CrO (g) CrOCl ₂ (g)	Chromium Chloride Oxide	Cl₂CrO (g) CrOCl ₂ (g)
$\Delta H_{298}^0 = -366.8 \text{ kJ}\cdot\text{mol}^{-1}$ [65]		$S_{298}^0 = 310.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [65]
$C_p^0 = 81.46 + 0.86 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [65]		



$$\Delta H_{298}^0 = -579.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

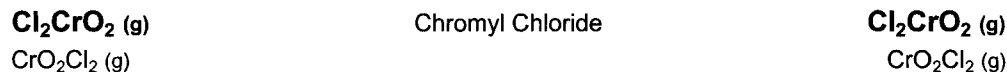
$$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

$$\lg(p, K) = -3.24 \cdot 10^3 \cdot T^{-1} - 8.52 \cdot \lg(T) + 30.37 \text{ (298 ... 390 K) [4]}$$

{Reaction: evaporation}

$$\text{bp} = 390 \text{ K (117 }^\circ\text{C)}$$

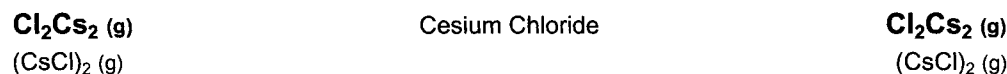
$$S_{298}^0 = 221.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$



$$\Delta H_{298}^0 = -538.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 105.31 + 1.33 \cdot 10^{-3} \cdot T - 2.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$S_{298}^0 = 329 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$



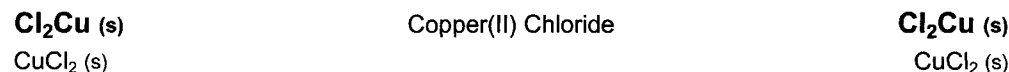
$$\Delta H_{298}^0 = -659.8 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$C_p^0 = 83.12 + 0.02 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -12.27 \cdot 10^3 \cdot T^{-1} - 5.41 \cdot \lg(T) + 25.6 \text{ (700 ... 918 K) [4]}$$

{Reaction: evaporation of CsCl(s)}

$$S_{298}^0 = 383.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$



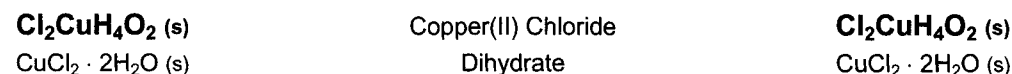
$$\Delta H_{298}^0 = -218 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 78.87 + 2.93 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 862 K) [4]}$$

$$\lg(p, K) = -8.42 \cdot 10^3 \cdot T^{-1} + 0.12 \cdot \lg(T) + 9.04 \text{ (500 ... 683 K) [4]}$$

{Reaction: decomposition $2\text{CuCl}_2(\text{s}) = 2\text{CuCl}(\text{s}) + \text{Cl}_2(\text{g})$ }

$$S_{298}^0 = 108 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$



$$\Delta H_{298}^0 = -821 \text{ kJ}\cdot\text{mol}^{-1} \text{ [7]}$$

$$S_{298}^0 = 167 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [7]}$$

Cl₂FOP (g) POCl ₂ F (g)	Phosphoryl Chloride Fluoride	Cl₂FOP (g) POCl ₂ F (g)
$\Delta H_{298}^0 = -765.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 320.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 79.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₂Fe (s) FeCl ₂ (s)	Iron(II) Chloride	Cl₂Fe (s) FeCl ₂ (s)
mp = 950 K (677 °C)		bp = 1293 K (1020 °C)
$\Delta H_{298}^0 = -341.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 117.9 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.26 + 9.95 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 950 K) [4]		
Cl₂Fe (s) FeCl ₂ (s)	Iron(II) Chloride	Cl₂Fe (s) FeCl ₂ (s)
$\Delta H_{950}^0 = -287.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{950}^0 = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂Fe (l) FeCl ₂ (l)	Iron(II) Chloride	Cl₂Fe (l) FeCl ₂ (l)
$\Delta H_{950}^0 = -244.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{950}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (950 K) [4]		
Cl₂Fe (l) FeCl ₂ (l)	Iron(II) Chloride	Cl₂Fe (l) FeCl ₂ (l)
$\Delta H_{298}^0 = -311.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 139.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₂Fe (g) FeCl ₂ (g)	Iron(II) Chloride	Cl₂Fe (g) FeCl ₂ (g)
$\Delta H_{298}^0 = -141 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 299.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 59.95 + 2.92 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -10.9 \cdot 10^3 \cdot T^{-1} - 2.83 \cdot \lg(T) + 17.82$ (600 ... 950 K) [4]		
{Reaction: evaporation of FeCl ₂ (s)}		

Cl₂Ga (g)	Gallium(II) Chloride	Cl₂Ga (g)
GaCl ₂ (g)		GaCl ₂ (g)

mp = 444 K (171 °C)

 $\Delta H_{298}^0 = -130 \pm 29 \text{ kJ}\cdot\text{mol}^{-1}$ [263] $S_{298}^0 = 301 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 57.59 + 0.44 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₂Ga₂ (g)	Gallium(I) Chloride	Cl₂Ga₂ (g)
Ga ₂ Cl ₂ (g)		Ga ₂ Cl ₂ (g)

 $\Delta H_{298}^0 = -220 \pm 19 \text{ kJ}\cdot\text{mol}^{-1}$ [262] $S_{298}^0 = 353.6 \pm 7.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [263] $C_p^0 = 79.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [263]

Cl₂Ge (g)	Germanium(II) Chloride	Cl₂Ge (g)
GeCl ₂ (g)		GeCl ₂ (g)

 $\Delta H_{298}^0 = -171 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 295.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 57.85 + 0.22 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₂H₂Si (g)	Dichlorosilane	Cl₂H₂Si (g)
SiH ₂ Cl ₂ (g)		SiH ₂ Cl ₂ (g)

mp = 151 K (-122 °C)

bp = 281 K (8 °C)

 $\Delta H_{298}^0 = -320.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 286.7 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 77.21 + 23 \cdot 10^{-3} \cdot T - 1.98 \cdot 10^6 \cdot T^{-2} - 4.57 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1685 K) [4]

Cl₂Hf (g)	Hafnium(II) Chloride	Cl₂Hf (g)
HfCl ₂ (g)		HfCl ₂ (g)

 $\Delta H_{298}^0 = -318 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 295.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 57.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Cl₂Hg (s) HgCl ₂ (s)	Mercury(II) Chloride	Cl₂Hg (s) HgCl ₂ (s)
mp = 550 K (277 °C)		bp = 756 K (483 °C)
$\Delta H_{298}^0 = -227.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 144.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70 + 20.29 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 550 K) [4]		
$\lg(p, K) = -4.67 \cdot 10^3 \cdot T^{-1} - 2.13 \cdot \lg(T) + 14.06$ (298 ... 550 K) [4]		
{Reaction: evaporation as HgCl ₂ (g)}		

Cl₂Hg (s) HgCl ₂ (s)	Mercury(II) Chloride	Cl₂Hg (s) HgCl ₂ (s)
$\Delta H_{550}^0 = -207.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{550}^0 = 191.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₂Hg (l) HgCl ₂ (l)	Mercury(II) Chloride	Cl₂Hg (l) HgCl ₂ (l)
$\Delta H_{550}^0 = -188.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{550}^0 = 227 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (550 K) [4]		

Cl₂Hg (l) HgCl ₂ (l)	Mercury(II) Chloride	Cl₂Hg (l) HgCl ₂ (l)
$\Delta H_{298}^0 = -213.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 164.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Cl₂Hg (g) HgCl ₂ (g)	Mercury(II) Chloride	Cl₂Hg (g) HgCl ₂ (g)
$\Delta H_{298}^0 = -146.3 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 294.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.13 + 0.13 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Cl₂Hg₂ (s) Hg ₂ Cl ₂ (s)	Mercury(I) Chloride	Cl₂Hg₂ (s) Hg ₂ Cl ₂ (s)
$\Delta H_{298}^0 = -267.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 98.74 + 23.01 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 655 K) [4]		

Cl₂In (s) InCl ₂ (s)	Indium Chloride	Cl₂In (s) InCl ₂ (s)
mp = 509 K (236 °C)		
$\Delta H_{298}^0 = -362.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 122.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 58.58 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 509 K) [4]		
Cl₂In (s) InCl ₂ (s)	Indium Chloride	Cl₂In (s) InCl ₂ (s)
$\Delta H_{509}^0 = -346.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{509}^0 = 164.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂In (l) InCl ₂ (l)	Indium Chloride	Cl₂In (l) InCl ₂ (l)
$\Delta H_{509}^0 = -331.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{509}^0 = 193 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 97.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (509 K) [4]		
Cl₂In₂ (g) In ₂ Cl ₂ (g)	Indium(I) Chloride	Cl₂In₂ (g) In ₂ Cl ₂ (g)
$\Delta H_{298}^0 = -232 \pm 8.8 \text{ kJ}\cdot\text{mol}^{-1}$ [258]		$S_{298}^0 = [362.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [261]
Cl₂K₂ (g) (KCl) ₂ (g)	Potassium Chloride	Cl₂K₂ (g) (KCl) ₂ (g)
$\Delta H_{298}^0 = -617.6 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 352.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.12 + 0.01 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -14.59 \cdot 10^3 \cdot T^{-1} - 5.4 \cdot \lg(T) + 26.31$ (800 ... 1045 K) [4]		
{Reaction: evaporation of KCl(s)}		
Cl₂Li₂ (g) (LiCl) ₂ (g)	Lithium Chloride	Cl₂Li₂ (g) (LiCl) ₂ (g)
$\Delta H_{298}^0 = -593.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 288.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.27 + 0.54 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -12.52 \cdot 10^3 \cdot T^{-1} - 4.68 \cdot \lg(T) + 23.03$ (700 ... 883 K) [4]		
{Reaction: evaporation of LiCl(s)}		

Cl₂Mg (s) MgCl ₂ (s)	Magnesium(II) Chloride	Cl₂Mg (s) MgCl ₂ (s)
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mp = 980 K (707 °C)

$$\Delta H_{298}^0 = -644.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 76.4 + 9.25 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 980 \text{ K}) [4]$$

bp = 1634 K (1361 °C)

$$S_{298}^0 = 89.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂Mg (s) MgCl ₂ (s)	Magnesium(II) Chloride	Cl₂Mg (s) MgCl ₂ (s)
--	------------------------	--

$$\Delta H_{980}^0 = -589.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{980}^0 = 183.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂Mg (l) MgCl ₂ (l)	Magnesium(II) Chloride	Cl₂Mg (l) MgCl ₂ (l)
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$$\Delta H_{980}^0 = -549.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 92.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (980 \text{ K}) [4]$$

$$S_{980}^0 = 223.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂Mg (g) MgCl ₂ (g)	Magnesium(II) Chloride	Cl₂Mg (g) MgCl ₂ (g)
--	------------------------	--

$$\Delta H_{298}^0 = -392.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 277 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 61.58 + 0.48 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -13.61 \cdot 10^3 \cdot T^{-1} - 2.68 \cdot \lg(T) + 17.82 (800 \dots 980 \text{ K}) [4]$$

{Reaction: evaporation of MgCl₂(s)}

Cl₂Mn (s) MnCl ₂ (s)	Manganese(II) Chloride	Cl₂Mn (s) MnCl ₂ (s)
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mp = 923 K (650 °C)

$$\Delta H_{298}^0 = -481.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 118.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 73.8 + 15.23 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 923 \text{ K}) [4]$$

$$\lg(p, K) = -11.79 \cdot 10^3 \cdot T^{-1} - 2.81 \cdot \lg(T) + 17.63 (700 \dots 923 \text{ K}) [4]$$

{Reaction: evaporation as MnCl₂(g)}

Cl₂Mn (s) MnCl ₂ (s)	Manganese(II) Chloride	Cl₂Mn (s) MnCl ₂ (s)
$\Delta H_{923}^0 = -430.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 208.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₂Mn (l) MnCl ₂ (l)	Manganese(II) Chloride	Cl₂Mn (l) MnCl ₂ (l)
$\Delta H_{923}^0 = -392.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 249.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (923 K) [4]		
$\lg(p, K) = -10.26 \cdot 10^3 \cdot T^{-1} - 3.91 \cdot \lg(T) + 19.23$ (923 ... 1509 K) [4]		
{Reaction: evaporation as MnCl ₂ (g)}		

Cl₂Mn (g) MnCl ₂ (g)	Manganese(II) Chloride	Cl₂Mn (g) MnCl ₂ (g)
$\Delta H_{298}^0 = -264.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 295.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.58 + 0.48 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Cl₂Mo (s) MoCl ₂ (s)	Molybdenum(II) Chloride	Cl₂Mo (s) MoCl ₂ (s)
$\Delta H_{298}^0 = -279.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 116.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.5 + 25.52 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1219 K) [4]		

Cl₂Mo (g) MoCl ₂ (g)	Molybdenum(II) Chloride	Cl₂Mo (g) MoCl ₂ (g)
$\Delta H_{298}^0 = 83.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 294 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.86 - 11.57 \cdot 10^{-3} \cdot T - 0.56 \cdot 10^6 \cdot T^{-2} + 2.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Cl₂MoO₂ (s)	Molybdenum Chloride Oxide	Cl₂MoO₂ (s)
MoO ₂ Cl ₂ (s)		MoO ₂ Cl ₂ (s)

bp = 430 K (157 °C)

$$\Delta H_{298}^0 = -725.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 120.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 127.4 + 7.03 \cdot 10^{-3} \cdot T - 1.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 430 \text{ K}) [4]$$

$$\lg(p, K) = -5.23 \cdot 10^3 \cdot T^{-1} - 2.97 \cdot \lg(T) + 19.99 (298 \dots 430 \text{ K}) [4]$$

{Reaction: evaporation as MoO₂Cl₂(g)}

Cl₂MoO₂ (s)	Molybdenum Chloride Oxide	Cl₂MoO₂ (s)
MoO ₂ Cl ₂ (s)		MoO ₂ Cl ₂ (s)

$$\Delta H_{430}^0 = -710.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{430}^0 = 162.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂MoO₂ (g)	Molybdenum Chloride Oxide	Cl₂MoO₂ (g)
MoO ₂ Cl ₂ (g)		MoO ₂ Cl ₂ (g)

$$\Delta H_{430}^0 = -621.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{430}^0 = 370.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 103.38 + 2.44 \cdot 10^{-3} \cdot T - 1.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (430 \dots 2000 \text{ K}) [4]$$

Cl₂MoO₂ (g)	Molybdenum Chloride Oxide	Cl₂MoO₂ (g)
MoO ₂ Cl ₂ (g)		MoO ₂ Cl ₂ (g)

$$\Delta H_{298}^0 = -633 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 337.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

Cl₂Na₂ (g)	Sodium Chloride	Cl₂Na₂ (g)
(NaCl) ₂ (g)		(NaCl) ₂ (g)

$$\Delta H_{298}^0 = -586.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 325.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.02 + 0.08 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -13.23 \cdot 10^3 \cdot T^{-1} - 5.69 \cdot \lg(T) + 26.33 (700 \dots 1074 \text{ K}) [4]$$

{Reaction: evaporation of NaCl(s)}

Cl₂Nb (s)	Niobium(II) Chloride	Cl₂Nb (s)
NbCl ₂ (s)		NbCl ₂ (s)

$$\Delta H_{298}^0 = -407.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 117.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 71.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₂NbO (s)	Niobium Chloride Oxide	Cl₂NbO (s)
NbOCl ₂ (s)		NbOCl ₂ (s)

$$\Delta H_{298}^0 = -774.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 96.23 + 16.74 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Cl₂Ni (s)	Nickel(II) Chloride	Cl₂Ni (s)
NiCl ₂ (s)		NiCl ₂ (s)

$$\text{mp} = 1274 \text{ K} (1001 \text{ }^\circ\text{C})$$

$$\text{bp} = 1228 \text{ K} (955 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -304.9 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 98.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 73.19 + 13.12 \cdot 10^{-3} \cdot T - 0.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1228 \text{ K}) [4]$$

$$\lg(p, K) = -12.72 \cdot 10^3 \cdot T^{-1} - 2.25 \cdot \lg(T) + 17.31 (700 \dots 1228 \text{ K}) [4]$$

{Reaction: evaporation of NiCl₂(s)}

Cl₂Ni (l)	Nickel(II) Chloride	Cl₂Ni (l)
NiCl ₂ (l)		NiCl ₂ (l)

$$\Delta H_{298}^0 = -233.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 151.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₂Ni (g)	Nickel(II) Chloride	Cl₂Ni (g)
NiCl ₂ (g)		NiCl ₂ (g)

$$\Delta H_{298}^0 = -70.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 298.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 68.29 - 0.97 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂O (g)	Chlorine Oxide	Cl₂O (g)
ClOCl (g)		ClOCl (g)

$$\Delta H_{298}^0 = 81 \pm 2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 271.7 \pm 1.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₂O (g) ClClO (g)	Chlorosyl Chloride	Cl₂O (g) ClClO (g)
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$$\Delta H_{298}^0 = 90 \pm 30 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 48.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 278.8 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Cl₂OS (l) SOCl ₂ (l)	Thionyl Chloride	Cl₂OS (l) SOCl ₂ (l)
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$$\Delta H_{298}^0 = -247.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 121 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$S_{298}^0 = 207.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂OS (g) SOCl ₂ (g)	Thionyl Chloride	Cl₂OS (g) SOCl ₂ (g)
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$$\Delta H_{298}^0 = -212.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 74.27 + 7.2 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 308.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Cl₂OSe (l) SeOCl ₂ (l)	Selenium Chloride Oxide	Cl₂OSe (l) SeOCl ₂ (l)
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$$\Delta H_{298}^0 = -183 \pm 13 \text{ kJ}\cdot\text{mol}^{-1} [55]$$

$$S_{298}^0 = 193.8 \pm 5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [55]$$

Cl₂OTe (g) TeOCl ₂ (g)	Tellurium Chloride Oxide	Cl₂OTe (g) TeOCl ₂ (g)
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$$\Delta H_{298}^0 = -188.3 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1} [52]$$

$$C_p^0 = 81.46 + 0.88 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [63]$$

$$S_{298}^0 = 324.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [52]$$

Cl₂OTh (s) ThOCl ₂ (s)	Thorium Chloride Oxide	Cl₂OTh (s) ThOCl ₂ (s)
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$$\Delta H_{298}^0 = -1232.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 94.77 + 16.31 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1309 \text{ K}) [4]$$

$$S_{298}^0 = 119.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂O_{Ti} (g)	Titanium Chloride Oxide	Cl₂O_{Ti} (g)
TiOCl ₂ (g)		TiOCl ₂ (g)

$$\Delta H_{298}^0 = -545.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 321 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₂O_U (s)	Uranium(IV) Chloride Oxide	Cl₂O_U (s)
UOCl ₂ (s)		UOCl ₂ (s)

$$\Delta H_{298}^0 = -1067.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 138.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 98.95 + 14.64 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Cl₂O_V (s)	Vanadium Chloride Oxide	Cl₂O_V (s)
VOCl ₂ (s)		VOCl ₂ (s)

$$\Delta H_{298}^0 = -690.4 \text{ kJ}\cdot\text{mol}^{-1} [62]$$

$$S_{298}^0 = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [62]$$

$$C_p^0 = 95.06 + 14.94 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [62]$$

Cl₂O_V (g)	Vanadium Chloride Oxide	Cl₂O_V (g)
VOCl ₂ (g)		VOCl ₂ (g)

$$\Delta H_{298}^0 = -545.6 \text{ kJ}\cdot\text{mol}^{-1} [62]$$

$$S_{298}^0 = 311.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [62]$$

$$C_p^0 = 81.59 + 0.84 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [62]$$

Cl₂O₂ (g)	Chlorine Oxide	Cl₂O₂ (g)
ClO ₂ Cl (g)		ClO ₂ Cl (g)

$$\Delta H_{298}^0 = 133 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 301 \pm 5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 64.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₂O₂ (g)	Chloryl Chloride	Cl₂O₂ (g)
ClOClO (g)		ClOClO (g)

$$\Delta H_{298}^0 = 176.4 \pm 15 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 309.2 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 67.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₂O₂ (g) ClClO ₂ (g)	Chlorine Chlorite	Cl₂O₂ (g) ClClO ₂ (g)
$\Delta H_{298}^0 = 136.6 \pm 16 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 60.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 294.4 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cl₂O₂S (l) SO ₂ Cl ₂ (l)	Sulfuryl Chloride	Cl₂O₂S (l) SO ₂ Cl ₂ (l)
$\Delta H_{298}^0 = -394.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		bp = 343 K (70 °C) $S_{298}^0 = 196 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂O₂S (g) SO ₂ Cl ₂ (g)	Sulfuryl Chloride	Cl₂O₂S (g) SO ₂ Cl ₂ (g)
$\Delta H_{298}^0 = -354.8 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 97.23 + 5.73 \cdot 10^{-3} \cdot T - 2.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 311.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cl₂O₂U (s) UO ₂ Cl ₂ (s)	Uranyl Dichloride	Cl₂O₂U (s) UO ₂ Cl ₂ (s)
mp = 850 K (577 °C) $\Delta H_{298}^0 = -1243.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 115.23 + 18.2 \cdot 10^{-3} \cdot T - 1.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 850 K) [4] $\lg(p, K) = -14.54 \cdot 10^3 \cdot T^{-1} - 2.94 \cdot \lg(T) + 20.31$ (700 ... 850 K) [4] {Reaction: evaporation}		$S_{298}^0 = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂O₂U (s) UO ₂ Cl ₂ (s)	Uranyl Dichloride	Cl₂O₂U (s) UO ₂ Cl ₂ (s)
$\Delta H_{850}^0 = -1176.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{850}^0 = 275.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂O₂U (l) UO ₂ Cl ₂ (l)	Uranyl Dichloride	Cl₂O₂U (l) UO ₂ Cl ₂ (l)
$\Delta H_{850}^0 = -1132.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 159.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (850 K) [4]		$S_{850}^0 = 327.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₂O₂U (g)	Uranyl Dichloride	Cl₂O₂U (g)
UO ₂ Cl ₂ (g)		UO ₂ Cl ₂ (g)

$$\Delta H_{298}^0 = -973.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 372.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 102.42 + 3.59 \cdot 10^{-3} \cdot T - 1.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₂O₂W (s)	Tungsten Dichloride Dioxide	Cl₂O₂W (s)
WO ₂ Cl ₂ (s)		WO ₂ Cl ₂ (s)

$$\Delta H_{298}^0 = -780.3 \pm 5.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 79.51 + 94.11 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 642 K) [4]}$$

$$\lg(p, K) = -6.33 \cdot 10^3 \cdot T^{-1} - 4.06 \cdot \lg(T) + 20.15 \text{ (400 ... 642 K) [4]}$$

{Reaction: evaporation}

Cl₂O₂W (g)	Tungsten Dichloride Dioxide	Cl₂O₂W (g)
WO ₂ Cl ₂ (g)		WO ₂ Cl ₂ (g)

$$\Delta H_{298}^0 = -671.5 \pm 25 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 353.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 103.58 + 2.3 \cdot 10^{-3} \cdot T - 1.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₂Pb (s)	Lead(II) Chloride	Cl₂Pb (s)
PbCl ₂ (s)		PbCl ₂ (s)

$$\text{mp} = 774 \text{ K (501 } ^\circ\text{C)} \qquad \text{bp} = 1223 \text{ K (950 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -359.4 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 136 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 68.49 + 29.04 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 774 K) [4]}$$

$$\lg(p, K) = -10.25 \cdot 10^3 \cdot T^{-1} - 3.72 \cdot \lg(T) + 20.52 \text{ (600 ... 774 K) [4]}$$

{Reaction: evaporation as PbCl₂(g)}

Cl₂Pb (s)	Lead(II) Chloride	Cl₂Pb (s)
PbCl ₂ (s)		PbCl ₂ (s)

$$\Delta H_{774}^0 = -319.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{774}^0 = 215.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₂Pb (l) PbCl ₂ (l)	Lead(II) Chloride	Cl₂Pb (l) PbCl ₂ (l)
$\Delta H_{774}^0 = -297.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{774}^0 = 243.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 111.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (774 K) [4]		
$\lg(p, K) = -10.02 \cdot 10^3 \cdot T^{-1} - 6.45 \cdot \lg(T) + 28.11$ (774 ... 1223 K) [4]		
{Reaction: evaporation as PbCl ₂ (g)}		
Cl₂Pb (g) PbCl ₂ (g)	Lead(II) Chloride	Cl₂Pb (g) PbCl ₂ (g)
$\Delta H_{298}^0 = -174.1 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 317.2 \pm 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.05 + 0.09 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Pd (s) PdCl ₂ (s)	Palladium(II) Chloride	Cl₂Pd (s) PdCl ₂ (s)
mp = 952 K (679 °C)		
$\Delta H_{298}^0 = -173.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 104.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.04 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 952 K) [4]		
$\lg(p, K) = -9.42 \cdot 10^3 \cdot T^{-1} - 2.37 \cdot \lg(T) + 15.22$ (600 ... 952 K) [4]		
{Reaction: decomposition PdCl ₂ (s) = Pd(s) + Cl ₂ (g)}		
Cl₂Pd (s) PdCl ₂ (s)	Palladium(II) Chloride	Cl₂Pd (s) PdCl ₂ (s)
$\Delta H_{952}^0 = -119.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{952}^0 = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂Pd (l) PdCl ₂ (l)	Palladium(II) Chloride	Cl₂Pd (l) PdCl ₂ (l)
$\Delta H_{952}^0 = -101.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{952}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (952 K) [4]		

Cl₂Pd (g)	Palladium(II) Chloride	Cl₂Pd (g)
PdCl ₂ (g)		PdCl ₂ (g)

$$\Delta H_{298}^0 = 117.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 307 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 68.29 - 0.97 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1825 \text{ K}) [4]$$

$$\lg(p, K) = -15.65 \cdot 10^3 \cdot T^{-1} - 2.5 \cdot \lg(T) + 18.15 (800 \dots 952 \text{ K}) [4]$$

{Reaction: evaporation of PdCl₂(s)}

Cl₂Pt (s)	Platinum(II) Chloride	Cl₂Pt (s)
PtCl ₂ (s)		PtCl ₂ (s)

$$\Delta H_{298}^0 = -116.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 121.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 64.43 + 36.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 854 \text{ K}) [4]$$

$$\lg(p, K) = -6.5 \cdot 10^3 \cdot T^{-1} - 2.84 \cdot \lg(T) + 15.94 (400 \dots 854 \text{ K}) [4]$$

{Reaction: decomposition PtCl₂(s) = Pt(s) + Cl₂(g)}

Cl₂Pt (g)	Platinum(II) Chloride	Cl₂Pt (g)
PtCl ₂ (g)		PtCl ₂ (g)

$$\Delta H_{298}^0 = 125.5 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} [75]$$

$$S_{298}^0 = 297.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [75]$$

Cl₂Rb₂ (g)	Rubidium Chloride	Cl₂Rb₂ (g)
(RbCl) ₂ (g)		(RbCl) ₂ (g)

$$\Delta H_{298}^0 = -619 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 373.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₂Rh (g)	Rhodium(II) Chloride	Cl₂Rh (g)
RhCl ₂ (g)		RhCl ₂ (g)

$$\Delta H_{298}^0 = 126.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 288.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 53.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₂S (l) SCl ₂ (l)	Sulfur(II) Chloride	Cl₂S (l) SCl ₂ (l)
mp = 195 K (-78 °C)		
$\Delta H_{298}^0 = -49.8 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 183.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Cl₂S (g) SCl ₂ (g)	Sulfur(II) Chloride	Cl₂S (g) SCl ₂ (g)
$\Delta H_{298}^0 = -17.6 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 281.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.53 + 0.36 \cdot 10^{-3} \cdot T - 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂S₂ (l) S ₂ Cl ₂ (l)	Dichlorodisulfane	Cl₂S₂ (l) S ₂ Cl ₂ (l)
mp = 193 K (-80 °C)		
$\Delta H_{298}^0 = -58.2 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 223.8 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 124.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₂S₂ (g) ClSSCl (g)	Sulfur Chloride	Cl₂S₂ (g) ClSSCl (g)
$\Delta H_{298}^0 = -16.7 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 327.2 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 80.79 + 3.04 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Se (g) SeCl ₂ (g)	Selenium(II) Chloride	Cl₂Se (g) SeCl ₂ (g)
$\Delta H_{298}^0 = -33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 295.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 57.95 + 0.13 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Se₂ (l) Se ₂ Cl ₂ (l)	Diselenium Dichloride	Cl₂Se₂ (l) Se ₂ Cl ₂ (l)
$\Delta H_{298}^0 = -83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 246.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 127.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Cl₂Se₂ (g)	Diselenium Dichloride	Cl₂Se₂ (g)
Se ₂ Cl ₂ (g)		Se ₂ Cl ₂ (g)

mp = 188 K (-85 °C)

$$\Delta H_{298}^0 = -21.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 353.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.38 + 1.57 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂Si (g)	Silicon(II) Chloride	Cl₂Si (g)
SiCl ₂ (g)		SiCl ₂ (g)

$$\Delta H_{298}^0 = -168.6 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 281.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 57.3 + 0.56 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂Sm (s)	Samarium(II) Chloride	Cl₂Sm (s)
SmCl ₂ (s)		SmCl ₂ (s)

mp = 1013 K (740 °C)

bp = 2233 K (1960 °C)

$$\Delta H_{298}^0 = -816.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 127.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 77.4 + 16.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1013 \text{ K}) [4]$$

Cl₂Sm (s)	Samarium(II) Chloride	Cl₂Sm (s)
SmCl ₂ (s)		SmCl ₂ (s)

$$\Delta H_{1013}^0 = -753.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1013}^0 = 234.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂Sm (l)	Samarium(II) Chloride	Cl₂Sm (l)
SmCl ₂ (l)		SmCl ₂ (l)

$$\Delta H_{1013}^0 = -738.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1013}^0 = 248.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1013 \text{ K}) [4]$$

$$\lg(p, K) = -16.81 \cdot 10^3 \cdot T^{-1} - 5.13 \cdot \lg(T) + 24.71 (1013 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as SmCl₂(g)}

Cl₂Sm (g)	Samarium(II) Chloride	Cl₂Sm (g)
SmCl ₂ (g)		SmCl ₂ (g)

$$\Delta H_{298}^0 = -500.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 315.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.68 + 0.28 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂Sn (s)	Tin(II) Chloride	Cl₂Sn (s)
SnCl ₂ (s)		SnCl ₂ (s)

mp = 520 K (247 °C)

 $\Delta H_{298}^0 = -328 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 64.73 + 44.61 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 520 K) [4] $\lg(p,K) = -7.34 \cdot 10^3 \cdot T^{-1} - 3.67 \cdot \lg(T) + 19.78$ (400 ... 520 K) [4]{Reaction: evaporation as SnCl₂(g)}

bp = 885 K (612 °C)

 $S_{298}^0 = 134.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Cl₂Sn (s)	Tin(II) Chloride	Cl₂Sn (s)
SnCl ₂ (s)		SnCl ₂ (s)

 $\Delta H_{520}^0 = -309.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{520}^0 = 180 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₂Sn (l)	Tin(II) Chloride	Cl₂Sn (l)
SnCl ₂ (l)		SnCl ₂ (l)

 $\Delta H_{520}^0 = -295 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{520}^0 = 208.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 100.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (520 K) [4] $\lg(p,K) = -6.93 \cdot 10^3 \cdot T^{-1} - 5.19 \cdot \lg(T) + 23.12$ (520 ... 885 K) [4]{Reaction: evaporation as SnCl₂(g)}

Cl₂Sn (g)	Tin(II) Chloride	Cl₂Sn (g)
SnCl ₂ (g)		SnCl ₂ (g)

 $\Delta H_{298}^0 = -197.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 305.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 57.99 + 0.13 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₂Sr (s)	Strontium(II) Chloride	Cl₂Sr (s)
SrCl ₂ (s)		SrCl ₂ (s)

mp = 1146 K (873 °C)

bp = 2313 K (2040 °C)

 $\Delta H_{298}^0 = -828.9 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 114.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 33.44 + 79.87 \cdot 10^{-3} \cdot T + 1.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 990 K) [4] $\lg(p,K) = -21.69 \cdot 10^3 \cdot T^{-1} - 10.14 \cdot \lg(T) + 43.42$ (990 ... 1146 K) [4]{Reaction: evaporation as SrCl₂(g)}

Cl₂Sr (s) SrCl ₂ (s)	Strontium(II) Chloride	Cl₂Sr (s) SrCl ₂ (s)
$\Delta H_{1146}^0 = -744.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1146}^0 = 239.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₂Sr (l) SrCl ₂ (l)	Strontium(II) Chloride	Cl₂Sr (l) SrCl ₂ (l)
$\Delta H_{1146}^0 = -727.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1146}^0 = 253.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1146 K) [4]		
$\lg(p, K) = -18.38 \cdot 10^3 \cdot T^{-1} - 5.11 \cdot \lg(T) + 25.14$ (1146 ... 2000 K) [4]		
{Reaction: evaporation as SrCl ₂ (g)}		
Cl₂Sr (g) SrCl ₂ (g)	Strontium(II) Chloride	Cl₂Sr (g) SrCl ₂ (g)
$\Delta H_{298}^0 = -473.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 316.3 \pm 5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.1 + 0.06 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} - 0.21 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Ta (g) TaCl ₂ (g)	Tantalum(II) Chloride	Cl₂Ta (g) TaCl ₂ (g)
$\Delta H_{298}^0 = -66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 298.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 62.06 + 0.13 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Te (s) TeCl ₂ (s)	Tellurium(II) Chloride	Cl₂Te (s) TeCl ₂ (s)
mp = 448 K (175 °C)		
$\Delta H_{298}^0 = -190.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 161.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -4.54 \cdot 10^3 \cdot T^{-1} - 3.4 \cdot \lg(T) + 17.42$ (298 ... 448 K) [4]		
{Reaction: evaporation as TeCl ₂ (g)}		
Cl₂Te (s) TeCl ₂ (s)	Tellurium(II) Chloride	Cl₂Te (s) TeCl ₂ (s)
$\Delta H_{448}^0 = -177.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{448}^0 = 195.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₂Te (l)	Tellurium(II) Chloride	Cl₂Te (l)
TeCl ₂ (l)		TeCl ₂ (l)

$$\Delta H_{448}^0 = -166.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{448}^0 = 220.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 94.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (448 \text{ K}) [4]$$

Cl₂Te (g)	Tellurium(II) Chloride	Cl₂Te (g)
TeCl ₂ (g)		TeCl ₂ (g)

$$\Delta H_{298}^0 = -111.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 305.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 58.03 + 0.09 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂Ti (s)	Titanium(II) Chloride	Cl₂Ti (s)
TiCl ₂ (s)		TiCl ₂ (s)

$$\Delta H_{298}^0 = -515.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 87.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.37 + 18.03 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1246 \text{ K}) [4]$$

Cl₂Ti (g)	Titanium(II) Chloride	Cl₂Ti (g)
TiCl ₂ (g)		TiCl ₂ (g)

$$\Delta H_{298}^0 = -237.2 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 278.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 60.12 + 2.22 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1939 \text{ K}) [4]$$

Cl₂Tl₂ (g)	Thallium(I) Chloride	Cl₂Tl₂ (g)
(TlCl) ₂ (g)		(TlCl) ₂ (g)

$$\Delta H_{298}^0 = -238.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 386.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 83.11 + 0.03 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -9.22 \cdot 10^3 \cdot T^{-1} - 3.9 \cdot \lg(T) + 19.84 (600 \dots 704 \text{ K}) [4]$$

{Reaction: evaporation of TlCl(l)}

Cl₂V (s)	Vanadium(II) Chloride	Cl₂V (s)
VCl ₂ (s)		VCl ₂ (s)

$$\text{mp} = 1620 \text{ K} (1347 \text{ }^\circ\text{C})$$

$$\text{bp} = 1650 \text{ K} (1377 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -461.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 71.91 + 11.93 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1620 \text{ K}) [4]$$

Cl₂V (g)	Vanadium(II) Chloride	Cl₂V (g)
VCl ₂ (g)		VCl ₂ (g)

$$\Delta H_{298}^0 = -203.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 284.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₂W (s)	Tungsten(II) Chloride	Cl₂W (s)
WCl ₂ (s)		WCl ₂ (s)

$$\Delta H_{298}^0 = -260.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.28 + 21.9 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 862 \text{ K}) [4]$$

Cl₂W (g)	Tungsten(II) Chloride	Cl₂W (g)
WCl ₂ (g)		WCl ₂ (g)

$$\Delta H_{298}^0 = -12.6 \pm 105 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 309.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 58.17 + 4.51 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₂Yb (s)	Ytterbium(II) Chloride	Cl₂Yb (s)
YbCl ₂ (s)		YbCl ₂ (s)

$$\text{mp} = 1000 \text{ K} (727 \text{ }^\circ\text{C})$$

$$\text{bp} = 2200 \text{ K} (1927 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -799.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 67.99 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Cl₂Zn (s)	Zinc(II) Chloride	Cl₂Zn (s)
ZnCl ₂ (s)		ZnCl ₂ (s)

$$\text{mp} = 591 \text{ K} (318 \text{ }^\circ\text{C})$$

$$\text{bp} = 1004 \text{ K} (731 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -415.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 111.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 59.83 + 37.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 591 \text{ K}) [4]$$

$$\lg(p, K) = -8.08 \cdot 10^3 \cdot T^{-1} - 2.42 \cdot \lg(T) + 15.81 (500 \dots 591 \text{ K}) [4]$$

{Reaction: evaporation as ZnCl₂(g)}

Cl₂Zn (s)	Zinc(II) Chloride	Cl₂Zn (s)
ZnCl ₂ (s)		ZnCl ₂ (s)

$$\Delta H_{591}^0 = -392.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{591}^0 = 163.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₂Zn (l) ZnCl ₂ (l)	Zinc(II) Chloride	Cl₂Zn (l) ZnCl ₂ (l)
$\Delta H_{591}^0 = -382.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{591}^0 = 181 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (591 K) [4]		
$\lg(p, K) = -8.15 \cdot 10^3 \cdot T^{-1} - 4.81 \cdot \lg(T) + 22.55$ (591 ... 1004 K) [4]		
{Reaction: evaporation as ZnCl ₂ (g)}		
Cl₂Zn (g) ZnCl ₂ (g)	Zinc(II) Chloride	Cl₂Zn (g) ZnCl ₂ (g)
$\Delta H_{298}^0 = -267.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 277.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.71 - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₂Zr (s) ZrCl ₂ (s)	Zirconium(II) Chloride	Cl₂Zr (s) ZrCl ₂ (s)
		bp = 1564 K (1291 °C)
$\Delta H_{298}^0 = -431 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 110 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.32 + 13.1 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Cl₂Zr (l) ZrCl ₂ (l)	Zirconium(II) Chloride	Cl₂Zr (l) ZrCl ₂ (l)
$\Delta H_{298}^0 = -411.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 122.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₂Zr (g) ZrCl ₂ (g)	Zirconium(II) Chloride	Cl₂Zr (g) ZrCl ₂ (g)
$\Delta H_{298}^0 = -186.2 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 292.6 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.12 + 1.36 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl_{2.33}Nb (s) NbCl _{2.33} (s)	Niobium Chloride	Cl_{2.33}Nb (s) NbCl _{2.33} (s)
$\Delta H_{298}^0 = -474.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Cl_{2,67}Nb (s) NbCl _{2,67} (s)	Niobium Chloride	Cl_{2,67}Nb (s) NbCl _{2,67} (s)
$\Delta H_{298}^0 = -538.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 137.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 85.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Cl₃Co (g) CoCl ₃ (g)	Cobalt(III) Chloride	Cl₃Co (g) CoCl ₃ (g)
$\Delta H_{298}^0 = -163.6 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 334.2 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 87.61 - 2 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -8.15 \cdot 10^3 \cdot T^{-1} - 2.51 \cdot \lg(T) + 13.31$ (600 ... 994 K) [4]		
{Reaction: CoCl ₂ (s) + 1/2Cl ₂ (g) = CoCl ₃ (g)}		
Cl₃Cr (s) CrCl ₃ (s)	Chromium(III) Chloride	Cl₃Cr (s) CrCl ₃ (s)
		bp = 1279 K (1006 °C)
$\Delta H_{298}^0 = -556.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 98.83 + 13.98 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1088 K) [4]		
Cl₃Cr (g) CrCl ₃ (g)	Chromium(III) Chloride	Cl₃Cr (g) CrCl ₃ (g)
$\Delta H_{298}^0 = -325.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 317.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.35 + 3.16 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₃CsMg (s) CsCl · MgCl ₂ (s)	Cesium Magnesium Chloride	Cl₃CsMg (s) CsCl · MgCl ₂ (s)
$\Delta H_{298}^0 = -1113 \text{ kJ}\cdot\text{mol}^{-1}$ [206]		$S_{298}^0 = [190.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [208]
$C_p^0 = [123.80] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

Cl₃Cu₃ (g) (CuCl) ₃ (g)	Copper(I) Chloride	Cl₃Cu₃ (g) (CuCl) ₃ (g)
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$\Delta H_{298}^0 = -263.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 429.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 132.88 + 0.08 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p,K) = -8.58 \cdot 10^3 \cdot T^{-1} - 6.2 \cdot \lg(T) + 27.07$ (500 ... 683 K) [4]	
{Reaction: evaporation as Cu ₃ Cl ₃ (g)}	

Cl₃Dy (s) DyCl ₃ (s)	Dysprosium(III) Chloride	Cl₃Dy (s) DyCl ₃ (s)
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mp = 924 K (651 °C)	bp = 1810 K (1537 °C)
$\Delta H_{298}^0 = -998.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 150.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 98.69 + 13.32 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 924 K) [4]	
$\lg(p,K) = -17.3 \cdot 10^3 \cdot T^{-1} - 3.22 \cdot \lg(T) + 21.58$ (900 ... 924 K) [4]	
{Reaction: evaporation as DyCl ₃ (g)}	

Cl₃Dy (s) DyCl ₃ (s)	Dysprosium(III) Chloride	Cl₃Dy (s) DyCl ₃ (s)
--	--------------------------	--

$\Delta H_{924}^0 = -932.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{924}^0 = 268.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Dy (l) DyCl ₃ (l)	Dysprosium(III) Chloride	Cl₃Dy (l) DyCl ₃ (l)
--	--------------------------	--

$\Delta H_{924}^0 = -888.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{924}^0 = 315.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 144.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (924 K) [4]	
$\lg(p,K) = -16.59 \cdot 10^3 \cdot T^{-1} - 7.19 \cdot \lg(T) + 32.59$ (924 ... 1810 K) [4]	
{Reaction: evaporation as DyCl ₃ (g)}	

Cl₃Dy (g) DyCl ₃ (g)	Dysprosium(III) Chloride	Cl₃Dy (g) DyCl ₃ (g)
--	--------------------------	--

$\Delta H_{298}^0 = -677.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 379.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.25 + 2.9 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃DyH₁₂O₆ (s)	Dysprosium(III) Chloride	Cl₃DyH₁₂O₆ (s)
DyCl ₃ · 6H ₂ O (s)	Hexahydrate	DyCl ₃ · 6H ₂ O (s)

$$\Delta H_{298}^0 = -2870 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$C_p^0 = 346 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

$$S_{298}^0 = 401.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

Cl₃Er (s)	Erbium(III) Chloride	Cl₃Er (s)
ErCl ₃ (s)		ErCl ₃ (s)

$$\text{mp} = 1049 \text{ K (776 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -994.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$C_p^0 = 95.11 + 18.75 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1049 K) [4]}$$

$$\lg(p, K) = -15.82 \cdot 10^3 \cdot T^{-1} - 3.57 \cdot \lg(T) + 21.66 \text{ (800 ... 1049 K) [4]}$$

{Reaction: evaporation as ErCl₃(g)}

$$\text{bp} = 1750 \text{ K (1477 } ^\circ\text{C)}$$

$$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₃Er (s)	Erbium(III) Chloride	Cl₃Er (s)
ErCl ₃ (s)		ErCl ₃ (s)

$$\Delta H_{1049}^0 = -914.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1049}^0 = 287.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₃Er (l)	Erbium(III) Chloride	Cl₃Er (l)
ErCl ₃ (l)		ErCl ₃ (l)

$$\Delta H_{1049}^0 = -872.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 148.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1049 K) [4]}$$

$$\lg(p, K) = -15.61 \cdot 10^3 \cdot T^{-1} - 7.9 \cdot \lg(T) + 34.54 \text{ (1049 ... 1750 K) [4]}$$

{Reaction: evaporation as ErCl₃(g)}

$$S_{1049}^0 = 327.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₃Er (g)	Erbium(III) Chloride	Cl₃Er (g)
ErCl ₃ (g)		ErCl ₃ (g)

$$\Delta H_{298}^0 = -703.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 82.87 + 0.17 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$S_{298}^0 = 363.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₃ErH₁₂O₆ (s) ErCl ₃ · 6H ₂ O (s)	Erbium(III) Chloride Hexahydrate	Cl₃ErH₁₂O₆ (s) ErCl ₃ · 6H ₂ O (s)
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$$\Delta H_{298}^0 = -2874.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 343.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 398.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Cl₃Eu (s) EuCl ₃ (s)	Europium(III) Chloride	Cl₃Eu (s) EuCl ₃ (s)
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$$\text{mp} = 897 \text{ K} (624 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -936 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 102.86 + 26.1 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 897 \text{ K}) [4]$$

$$\lg(p, K) = -15.21 \cdot 10^3 \cdot T^{-1} - 3.85 \cdot \lg(T) + 23.12 (800 \dots 897 \text{ K}) [4]$$

{Reaction: evaporation as EuCl₃(g)}

$$\text{bp} = 1873 \text{ K} (1600 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 144.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Cl₃Eu (s) EuCl ₃ (s)	Europium(III) Chloride	Cl₃Eu (s) EuCl ₃ (s)
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$$\Delta H_{897}^0 = -865.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{897}^0 = 271.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Eu (l) EuCl ₃ (l)	Europium(III) Chloride	Cl₃Eu (l) EuCl ₃ (l)
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$$\Delta H_{897}^0 = -814.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 142.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (897 \text{ K}) [4]$$

$$\lg(p, K) = -13.4 \cdot 10^3 \cdot T^{-1} - 6.02 \cdot \lg(T) + 27.5 (897 \dots 1300 \text{ K}) [4]$$

{Reaction: evaporation as EuCl₃(g)}

$$S_{897}^0 = 328.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Eu (g) EuCl ₃ (g)	Europium(III) Chloride	Cl₃Eu (g) EuCl ₃ (g)
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$$\Delta H_{298}^0 = -658.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 94.55 - 1.46 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 363.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Cl₃EuH₁₂O₆ (s) EuCl ₃ · 6H ₂ O (s)	Europium(III) Chloride Hexahydrate	Cl₃EuH₁₂O₆ (s) EuCl ₃ · 6H ₂ O (s)
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$$\Delta H_{298}^0 = -2784.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 366.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 407.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Cl₃FSi (g) SiCl ₃ F (g)	Trichlorofluorosilane	Cl₃FSi (g) SiCl ₃ F (g)
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$$\Delta H_{298}^0 = -841 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 90.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 336.1 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Cl₃Fe (s) FeCl ₃ (s)	Iron(III) Chloride	Cl₃Fe (s) FeCl ₃ (s)
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$$\text{mp} = 577 \text{ K} (304 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -399.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 74.59 + 78.27 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 577 \text{ K}) [4]$$

$$\text{bp} = 604 \text{ K} (331 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 147.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Fe (s) FeCl ₃ (s)	Iron(III) Chloride	Cl₃Fe (s) FeCl ₃ (s)
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$$\Delta H_{577}^0 = -369 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{577}^0 = 218.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Fe (l) FeCl ₃ (l)	Iron(III) Chloride	Cl₃Fe (l) FeCl ₃ (l)
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$$\Delta H_{577}^0 = -325.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (577 \text{ K}) [4]$$

$$S_{577}^0 = 293.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Fe (l) FeCl ₃ (l)	Iron(III) Chloride	Cl₃Fe (l) FeCl ₃ (l)
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$$\Delta H_{298}^0 = -362.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 200.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Cl₃Fe (g)	Iron(III) Chloride	Cl₃Fe (g)
FeCl ₃ (g)		FeCl ₃ (g)

$\Delta H_{298}^0 = -253.1 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 344.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.88 + 0.16 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -8.14 \cdot 10^3 \cdot T^{-1} - 3.8 \cdot \lg(T) + 21.49$ (400 ... 577 K) [4]	
{Reaction: evaporation of FeCl ₃ (s)}	

Cl₃Ga (s)	Gallium(III) Chloride	Cl₃Ga (s)
GaCl ₃ (s)		GaCl ₃ (s)

mp = 351 K (78 °C)	bp = 474 K (201 °C)
$\Delta H_{298}^0 = -524.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 135.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 118.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

Cl₃Ga (s)	Gallium(III) Chloride	Cl₃Ga (s)
GaCl ₃ (s)		GaCl ₃ (s)

$\Delta H_{351}^0 = -518.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{351}^0 = 154.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Ga (l)	Gallium(III) Chloride	Cl₃Ga (l)
GaCl ₃ (l)		GaCl ₃ (l)

$\Delta H_{351}^0 = -506.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{351}^0 = 187.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 128.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (351 K) [4]	

Cl₃Ga (g)	Gallium(III) Chloride	Cl₃Ga (g)
GaCl ₃ (g)		GaCl ₃ (g)

$\Delta H_{298}^0 = -422.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 325.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.43 + 0.44 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -5.98 \cdot 10^3 \cdot T^{-1} - 5.1 \cdot \lg(T) + 24.76$ (298 ... 351 K) [4]	
{Reaction: evaporation of GaCl ₃ (s)}	

Cl₃Gd (s)	Gadolinium(III) Chloride	Cl₃Gd (s)
GdCl ₃ (s)		GdCl ₃ (s)

mp = 875 K (602 °C)

bp = 1919 K (1646 °C)

 $\Delta H_{298}^0 = -1008.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 151.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 93.1 + 25.05 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 875 K) [4]

Cl₃Gd (s)	Gadolinium(III) Chloride	Cl₃Gd (s)
GdCl ₃ (s)		GdCl ₃ (s)

 $\Delta H_{875}^0 = -946.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{875}^0 = 265 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₃Gd (l)	Gadolinium(III) Chloride	Cl₃Gd (l)
GdCl ₃ (l)		GdCl ₃ (l)

 $\Delta H_{875}^0 = -906 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{875}^0 = 311.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 139.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (875 K) [4] $\lg(p, K) = -15.97 \cdot 10^3 \cdot T^{-1} - 6.8 \cdot \lg(T) + 30.65$ (875 ... 1919 K) [4]{Reaction: evaporation as GdCl₃(g)}

Cl₃Gd (g)	Gadolinium(III) Chloride	Cl₃Gd (g)
GdCl ₃ (g)		GdCl ₃ (g)

 $\Delta H_{298}^0 = -696.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 371.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 82.86 + 0.18 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₃Ge (g)	Germanium(III) Chloride	Cl₃Ge (g)
GeCl ₃ (g)		GeCl ₃ (g)

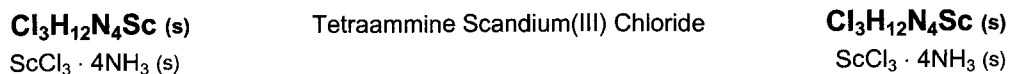
 $\Delta H_{298}^0 = -320.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 335.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 82.72 + 0.26 \cdot 10^{-3} \cdot T - 0.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₃HSi (g)	Trichlorosilane	Cl₃HSi (g)
SiHCl ₃ (g)		SiHCl ₃ (g)

mp = 145 K (-128 °C)

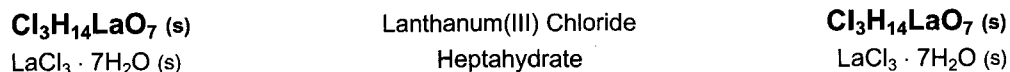
bp = 305 K (32 °C)

 $\Delta H_{298}^0 = -496.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 313.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 85.72 + 21.41 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} - 5.75 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1685 K) [4]



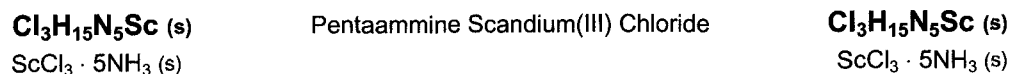
$$\Delta H_{298}^0 = -1414.2 \text{ kJ}\cdot\text{mol}^{-1} [93]$$

$$S_{298}^0 = [293] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [93]$$



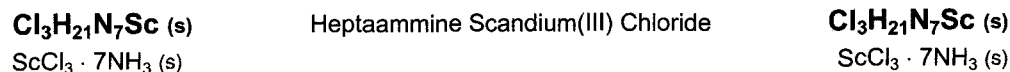
$$\Delta H_{298}^0 = -3178.6 \text{ kJ}\cdot\text{mol}^{-1} [96]$$

$$S_{298}^0 = 462.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [96]$$



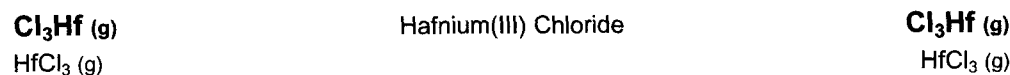
$$\Delta H_{298}^0 = -1514.6 \text{ kJ}\cdot\text{mol}^{-1} [93]$$

$$S_{298}^0 = [343] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [93]$$



$$\Delta H_{298}^0 = -1698.7 \text{ kJ}\cdot\text{mol}^{-1} [93]$$

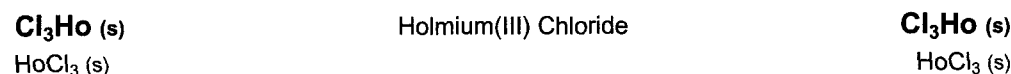
$$S_{298}^0 = 443.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [93]$$



$$\Delta H_{298}^0 = -644.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 352.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 76.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$



$$\text{mp} = 993 \text{ K} (720 \text{ }^\circ\text{C})$$

$$\text{bp} = 1780 \text{ K} (1507 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1005.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 102.81 + 4.59 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 993 \text{ K}) [4]$$

$$\lg(p, K) = -15.7 \cdot 10^3 \cdot T^{-1} - 2.79 \cdot \lg(T) + 19.19 (800 \dots 993 \text{ K}) [4]$$

{Reaction: evaporation as HoCl₃(g)}

Cl₃Ho (s) HoCl ₃ (s)	Holmium(III) Chloride	Cl₃Ho (s) HoCl ₃ (s)
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$$\Delta H_{993}^0 = -933.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{993}^0 = 277.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Ho (l) HoCl ₃ (l)	Holmium(III) Chloride	Cl₃Ho (l) HoCl ₃ (l)
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$$\Delta H_{993}^0 = -889.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{993}^0 = 321.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 143.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (993 \text{ K}) [4]$$

$$\lg(p, K) = -15.27 \cdot 10^3 \cdot T^{-1} - 7.18 \cdot \lg(T) + 31.92 (993 \dots 1780 \text{ K}) [4]$$

{Reaction: evaporation as HoCl₃(g)}

Cl₃Ho (g) HoCl ₃ (g)	Holmium(III) Chloride	Cl₃Ho (g) HoCl ₃ (g)
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$$\Delta H_{298}^0 = -712.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 363.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.68 + 1.74 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃In (s) InCl ₃ (s)	Indium(III) Chloride	Cl₃In (s) InCl ₃ (s)
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$$\text{mp} = 856 \text{ K} (583 \text{ }^\circ\text{C})$$

$$\text{bp} = 779 \text{ K} (506 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -537.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 141 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 78.66 + 55.65 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 779 \text{ K}) [4]$$

Cl₃In (g) InCl ₃ (g)	Indium(III) Chloride	Cl₃In (g) InCl ₃ (g)
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$$\Delta H_{298}^0 = -376.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 341.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.63 + 0.28 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -9.06 \cdot 10^3 \cdot T^{-1} - 3.96 \cdot \lg(T) + 22.33 (500 \dots 779 \text{ K}) [4]$$

{Reaction: evaporation as InCl₃(g)}

Cl₃Ir (s)	Iridium(III) Chloride	Cl₃Ir (s)
IrCl ₃ (s)		IrCl ₃ (s)

$\Delta H_{298}^0 = -256.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 116.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 84.94 + 18.83 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1041 K) [4]	
$\lg(p,K) = -9.15 \cdot 10^3 \cdot T^{-1} - 1.24 \cdot \lg(T) + 12.53$ (600 ... 1041 K) [4]	
{Reaction: decomposition IrCl ₃ (s) = Ir(s) + 3/2Cl ₂ (g)}	

Cl₃KMg (s)	Potassium Magnesium Chloride	Cl₃KMg (s)
KCl · MgCl ₂ (s)		KCl · MgCl ₂ (s)

$\Delta H_{298}^0 = -1088 \text{ kJ}\cdot\text{mol}^{-1}$ [206]	$S_{298}^0 = [172.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [211]
$C_p^0 = [122.86] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

Cl₃La (s)	Lanthanum(III) Chloride	Cl₃La (s)
LaCl ₃ (s)		LaCl ₃ (s)

mp = 1131 K (858 °C)	bp = 2045 K (1772 °C)
$\Delta H_{298}^0 = -1071.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 137.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 94.13 + 30.43 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1131 K) [4]	
$\lg(p,K) = -18.84 \cdot 10^3 \cdot T^{-1} - 5.04 \cdot \lg(T) + 27.35$ (900 ... 1131 K) [4]	
{Reaction: evaporation as LaCl ₃ (g)}	

Cl₃La (s)	Lanthanum(III) Chloride	Cl₃La (s)
LaCl ₃ (s)		LaCl ₃ (s)

$\Delta H_{1131}^0 = -975.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1131}^0 = 286.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃La (l)	Lanthanum(III) Chloride	Cl₃La (l)
LaCl ₃ (l)		LaCl ₃ (l)

$\Delta H_{1131}^0 = -917.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1131}^0 = 337.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 157.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1131 K) [4]	
$\lg(p,K) = -17.75 \cdot 10^3 \cdot T^{-1} - 9 \cdot \lg(T) + 38.48$ (1131 ... 2045 K) [4]	
{Reaction: evaporation as LaCl ₃ (g)}	

Cl₃La (g)	Lanthanum(III) Chloride	Cl₃La (g)
LaCl ₃ (g)		LaCl ₃ (g)

$$\Delta H_{298}^0 = -730.3 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 364.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.89 + 0.16 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2045 \text{ K}) [4]$$

Cl₃Li₃ (g)	Lithium Chloride	Cl₃Li₃ (g)
(LiCl) ₃ (g)		(LiCl) ₃ (g)

$$\Delta H_{298}^0 = -962.3 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 335.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 126.9 + 3.8 \cdot 10^{-3} \cdot T - 2.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -10.25 \cdot 10^3 \cdot T^{-1} - 2.64 \cdot \lg(T) + 11.13 (900 \dots 1633 \text{ K}) [4]$$

{Reaction: evaporation of LiCl(l)}

Cl₃Lu (s)	Lutetium(III) Chloride	Cl₃Lu (s)
LuCl ₃ (s)		LuCl ₃ (s)

$$\Delta H_{298}^0 = -987.1 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1} [266] \qquad S_{298}^0 = [148.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [267]$$

Cl₃Lu (g)	Lutetium(III) Chloride	Cl₃Lu (g)
LuCl ₃ (g)		LuCl ₃ (g)

$$\Delta H_{298}^0 = -626.3 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 352.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.84 + 0.19 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃MgNa (s)	Sodium Magnesium Chloride	Cl₃MgNa (s)
NaCl · MgCl ₂ (s)		NaCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1053 \text{ kJ}\cdot\text{mol}^{-1} [206] \qquad S_{298}^0 = [161.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [219]$$

$$C_p^0 = [121.75] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Cl₃MgRb (s)	Rubidium Magnesium Chloride	Cl₃MgRb (s)
RbCl · MgCl ₂ (s)		RbCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1095 \text{ kJ}\cdot\text{mol}^{-1} [206] \qquad S_{298}^0 = [184.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [215]$$

$$C_p^0 = [122.64] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Cl₃Mo (s)	Molybdenum(III) Chloride	Cl₃Mo (s)
MoCl ₃ (s)		MoCl ₃ (s)

$$\Delta H_{298}^0 = -428.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 124.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = -111.42 + 471.56 \cdot 10^{-3} \cdot T + 5.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 926 \text{ K}) [4]$$

Cl₃Mo (g)	Molybdenum(III) Chloride	Cl₃Mo (g)
MoCl ₃ (g)		MoCl ₃ (g)

$$\Delta H_{298}^0 = -149.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 332.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.06 + 2.33 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃NaSn (g)	Sodium Tin Chloride	Cl₃NaSn (g)
NaSnCl ₃ (g)		NaSnCl ₃ (g)

$$\Delta H_{298}^0 = -576.3 \text{ kJ}\cdot\text{mol}^{-1} [158, 8]$$

$$S_{298}^0 = 382.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [158, 8]$$

Cl₃Nb (s)	Niobium(III) Chloride	Cl₃Nb (s)
NbCl ₃ (s)		NbCl ₃ (s)

$$\Delta H_{298}^0 = -581.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 147.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 100.42 + 16.74 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 700 \text{ K}) [4]$$

Cl₃NbO (s)	Niobium(V) Chloride Oxide	Cl₃NbO (s)
NbOCl ₃ (s)		NbOCl ₃ (s)

$$\Delta H_{298}^0 = -880.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$\text{bp} = 607 \text{ K} (334 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 142 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 133.47 - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 607 \text{ K}) [4]$$

$$\lg(p, K) = -7.08 \cdot 10^3 \cdot T^{-1} - 2.82 \cdot \lg(T) + 19.52 (400 \dots 607 \text{ K}) [4]$$

{Reaction: evaporation}

Cl₃NbO (g)	Niobium(V) Chloride Oxide	Cl₃NbO (g)
NbOCl ₃ (g)		NbOCl ₃ (g)

$$\Delta H_{298}^0 = -752.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 358.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 107.95 - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃Nd (s)	Neodymium(III) Chloride	Cl₃Nd (s)
NdCl ₃ (s)		NdCl ₃ (s)

mp = 1032 K (759 °C)

bp = 1976 K (1703 °C)

 $\Delta H_{298}^0 = -1041.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 153.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 85.63 + 45.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1032 K) [4] $\lg(p, K) = -17.86 \cdot 10^3 \cdot T^{-1} - 4.9 \cdot \lg(T) + 26.56$ (900 ... 1032 K) [4]{Reaction: evaporation as NdCl₃(g)}

Cl₃Nd (s)	Neodymium(III) Chloride	Cl₃Nd (s)
NdCl ₃ (s)		NdCl ₃ (s)

 $\Delta H_{1032}^0 = -956.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1032}^0 = 293.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₃Nd (l)	Neodymium(III) Chloride	Cl₃Nd (l)
NdCl ₃ (l)		NdCl ₃ (l)

 $\Delta H_{1032}^0 = -906.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1032}^0 = 341.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1032 K) [4] $\lg(p, K) = -16.11 \cdot 10^3 \cdot T^{-1} - 6.9 \cdot \lg(T) + 30.89$ (1032 ... 1976 K) [4]{Reaction: evaporation as NdCl₃(g)}

Cl₃Nd (g)	Neodymium(III) Chloride	Cl₃Nd (g)
NdCl ₃ (g)		NdCl ₃ (g)

 $\Delta H_{298}^0 = -719.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 374.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 83.39 + 3.99 \cdot 10^{-3} \cdot T - 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₃Np (s)	Neptunium(III) Chloride	Cl₃Np (s)
NpCl ₃ (s)		NpCl ₃ (s)

 $\Delta H_{298}^0 = -903.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 160.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 101.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Cl₃OP (l) POCl ₃ (l)	Phosphoryl Chloride	Cl₃OP (l) POCl ₃ (l)
mp = 275 K (2 °C)		bp = 381 K (108 °C)
$\Delta H_{298}^0 = -597.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 222.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 138.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Cl₃OP (g) POCl ₃ (g)	Phosphoryl Chloride	Cl₃OP (g) POCl ₃ (g)
$\Delta H_{298}^0 = -559.8 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 325.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.9 + 2.61 \cdot 10^{-3} \cdot T - 1.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₃OTa (s) TaOCl ₃ (s)	Tantalum(V) Chloride Oxide	Cl₃OTa (s) TaOCl ₃ (s)
$\Delta H_{298}^0 = -951.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 139.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.47 - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		
Cl₃OTa (g) TaOCl ₃ (g)	Tantalum(V) Chloride Oxide	Cl₃OTa (g) TaOCl ₃ (g)
$\Delta H_{298}^0 = -781.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 361.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.95 - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₃OU (s) UOCl ₃ (s)	Uranium(V) Chloride Oxide	Cl₃OU (s) UOCl ₃ (s)
$\Delta H_{298}^0 = -1151.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 170.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 122.59 + 20.92 \cdot 10^{-3} \cdot T - 1.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
Cl₃OV (l) VOCl ₃ (l)	Vanadium(V) Chloride Oxide	Cl₃OV (l) VOCl ₃ (l)
$\Delta H_{298}^0 = -735.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 241.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 150.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -2.9 \cdot 10^3 \cdot T^{-1} - 6.67 \cdot \lg(T) + 24.61$ (298 ... 400 K) [4]		
{Reaction: evaporation}		

Cl₃OV (g) VOCl ₃ (g)	Vanadium(V) Chloride Oxide	Cl₃OV (g) VOCl ₃ (g)
$\Delta H_{298}^0 = -696.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 342.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.99 - 1.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₃O₄U₂ (s) U ₂ O ₄ Cl ₃ (s)	Uranium Chloride Oxide	Cl₃O₄U₂ (s) U ₂ O ₄ Cl ₃ (s)
$\Delta H_{298}^0 = -2404.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 225.94 + 35.56 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
Cl₃P (l) PCl ₃ (l)	Phosphorus(III) Chloride	Cl₃P (l) PCl ₃ (l)
		bp = 348 K (75 °C)
$\Delta H_{298}^0 = -319.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 217.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 348 K) [4]		
Cl₃P (g) PCl ₃ (g)	Phosphorus(III) Chloride	Cl₃P (g) PCl ₃ (g)
$\Delta H_{298}^0 = -288.7 \pm 5.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 311.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.37 + 0.41 \cdot 10^{-3} \cdot T - 1.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₃PS (g) SPCl ₃ (g)	Phosphorus Sulfide Chloride	Cl₃PS (g) SPCl ₃ (g)
$\Delta H_{298}^0 = -380.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 337.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 89.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₃Pm (s) PmCl ₃ (s)	Promethium(III) Chloride	Cl₃Pm (s) PmCl ₃ (s)
$\Delta H_{298}^0 = -1030 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [145.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]

Cl₃Pr (s)	Praseodymium(III) Chloride	Cl₃Pr (s)
PrCl ₃ (s)		PrCl ₃ (s)
mp = 1059 K (786 °C)		bp = 1982 K (1709 °C)
$\Delta H_{298}^0 = -1056.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 153.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 92.13 + 40.66 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1059 K) [4]		
$\lg(p,K) = -18.15 \cdot 10^3 \cdot T^{-1} - 5.39 \cdot \lg(T) + 28.1$ (900 ... 1059 K) [4]		
{Reaction: evaporation as PrCl ₃ (g)}		

Cl₃Pr (s)	Praseodymium(III) Chloride	Cl₃Pr (s)
PrCl ₃ (s)		PrCl ₃ (s)
$\Delta H_{1059}^0 = -966.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1059}^0 = 298.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₃Pr (l)	Praseodymium(III) Chloride	Cl₃Pr (l)
PrCl ₃ (l)		PrCl ₃ (l)
$\Delta H_{1059}^0 = -916.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1059}^0 = 346.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1059 K) [4]		
$\lg(p,K) = -15.44 \cdot 10^3 \cdot T^{-1} - 5.3 \cdot \lg(T) + 25.27$ (1059 ... 1982 K) [4]		
{Reaction: evaporation as PrCl ₃ (g)}		

Cl₃Pr (g)	Praseodymium(III) Chloride	Cl₃Pr (g)
PrCl ₃ (g)		PrCl ₃ (g)
$\Delta H_{298}^0 = -731 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 374 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.84 + 5.41 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Cl₃Pt (s)	Platinum(III) Chloride	Cl₃Pt (s)
PtCl ₃ (s)		PtCl ₃ (s)
$\Delta H_{298}^0 = -176.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 141.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 121.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

Cl₃Pt (g)	Platinum(III) Chloride	Cl₃Pt (g)
PtCl ₃ (g)		PtCl ₃ (g)
$\Delta H_{298}^0 = 43.9 \text{ kJ}\cdot\text{mol}^{-1}$ [74]		$S_{298}^0 = 336.8 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [74]

Cl₃Pu (s)	Plutonium(III) Chloride	Cl₃Pu (s)
PuCl ₃ (s)		PuCl ₃ (s)
mp = 1033 K (760 °C)		bp = 2065 K (1792 °C)
$\Delta H_{298}^0 = -961.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.12 + 27.1 \cdot 10^{-3} \cdot T + 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1033 K) [4]		
$\lg(p,K) = -18.27 \cdot 10^3 \cdot T^{-1} - 5.34 \cdot \lg(T) + 29.73$ (800 ... 1033 K) [4]		
{Reaction: evaporation as PuCl ₃ (g)}		

Cl₃Pu (s)	Plutonium(III) Chloride	Cl₃Pu (s)
PuCl ₃ (s)		PuCl ₃ (s)
$\Delta H_{1033}^0 = -878.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1033}^0 = 296.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₃Pu (l)	Plutonium(III) Chloride	Cl₃Pu (l)
PuCl ₃ (l)		PuCl ₃ (l)
$\Delta H_{1033}^0 = -815.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1033}^0 = 357.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1033 K) [4]		
$\lg(p,K) = -15.49 \cdot 10^3 \cdot T^{-1} - 6.45 \cdot \lg(T) + 28.88$ (1033 ... 2065 K) [4]		
{Reaction: evaporation as PuCl ₃ (g)}		

Cl₃Re (s)	Rhenium(III) Chloride	Cl₃Re (s)
ReCl ₃ (s)		ReCl ₃ (s)
$\Delta H_{298}^0 = -264 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 123.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 105.48 + 27.61 \cdot 10^{-3} \cdot T - 1.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 700 K) [4]		

Cl₃Re (g)	Rhenium(III) Chloride	Cl₃Re (g)
ReCl ₃ (g)		ReCl ₃ (g)
$\Delta H_{298}^0 = -200 \pm 7.1 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 355.6 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 75.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

Cl₃Rh (s)	Rhodium(III) Chloride	Cl₃Rh (s)
RhCl ₃ (s)		RhCl ₃ (s)

$\Delta H_{298}^0 = -274.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 122.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 105.44 + 27.61 \cdot 10^{-3} \cdot T - 1.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1221 K) [4]	
$\lg(p, K) = -10.15 \cdot 10^3 \cdot T^{-1} - 3.26 \cdot \lg(T) + 18.38$ (600 ... 1221 K) [4]	
{Reaction: decomposition $2/3\text{RhCl}_3(\text{s}) = 2/3\text{Rh}(\text{s}) + \text{Cl}_2(\text{g})$ }	

Cl₃Rh (g)	Rhodium(III) Chloride	Cl₃Rh (g)
RhCl ₃ (g)		RhCl ₃ (g)

$\Delta H_{298}^0 = 66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 373.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

Cl₃Ru (s)	Ruthenium(III) Chloride	Cl₃Ru (s)
RuCl ₃ (s)		RuCl ₃ (s)

$\Delta H_{298}^0 = -24.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 121.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 115.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]	
$\lg(p, K) = -8.87 \cdot 10^3 \cdot T^{-1} - 2.59 \cdot \lg(T) + 15.8$ (500 ... 1123 K) [4]	
{Reaction: decomposition $2/3\text{RuCl}_3(\text{s}) = 2/3\text{Ru}(\text{s}) + \text{Cl}_2(\text{g})$ }	

Cl₃Ru (g)	Ruthenium(III) Chloride	Cl₃Ru (g)
RuCl ₃ (g)		RuCl ₃ (g)

$\Delta H_{298}^0 = 56.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 397.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 56.9 + 7.66 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]	
$\lg(p, K) = -16.5 \cdot 10^3 \cdot T^{-1} - 6.15 \cdot \lg(T) + 32.05$ (800 ... 1123 K) [4]	
{Reaction: evaporation of RuCl ₃ (s)}	

Cl₃Sb (s)	Antimony(III) Chloride	Cl₃Sb (s)
SbCl ₃ (s)		SbCl ₃ (s)

mp = 346 K (73 °C)	bp = 496 K (223 °C)
$\Delta H_{298}^0 = -382.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 40.17 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 346 K) [4]	
$\lg(p, K) = -4.16 \cdot 10^3 \cdot T^{-1} - 4.26 \cdot \lg(T) + 20.5$ (298 ... 346 K) [4]	
{Reaction: evaporation as SbCl ₃ (g)}	

Cl₃Sb (s) SbCl ₃ (s)	Antimony(III) Chloride	Cl₃Sb (s) SbCl ₃ (s)
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$$\Delta H_{346}^0 = -376.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{346}^0 = 200.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Sb (l) SbCl ₃ (l)	Antimony(III) Chloride	Cl₃Sb (l) SbCl ₃ (l)
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$$\Delta H_{346}^0 = -363.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{346}^0 = 238.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 123.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (346 \text{ K}) [4]$$

Cl₃Sb (g) SbCl ₃ (g)	Antimony(III) Chloride	Cl₃Sb (g) SbCl ₃ (g)
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$$\Delta H_{298}^0 = -313.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 339.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.38 + 0.7 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃Sc (s) ScCl ₃ (s)	Scandium(III) Chloride	Cl₃Sc (s) ScCl ₃ (s)
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$$\text{mp} = 1240 \text{ K} (967 \text{ }^\circ\text{C})$$

$$\text{bp} = 1359 \text{ K} (1086 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -918.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 95.65 + 15.4 \cdot 10^{-3} \cdot T - 0.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1240 \text{ K}) [4]$$

$$\lg(p, K) = -13.49 \cdot 10^3 \cdot T^{-1} - 3.24 \cdot \lg(T) + 20.35 (700 \dots 1240 \text{ K}) [4]$$

{Reaction: evaporation as ScCl₃(g)}

Cl₃Sc (s) ScCl ₃ (s)	Scandium(III) Chloride	Cl₃Sc (s) ScCl ₃ (s)
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$$\Delta H_{1240}^0 = -819.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1240}^0 = 268.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Sc (l) ScCl ₃ (l)	Scandium(III) Chloride	Cl₃Sc (l) ScCl ₃ (l)
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$$\Delta H_{1240}^0 = -752.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1240}^0 = 322.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 143.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1240 \text{ K}) [4]$$

Cl₃Sc (g)	Scandium(III) Chloride	Cl₃Sc (g)
ScCl ₃ (g)		ScCl ₃ (g)

$\Delta H_{298}^0 = -669.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 326.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.97 + 0.63 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃Si (g)	Silicon(III) Chloride	Cl₃Si (g)
SiCl ₃ (g)		SiCl ₃ (g)

$\Delta H_{298}^0 = -390.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 318.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.39 + 1.05 \cdot 10^{-3} \cdot T - 0.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃Sm (s)	Samarium(III) Chloride	Cl₃Sm (s)
SmCl ₃ (s)		SmCl ₃ (s)

mp = 950 K (677 °C)	
$\Delta H_{298}^0 = -1025.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 147.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 98.24 + 24.69 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 950 K) [4]	

Cl₃Sm (s)	Samarium(III) Chloride	Cl₃Sm (s)
SmCl ₃ (s)		SmCl ₃ (s)

$\Delta H_{950}^0 = -953.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{950}^0 = 274.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Sm (l)	Samarium(III) Chloride	Cl₃Sm (l)
SmCl ₃ (l)		SmCl ₃ (l)

$\Delta H_{950}^0 = -907.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{950}^0 = 323.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 142.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (950 K) [4]	

Cl₃Ta (s)	Tantalum(III) Chloride	Cl₃Ta (s)
TaCl ₃ (s)		TaCl ₃ (s)

$\Delta H_{298}^0 = -550.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 96.23 + 16.32 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 912 K) [4]	

Cl₃Ta (g)	Tantalum(III) Chloride	Cl₃Ta (g)
TaCl ₃ (g)		TaCl ₃ (g)

$\Delta H_{298}^0 = -322.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 346 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.27 + 0.64 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃Tb (s)	Terbium(III) Chloride	Cl₃Tb (s)
TbCl ₃ (s)	alpha	TbCl ₃ (s)

mp = 855 K (582 °C)	bp = 1869 K (1596 °C)
$\Delta H_{298}^0 = -997 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 153.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 92.71 + 29.2 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 783 K) [4]	

Cl₃Tb (s)	Terbium(III) Chloride	Cl₃Tb (s)
TbCl ₃ (s)	alpha	TbCl ₃ (s)

$\Delta H_{783}^0 = -945.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{783}^0 = 255.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Tb (s)	Terbium(III) Chloride	Cl₃Tb (s)
TbCl ₃ (s)	beta	TbCl ₃ (s)

$\Delta H_{783}^0 = -931.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{783}^0 = 273.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (783 K) [4]	

Cl₃Tb (s)	Terbium(III) Chloride	Cl₃Tb (s)
TbCl ₃ (s)	beta	TbCl ₃ (s)

$\Delta H_{855}^0 = -922.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{855}^0 = 284.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Tb (l)	Terbium(III) Chloride	Cl₃Tb (l)
TbCl ₃ (l)		TbCl ₃ (l)

$\Delta H_{855}^0 = -897.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{855}^0 = 313.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 144.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (855 K) [4]	
$\lg(p, K) = -15.66 \cdot 10^3 \cdot T^{-1} - 6.79 \cdot \lg(T) + 30.6$ (855 ... 1869 K) [4]	
{Reaction: evaporation as TbCl ₃ (g)}	

Cl₃Tb (g)	Terbium(III) Chloride	Cl₃Tb (g)
TbCl ₃ (g)		TbCl ₃ (g)

$\Delta H_{298}^0 = -691.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 375.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.87 + 4.77 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃Ti (s)	Titanium(III) Chloride	Cl₃Ti (s)
TiCl ₃ (s)		TiCl ₃ (s)

$\Delta H_{298}^0 = -721.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 139.8 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 95.81 + 11.06 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1017 K) [4]	

Cl₃Ti (g)	Titanium(III) Chloride	Cl₃Ti (g)
TiCl ₃ (g)		TiCl ₃ (g)

$\Delta H_{298}^0 = -539.3 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 316.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 87.26 - 0.71 \cdot 10^{-3} \cdot T - 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃Tl (s)	Thallium(III) Chloride	Cl₃Tl (s)
TlCl ₃ (s)		TlCl ₃ (s)

$\Delta H_{298}^0 = -315.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 152.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

Cl₃Tm (s)	Thulium(III) Chloride	Cl₃Tm (s)
TmCl ₃ (s)		TmCl ₃ (s)

mp = 1101 K (828 °C)	bp = 1800 K (1527 °C)
$\Delta H_{298}^0 = -988.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 95.6 + 11.72 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1101 K) [4]	
$\lg(\rho, K) = -15.99 \cdot 10^3 \cdot T^{-1} - 2.9 \cdot \lg(T) + 19.39$ (900 ... 1101 K) [4]	
{Reaction: evaporation as TmCl ₃ (g)}	

Cl₃Tm (s)	Thulium(III) Chloride	Cl₃Tm (s)
TmCl ₃ (s)		TmCl ₃ (s)

$\Delta H_{1101}^0 = -905 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1101}^0 = 292.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Tm (l)	Thulium(III) Chloride	Cl₃Tm (l)
TmCl ₃ (l)		TmCl ₃ (l)

$$\Delta H_{1101}^0 = -859.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1101}^0 = 333.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 148.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1101 \text{ K}) [4]$$

$$\lg(p, K) = -16.01 \cdot 10^3 \cdot T^{-1} - 7.9 \cdot \lg(T) + 34.61 (1101 \dots 1800 \text{ K}) [4]$$

{Reaction: evaporation as TmCl₃(g)}

Cl₃Tm (g)	Thulium(III) Chloride	Cl₃Tm (g)
TmCl ₃ (g)		TmCl ₃ (g)

$$\Delta H_{298}^0 = -691.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 364.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.88 + 0.16 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃U (s)	Uranium(III) Chloride	Cl₃U (s)
UCl ₃ (s)		UCl ₃ (s)

$$\text{mp} = 1114 \text{ K} (841 \text{ }^\circ\text{C})$$

$$\text{bp} = 1851 \text{ K} (1578 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -861.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 87.78 + 31.13 \cdot 10^{-3} \cdot T + 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1114 \text{ K}) [4]$$

$$\lg(p, K) = -15.54 \cdot 10^3 \cdot T^{-1} - 4.31 \cdot \lg(T) + 23.44 (800 \dots 1114 \text{ K}) [4]$$

{Reaction: evaporation as UCl₃(g)}

Cl₃U (s)	Uranium(III) Chloride	Cl₃U (s)
UCl ₃ (s)		UCl ₃ (s)

$$\Delta H_{1114}^0 = -771.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1114}^0 = 302.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃U (l)	Uranium(III) Chloride	Cl₃U (l)
UCl ₃ (l)		UCl ₃ (l)

$$\Delta H_{1114}^0 = -722.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1114}^0 = 346.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 129.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1114 \text{ K}) [4]$$

$$\lg(p, K) = -13.51 \cdot 10^3 \cdot T^{-1} - 5.35 \cdot \lg(T) + 24.78 (1114 \dots 1851 \text{ K}) [4]$$

{Reaction: evaporation as UCl₃(g)}

Cl₃U (g)	Uranium(III) Chloride	Cl₃U (g)
UCl ₃ (g)		UCl ₃ (g)

$\Delta H_{298}^0 = -580.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 357 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.06 + 2.33 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₃V (s)	Vanadium(III) Chloride	Cl₃V (s)
VCl ₃ (s)		VCl ₃ (s)

$\Delta H_{298}^0 = -581.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 131 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.23 + 16.4 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 916 K) [4]	

Cl₃V (g)	Vanadium(III) Chloride	Cl₃V (g)
VCl ₃ (g)		VCl ₃ (g)

$\Delta H_{298}^0 = -380.7 \text{ kJ}\cdot\text{mol}^{-1}$ [62]	$S_{298}^0 = 359.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [62]
$C_p^0 = 83.81 + 1.43 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [62]	

Cl₃Y (s)	Yttrium(III) Chloride	Cl₃Y (s)
YCl ₃ (s)		YCl ₃ (s)

mp = 994 K (721 °C)	bp = 1757 K (1484 °C)
$\Delta H_{298}^0 = -1000 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 104.71 + 3.22 \cdot 10^{-3} \cdot T - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 994 K) [4]	

Cl₃Y (s)	Yttrium(III) Chloride	Cl₃Y (s)
YCl ₃ (s)		YCl ₃ (s)

$\Delta H_{994}^0 = -928.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{994}^0 = 262.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₃Y (l)	Yttrium(III) Chloride	Cl₃Y (l)
YCl ₃ (l)		YCl ₃ (l)

$\Delta H_{994}^0 = -897 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{994}^0 = 294 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (994 K) [4]	
$\lg(p, K) = -17.16 \cdot 10^3 \cdot T^{-1} - 8.8 \cdot \lg(T) + 38.32$ (994 ... 1757 K) [4]	
{Reaction: evaporation as YCl ₃ (g)}	

Cl₃Y (g)	Yttrium(III) Chloride	Cl₃Y (g)
YCl ₃ (g)		YCl ₃ (g)

$$\Delta H_{298}^0 = -698.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 351.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 83.68 - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃Yb (s)	Ytterbium(III) Chloride	Cl₃Yb (s)
YbCl ₃ (s)		YbCl ₃ (s)

$$\text{mp} = 1148 \text{ K (875 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -961.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 135.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 94.68 + 9.33 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1148 \text{ K}) [4]$$

$$\lg(p, K) = -17.27 \cdot 10^3 \cdot T^{-1} - 2.58 \cdot \lg(T) + 19.98 (900 \dots 1148 \text{ K}) [4]$$

{Reaction: evaporation as YbCl₃(g)}

Cl₃Yb (s)	Ytterbium(III) Chloride	Cl₃Yb (s)
YbCl ₃ (s)		YbCl ₃ (s)

$$\Delta H_{1148}^0 = -875.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1148}^0 = 269.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₃Yb (l)	Ytterbium(III) Chloride	Cl₃Yb (l)
YbCl ₃ (l)		YbCl ₃ (l)

$$\Delta H_{1148}^0 = -811.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1148}^0 = 325.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 121.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1148 \text{ K}) [4]$$

$$\lg(p, K) = -14.97 \cdot 10^3 \cdot T^{-1} - 4.64 \cdot \lg(T) + 24.28 (1148 \dots 1300 \text{ K}) [4]$$

{Reaction: evaporation as YbCl₃(g)}

Cl₃Yb (g)	Ytterbium(III) Chloride	Cl₃Yb (g)
YbCl ₃ (g)		YbCl ₃ (g)

$$\Delta H_{298}^0 = -638.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 370 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.89 + 0.15 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₃Zr (s)	Zirconium(III) Chloride	Cl₃Zr (s)
ZrCl ₃ (s)		ZrCl ₃ (s)

$$\Delta H_{298}^0 = -714.2 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 145.8 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 99.13 + 13.58 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 714 K) [4]}$$

Cl₃Zr (g)	Zirconium(III) Chloride	Cl₃Zr (g)
ZrCl ₃ (g)		ZrCl ₃ (g)

$$\Delta H_{298}^0 = -524.3 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 339.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 83.35 + 3.16 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl_{3.13}Nb (s)	Niobium Chloride	Cl_{3.13}Nb (s)
NbCl _{3.13} (s)		NbCl _{3.13} (s)

$$\Delta H_{298}^0 = -605.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 151.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

Cl₄Co₂ (g)	Cobalt(II) Chloride	Cl₄Co₂ (g)
(CoCl ₂) ₂ (g)		(CoCl ₂) ₂ (g)

$$\Delta H_{298}^0 = -350.6 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 450.4 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 131.47 + 2.78 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -15.15 \cdot 10^3 \cdot T^{-1} - 4.94 \cdot \lg(T) + 26.78 \text{ (700 ... 994 K) [4]}$$

{Reaction: evaporation of CoCl₂(s)}

Cl₄Cr (g)	Chromium(IV) Chloride	Cl₄Cr (g)
CrCl ₄ (g)		CrCl ₄ (g)

$$\Delta H_{298}^0 = -426.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 364.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 106.43 + 1.31 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₄Cs₂Mg (s)	Cesium Magnesium Chloride	Cl₄Cs₂Mg (s)
2CsCl · MgCl ₂ (s)		2CsCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1548 \text{ kJ}\cdot\text{mol}^{-1} \text{ [206]} \qquad S_{298}^0 = [291.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [209]}$$

$$C_p^0 = [176.32] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Cl₄FeNa (g)	Sodium Iron Chloride	Cl₄FeNa (g)
NaFeCl ₄ (g)		NaFeCl ₄ (g)

$$\Delta H_{298}^0 = -649.3 \text{ kJ}\cdot\text{mol}^{-1} [169, 8]$$

$$S_{298}^0 = 445.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [169, 8]$$

Cl₄Fe₂ (g)	Iron(II) Chloride	Cl₄Fe₂ (g)
(FeCl ₂) ₂ (g)		(FeCl ₂) ₂ (g)

$$\Delta H_{298}^0 = -431.4 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 464.4 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 130.87 + 2.7 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -13.91 \cdot 10^3 \cdot T^{-1} - 4.73 \cdot \lg(T) + 26.03 (700 \dots 950 \text{ K}) [4]$$

{Reaction: evaporation of FeCl₂(s)}

Cl₄Ga₂ (g)	Gallium Chloride	Cl₄Ga₂ (g)
Ga ₂ Cl ₄ (g)		Ga ₂ Cl ₄ (g)

$$\Delta H_{298}^0 = -570 \pm 15 \text{ kJ}\cdot\text{mol}^{-1} [262]$$

$$S_{298}^0 = 446.8 \pm 8.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [263]$$

$$C_p^0 = 107.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [263]$$

Cl₄Ge (l)	Germanium(IV) Chloride	Cl₄Ge (l)
GeCl ₄ (l)		GeCl ₄ (l)

$$\text{mp} = 223 \text{ K} (-50 \text{ }^\circ\text{C})$$

$$\text{bp} = 356 \text{ K} (83 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -531.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 245.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

Cl₄Ge (g)	Germanium(IV) Chloride	Cl₄Ge (g)
GeCl ₄ (g)		GeCl ₄ (g)

$$\Delta H_{298}^0 = -495.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 347.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 106.79 + 0.83 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₄Hf (s)	Hafnium(IV) Chloride	Cl₄Hf (s)
HfCl ₄ (s)		HfCl ₄ (s)

bp = 589 K (316 °C)

$$\Delta H_{298}^0 = -990.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 190.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 129.17 + 3.87 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 589 K) [4]}$$

$$\lg(p, K) = -5.82 \cdot 10^3 \cdot T^{-1} - 2.71 \cdot \lg(T) + 17.39 \text{ (298 ... 589 K) [4]}$$

{Reaction: evaporation as HfCl₄(g)}

Cl₄Hf (g)	Hafnium(IV) Chloride	Cl₄Hf (g)
HfCl ₄ (g)		HfCl ₄ (g)

$$\Delta H_{298}^0 = -885.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 372.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 106.82 + 1.18 \cdot 10^{-3} \cdot T - 0.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₄In₂ (g)	Indium Chloride	Cl₄In₂ (g)
In ₂ Cl ₄ (g)		In ₂ Cl ₄ (g)

$$\Delta H_{298}^0 = -573.2 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [258]}$$

$$S_{298}^0 = [443.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [259]}$$

Cl₄K₂Mg (s)	Potassium Magnesium Chloride	Cl₄K₂Mg (s)
2KCl · MgCl ₂ (s)		2KCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1523 \text{ kJ}\cdot\text{mol}^{-1} \text{ [206]}$$

$$S_{298}^0 = [254.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [213]}$$

$$C_p^0 = [174.44] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Cl₄MgNa₂ (s)	Sodium Magnesium Chloride	Cl₄MgNa₂ (s)
2NaCl · MgCl ₂ (s)		2NaCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1464 \text{ kJ}\cdot\text{mol}^{-1} \text{ [206]}$$

$$S_{298}^0 = [233.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [220]}$$

$$C_p^0 = [172.22] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Cl₄MgRb₂ (s)	Rubidium Magnesium Chloride	Cl₄MgRb₂ (s)
2RbCl · MgCl ₂ (s)		2RbCl · MgCl ₂ (s)

$$\Delta H_{298}^0 = -1530 \text{ kJ}\cdot\text{mol}^{-1} \text{ [206]}$$

$$S_{298}^0 = [279.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [217]}$$

$$C_p^0 = [174.00] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Cl₄Mg₂ (g) (MgCl ₂) ₂ (g)	Magnesium(II) Chloride	Cl₄Mg₂ (g) (MgCl ₂) ₂ (g)
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$$\Delta H_{298}^0 = -954.4 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 418.8 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 132.3 + 0.47 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -14.94 \cdot 10^3 \cdot T^{-1} - 6.4 \cdot \lg(T) + 28.44 (980 \dots 1634 \text{ K}) [4]$$

{Reaction: evaporation of MgCl₂(l)}

Cl₄Mn₂ (g) Mn ₂ Cl ₄ (g)	Manganese(II) Chloride	Cl₄Mn₂ (g) Mn ₂ Cl ₄ (g)
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$$\Delta H_{298}^0 = -698 \text{ kJ}\cdot\text{mol}^{-1} [58] \qquad S_{298}^0 = 456.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [58]$$

Cl₄Mo (s) MoCl ₄ (s)	Molybdenum(IV) Chloride	Cl₄Mo (s) MoCl ₄ (s)
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$$\Delta H_{298}^0 = -494.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 182.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 108.08 + 54.77 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 603 \text{ K}) [4]$$

$$\lg(p, K) = -6.28 \cdot 10^3 \cdot T^{-1} - 3.73 \cdot \lg(T) + 20.79 (400 \dots 603 \text{ K}) [4]$$

{Reaction: evaporation as MoCl₄(g)}

Cl₄Mo (s) MoCl ₄ (s)	Molybdenum(IV) Chloride	Cl₄Mo (s) MoCl ₄ (s)
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$$\Delta H_{603}^0 = -454.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{603}^0 = 275.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₄Mo (g) MoCl ₄ (g)	Molybdenum(IV) Chloride	Cl₄Mo (g) MoCl ₄ (g)
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$$\Delta H_{603}^0 = -352.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{603}^0 = 444.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 107.94 - 0.42 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} + 0.28 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (603 \text{ K}) [4]$$

Cl₄Mo (g) MoCl ₄ (g)	Molybdenum(IV) Chloride	Cl₄Mo (g) MoCl ₄ (g)
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$$\Delta H_{298}^0 = -384.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 371.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 98.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₄Nb (s) NbCl ₄ (s)	Niobium(IV) Chloride	Cl₄Nb (s) NbCl ₄ (s)
$\Delta H_{298}^0 = -694.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 133.47 - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 602 K) [4]		
Cl₄Nb (g) NbCl ₄ (g)	Niobium(IV) Chloride	Cl₄Nb (g) NbCl ₄ (g)
$\Delta H_{298}^0 = -561 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 355.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 98.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Cl₄Np (s) NpCl ₄ (s)	Neptunium(IV) Chloride	Cl₄Np (s) NpCl ₄ (s)
$\Delta H_{298}^0 = -987.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 199.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 120.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Cl₄ORe (g) ReOCl ₄ (g)	Rhenium Chloride Oxide	Cl₄ORe (g) ReOCl ₄ (g)
$\Delta H_{298}^0 = -405 \pm 28.9 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 384.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		
Cl₄OW (s) WOCl ₄ (s)	Tungsten(VI) Chloride Oxide	Cl₄OW (s) WOCl ₄ (s)
mp = 484 K (211 °C)		bp = 493 K (220 °C)
$\Delta H_{298}^0 = -671.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 172.8 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 115 + 104.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 484 K) [4]		
$\lg(p, K) = -5.79 \cdot 10^3 \cdot T^{-1} - 5.25 \cdot \lg(T) + 25.98$ (298 ... 484 K) [4]		
{Reaction: evaporation}		
Cl₄OW (l) WOCl ₄ (l)	Tungsten(VI) Chloride Oxide	Cl₄OW (l) WOCl ₄ (l)
$\Delta H_{298}^0 = -630.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 253.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Cl₄OW (g)	Tungsten(VI) Chloride Oxide	Cl₄OW (g)
WOCl ₄ (g)		WOCl ₄ (g)

$$\Delta H_{298}^0 = -573.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 377.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 128.84 + 1.85 \cdot 10^{-3} \cdot T - 2.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₄Pb (g)	Lead(IV) Chloride	Cl₄Pb (g)
PbCl ₄ (g)		PbCl ₄ (g)

$$\Delta H_{298}^0 = -553.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 381.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 107.83 + 0.29 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₄Pt (s)	Platinum(IV) Chloride	Cl₄Pt (s)
PtCl ₄ (s)		PtCl ₄ (s)

$$\Delta H_{298}^0 = -219.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 185.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

Cl₄Pu (g)	Plutonium(IV) Chloride	Cl₄Pu (g)
PuCl ₄ (g)		PuCl ₄ (g)

$$\Delta H_{298}^0 = -793.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 412.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 107.94 - 0.42 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₄Rh (g)	Rhodium(IV) Chloride	Cl₄Rh (g)
RhCl ₄ (g)		RhCl ₄ (g)

$$\Delta H_{298}^0 = -41.8 \text{ kJ}\cdot\text{mol}^{-1} [67] \qquad S_{298}^0 = [364.0] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [68]$$

$$C_p^0 = 95.81 - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [67]$$

Cl₄Ru (g)	Ruthenium(IV) Chloride	Cl₄Ru (g)
RuCl ₄ (g)		RuCl ₄ (g)

$$\Delta H_{298}^0 = -79.9 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 374.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 63.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₄Se (s)	Selenium(IV) Chloride	Cl₄Se (s)
SeCl ₄ (s)		SeCl ₄ (s)

mp = 578 K (305 °C)

$$\Delta H_{298}^0 = -188.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

$$\lg(p, K) = -4.39 \cdot 10^3 \cdot T^{-1} - 2.65 \cdot \lg(T) + 16.16 (298 \dots 468 \text{ K}) [4]$$

{Reaction: evaporation as SeCl₄(g)}

Cl₄Si (l)	Silicon(IV) Chloride	Cl₄Si (l)
SiCl ₄ (l)		SiCl ₄ (l)

mp = 204 K (-69 °C)

bp = 330 K (57 °C)

$$\Delta H_{298}^0 = -693.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 236.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

Cl₄Si (l)	Silicon(IV) Chloride	Cl₄Si (l)
SiCl ₄ (l)		SiCl ₄ (l)

$$\Delta H_{330}^0 = -688.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{330}^0 = 252.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Cl₄Si (g)	Silicon(IV) Chloride	Cl₄Si (g)
SiCl ₄ (g)		SiCl ₄ (g)

$$\Delta H_{330}^0 = -659.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{330}^0 = 340.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 106.53 + 0.75 \cdot 10^{-3} \cdot T - 1.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (330 \dots 2000 \text{ K}) [4]$$

Cl₄Si (g)	Silicon(IV) Chloride	Cl₄Si (g)
SiCl ₄ (g)		SiCl ₄ (g)

$$\Delta H_{298}^0 = -662.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 330.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 106.53 + 0.75 \cdot 10^{-3} \cdot T - 1.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Cl₄Sn (l) SnCl ₄ (l)	Tin(IV) Chloride	Cl₄Sn (l) SnCl ₄ (l)
mp = 240 K (-33 °C)		bp = 385 K (112 °C)
$\Delta H_{298}^0 = -511.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 258.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 91.49 + 247.47 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 382 K) [4]		
$\lg(p, K) = -3.26 \cdot 10^3 \cdot T^{-1} - 9.1 \cdot \lg(T) + 32.04$ (298 ... 382 K) [4]		
{Reaction: evaporation as SnCl ₄ (g)}		
Cl₄Sn (g) SnCl ₄ (g)	Tin(IV) Chloride	Cl₄Sn (g) SnCl ₄ (g)
$\Delta H_{298}^0 = -471.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 365 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 106.63 + 1.41 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₄Ta (s) TaCl ₄ (s)	Tantalum(IV) Chloride	Cl₄Ta (s) TaCl ₄ (s)
$\Delta H_{298}^0 = -707.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 133.47 - 1.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 559 K) [4]		
Cl₄Ta (g) TaCl ₄ (g)	Tantalum(IV) Chloride	Cl₄Ta (g) TaCl ₄ (g)
$\Delta H_{298}^0 = -574.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 377.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 107.14 + 0.7 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₄Te (s) TeCl ₄ (s)	Tellurium(IV) Chloride	Cl₄Te (s) TeCl ₄ (s)
mp = 497 K (224 °C)		bp = 687 K (414 °C)
$\Delta H_{298}^0 = -323.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 203 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 138.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -6.85 \cdot 10^3 \cdot T^{-1} - 5.35 \cdot \lg(T) + 25.92$ (400 ... 497 K) [4]		
{Reaction: evaporation}		

Cl₄Te (s) TeCl ₄ (s)	Tellurium(IV) Chloride	Cl₄Te (s) TeCl ₄ (s)
$\Delta H_{497}^0 = -296.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{497}^0 = 273.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₄Te (l) TeCl ₄ (l)	Tellurium(IV) Chloride	Cl₄Te (l) TeCl ₄ (l)
$\Delta H_{497}^0 = -277.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{497}^0 = 311.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 230.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (497 K) [4]		
$\lg(p, K) = -8.21 \cdot 10^3 \cdot T^{-1} - 16.24 \cdot \lg(T) + 58.03$ (497 ... 687 K) [4]		
{Reaction: evaporation}		
Cl₄Te (g) TeCl ₄ (g)	Tellurium(IV) Chloride	Cl₄Te (g) TeCl ₄ (g)
$\Delta H_{298}^0 = -205.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 401.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.73 + 0.16 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₄Th (s) ThCl ₄ (s)	Thorium(IV) Chloride alpha	Cl₄Th (s) ThCl ₄ (s)
mp = 1042 K (769 °C)		bp = 1224 K (951 °C)
$\Delta H_{298}^0 = -1186.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 190.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 120.32 + 23.26 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 679 K) [4]		
Cl₄Th (s) ThCl ₄ (s)	Thorium(IV) Chloride alpha	Cl₄Th (s) ThCl ₄ (s)
$\Delta H_{679}^0 = -1137.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{679}^0 = 295.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 134.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (679 K) [4]		

Cl₄Th (s)	Thorium(IV) Chloride	Cl₄Th (s)
ThCl ₄ (s)	beta	ThCl ₄ (s)

$$\Delta H_{679}^0 = -1132.8 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{679}^0 = 302.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 120.12 + 23.39 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (679 \dots 1042 \text{ K}) [4]$$

$$\lg(p,K) = -11.86 \cdot 10^3 \cdot T^{-1} - 3.88 \cdot \lg(T) + 22.15 (679 \dots 1042 \text{ K}) [4]$$

{Reaction: evaporation as ThCl₄(g)}

Cl₄Th (s)	Thorium(IV) Chloride	Cl₄Th (s)
ThCl ₄ (s)	beta	ThCl ₄ (s)

$$\Delta H_{1042}^0 = -1082.1 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1042}^0 = 362.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 143.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1042 \text{ K}) [4]$$

Cl₄Th (l)	Thorium(IV) Chloride	Cl₄Th (l)
ThCl ₄ (l)		ThCl ₄ (l)

$$\Delta H_{1042}^0 = -1020.7 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1042}^0 = 421.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1042 \text{ K}) [4]$$

$$\lg(p,K) = -10.14 \cdot 10^3 \cdot T^{-1} - 7.2 \cdot \lg(T) + 30.51 (1042 \dots 1224 \text{ K}) [4]$$

{Reaction: evaporation as ThCl₄(g)}

Cl₄Th (g)	Thorium(IV) Chloride	Cl₄Th (g)
ThCl ₄ (g)		ThCl ₄ (g)

$$\Delta H_{298}^0 = -967.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 397.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 107.75 + 0.21 \cdot 10^{-3} \cdot T - 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cl₄Ti (s)	Titanium(IV) Chloride	Cl₄Ti (s)
TiCl ₄ (s)		TiCl ₄ (s)

$$\text{mp} = 249 \text{ K} (-24 \text{ }^\circ\text{C})$$

$$\text{bp} = 409 \text{ K} (136 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -815 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 209.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 129.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Cl₄Ti (l)	Titanium(IV) Chloride	Cl₄Ti (l)
TiCl ₄ (l)		TiCl ₄ (l)

$\Delta H_{298}^0 = -804.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 252.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 142.79 + 8.7 \cdot 10^{-3} \cdot T - 0.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 409 K) [4]	
$\lg(p, K) = -2.92 \cdot 10^3 \cdot T^{-1} - 5.94 \cdot \lg(T) + 22.64$ (298 ... 409 K) [4]	
{Reaction: evaporation as TiCl ₄ (g)}	

Cl₄Ti (g)	Titanium(IV) Chloride	Cl₄Ti (g)
TiCl ₄ (g)		TiCl ₄ (g)

$\Delta H_{298}^0 = -763.2 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 354.9 \pm 2.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.17 + 0.49 \cdot 10^{-3} \cdot T - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₄U (s)	Uranium(IV) Chloride	Cl₄U (s)
UCl ₄ (s)		UCl ₄ (s)

mp = 863 K (590 °C)	bp = 1068 K (795 °C)
$\Delta H_{298}^0 = -1018.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 197.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 113.81 + 35.86 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 863 K) [4]	
$\lg(p, K) = -11.57 \cdot 10^3 \cdot T^{-1} - 4.01 \cdot \lg(T) + 23.64$ (600 ... 863 K) [4]	
{Reaction: evaporation as UCl ₄ (g)}	

Cl₄U (s)	Uranium(IV) Chloride	Cl₄U (s)
UCl ₄ (s)		UCl ₄ (s)

$\Delta H_{863}^0 = -943.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{863}^0 = 336.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Cl₄U (l)	Uranium(IV) Chloride	Cl₄U (l)
UCl ₄ (l)		UCl ₄ (l)

$\Delta H_{863}^0 = -889.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{863}^0 = 399.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 162.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (863 K) [4]	
$\lg(p, K) = -9.72 \cdot 10^3 \cdot T^{-1} - 6.68 \cdot \lg(T) + 29.33$ (863 ... 1068 K) [4]	
{Reaction: evaporation as UCl ₄ (g)}	

Cl₄U (g)	Uranium(IV) Chloride	Cl₄U (g)
UCl ₄ (g)		UCl ₄ (g)

$\Delta H_{298}^0 = -809.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 420.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.94 - 0.42 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} + 0.28 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₄V (l)	Vanadium(IV) Chloride	Cl₄V (l)
VCl ₄ (l)		VCl ₄ (l)

mp = 247 K (-26 °C)	bp = 427 K (154 °C)
$\Delta H_{298}^0 = -570.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 258.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]	
$\lg(p, K) = -3.26 \cdot 10^3 \cdot T^{-1} - 7.16 \cdot \lg(T) + 26.46$ (298 ... 427 K) [4]	
{Reaction: evaporation as VCl ₄ (g)}	

Cl₄V (g)	Vanadium(IV) Chloride	Cl₄V (g)
VCl ₄ (g)		VCl ₄ (g)

$\Delta H_{298}^0 = -525.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 366.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 111.07 - 2.64 \cdot 10^{-3} \cdot T - 1.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₄W (s)	Tungsten(IV) Chloride	Cl₄W (s)
WCl ₄ (s)		WCl ₄ (s)

$\Delta H_{298}^0 = -443.1 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 113.45 + 54.6 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 771 K) [4]	

Cl₄W (g)	Tungsten(IV) Chloride	Cl₄W (g)
WCl ₄ (g)		WCl ₄ (g)

$\Delta H_{298}^0 = -336 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 379.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.4 + 0.46 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

Cl₄Zr (s)	Zirconium(IV) Chloride	Cl₄Zr (s)
ZrCl ₄ (s)		ZrCl ₄ (s)

mp = 710 K (437 °C)

bp = 609 K (336 °C)

 $\Delta H_{298}^0 = -980.5 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 181.4 \pm 0.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 133.55 - 1.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 609 K) [4] $\lg(p,K) = -6.13 \cdot 10^3 \cdot T^{-1} - 2.8 \cdot \lg(T) + 17.87$ (400 ... 609 K) [4]{Reaction: evaporation as ZrCl₄(g)}

Cl₄Zr (g)	Zirconium(IV) Chloride	Cl₄Zr (g)
ZrCl ₄ (g)		ZrCl ₄ (g)

 $\Delta H_{298}^0 = -870 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 367.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 107.26 + 0.5 \cdot 10^{-3} \cdot T - 0.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cl₅CoGa (g)	Cobalt Gallium Chloride	Cl₅CoGa (g)
CoGaCl ₅ (g)		CoGaCl ₅ (g)

 $\Delta H_{298}^0 = -627 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8] $S_{298}^0 = 506.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]

Cl₅CrGa (g)	Chromium Gallium Chloride	Cl₅CrGa (g)
CrGaCl ₅ (g)		CrGaCl ₅ (g)

 $\Delta H_{298}^0 = -710.7 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8] $S_{298}^0 = 487.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]

Cl₅Cs₃Mg (s)	Cesium Magnesium Chloride	Cl₅Cs₃Mg (s)
3CsCl · MgCl ₂ (s)		3CsCl · MgCl ₂ (s)

 $\Delta H_{298}^0 = -1989 \text{ kJ}\cdot\text{mol}^{-1}$ [206] $S_{298}^0 = [393.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [210] $C_p^0 = [228.84] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

Cl₅CuGa (g)	Copper Gallium Chloride	Cl₅CuGa (g)
CuGaCl ₅ (g)		CuGaCl ₅ (g)

 $\Delta H_{298}^0 = -590.1 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8] $S_{298}^0 = 485.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]

Cl₅EuH₈N₂ (s) (NH ₄) ₂ EuCl ₅ (s)	Ammonium Europium Chloride	Cl₅EuH₈N₂ (s) (NH ₄) ₂ EuCl ₅ (s)
$\Delta H^0_{298} = -1578.6 \pm 18.8 \text{ kJ}\cdot\text{mol}^{-1}$ [32]		$S^0_{298} = 357.3 \pm 31.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [32]
Cl₅FeGa (g) FeGaCl ₅ (g)	Iron Gallium Chloride	Cl₅FeGa (g) FeGaCl ₅ (g)
$\Delta H^0_{298} = -696.1 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 482.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₅GaMn (g) MnGaCl ₅ (g)	Manganese Gallium Chloride	Cl₅GaMn (g) MnGaCl ₅ (g)
$\Delta H^0_{298} = -798.8 \text{ kJ}\cdot\text{mol}^{-1}$ [283]		$S^0_{298} = 490.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [283]
Cl₅GaNi (g) NiGaCl ₅ (g)	Nickel Gallium Chloride	Cl₅GaNi (g) NiGaCl ₅ (g)
$\Delta H^0_{298} = -617.5 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 482.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₅H₈LaN₂ (s) (NH ₄) ₂ LaCl ₅ (s)	Ammonium Lanthanum Chloride	Cl₅H₈LaN₂ (s) (NH ₄) ₂ LaCl ₅ (s)
$\Delta H^0_{298} = -1722.6 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1}$ [19]		$S^0_{298} = 362.8 \pm 9.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [19]
Cl₅H₈N₂Nd (s) (NH ₄) ₂ NdCl ₅ (s)	Ammonium Neodymium Chloride	Cl₅H₈N₂Nd (s) (NH ₄) ₂ NdCl ₅ (s)
$\Delta H^0_{298} = -1725.9 \pm 15.1 \text{ kJ}\cdot\text{mol}^{-1}$ [28]		$S^0_{298} = 335.1 \pm 24.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [28]
Cl₅H₈N₂Sm (s) (NH ₄) ₂ SmCl ₅ (s)	Ammonium Samarium Chloride	Cl₅H₈N₂Sm (s) (NH ₄) ₂ SmCl ₅ (s)
$\Delta H^0_{298} = -1705.8 \pm 12.1 \text{ kJ}\cdot\text{mol}^{-1}$ [31]		$S^0_{298} = 351.5 \pm 18.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [31]

Cl₅InMn (g)	Manganese Indium Chloride	Cl₅InMn (g)
MnInCl ₅ (g)		MnInCl ₅ (g)

$$\Delta H_{298}^0 = -764.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [283]}$$

$$S_{298}^0 = 520.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [283]}$$

Cl₅Mo (s)	Molybdenum(V) Chloride	Cl₅Mo (s)
MoCl ₅ (s)		MoCl ₅ (s)

$$\text{mp} = 470 \text{ K (197 }^\circ\text{C)}$$

$$\text{bp} = 537 \text{ K (264 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -527.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 238.5 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 120.38 + 119.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 470 K) [4]}$$

Cl₅Mo (l)	Molybdenum(V) Chloride	Cl₅Mo (l)
MoCl ₅ (l)		MoCl ₅ (l)

$$\Delta H_{298}^0 = -510.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 273.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 175.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

Cl₅Mo (g)	Molybdenum(V) Chloride	Cl₅Mo (g)
MoCl ₅ (g)		MoCl ₅ (g)

$$\Delta H_{298}^0 = -447.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 397.8 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 136.31 - 0.75 \cdot 10^{-3} \cdot T - 1.33 \cdot 10^6 \cdot T^{-2} + 0.49 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₅Nb (s)	Niobium(V) Chloride	Cl₅Nb (s)
NbCl ₅ (s)		NbCl ₅ (s)

$$\text{mp} = 479 \text{ K (206 }^\circ\text{C)}$$

$$\text{bp} = 519 \text{ K (246 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -797.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 214.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

$$\lg(p, K) = -5.3 \cdot 10^3 \cdot T^{-1} - 2.99 \cdot \lg(T) + 18.62 \text{ (298 ... 479 K) [4]}$$

{Reaction: evaporation}

Cl₅Nb (s)	Niobium(V) Chloride	Cl₅Nb (s)
NbCl ₅ (s)		NbCl ₅ (s)

$$\Delta H_{479}^0 = -770.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{479}^0 = 284.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₅Nb (l) NbCl ₅ (l)	Niobium(V) Chloride	Cl₅Nb (l) NbCl ₅ (l)
$\Delta H_{479}^0 = -736.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{479}^0 = 354.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 262.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (479 K) [4]		
Cl₅Nb (l) NbCl ₅ (l)	Niobium(V) Chloride	Cl₅Nb (l) NbCl ₅ (l)
$\Delta H_{298}^0 = -773.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 261 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₅Nb (g) NbCl ₅ (g)	Niobium(V) Chloride	Cl₅Nb (g) NbCl ₅ (g)
$\Delta H_{298}^0 = -703.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 404.1 \pm 3.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.73 + 0.81 \cdot 10^{-3} \cdot T - 1.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₅O₂U₂ (s) U ₂ O ₂ Cl ₅ (s)	Uranium Chloride Oxide	Cl₅O₂U₂ (s) U ₂ O ₂ Cl ₅ (s)
$\Delta H_{298}^0 = -2197.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 326.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 234.3 + 35.56 \cdot 10^{-3} \cdot T - 2.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 700 K) [4]		
Cl₅P (s) PCl ₅ (s)	Phosphorus(V) Chloride	Cl₅P (s) PCl ₅ (s)
mp = 432 K (159 °C)		bp = 432 K (159 °C)
$\Delta H_{298}^0 = -445.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 199.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 142.27 + 0.84 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 432 K) [4]		
$\lg(p, K) = -4.08 \cdot 10^3 \cdot T^{-1} - 3.06 \cdot \lg(T) + 17.51$ (298 ... 432 K) [4]		
{Reaction: evaporation}		
Cl₅P (g) PCl ₅ (g)	Phosphorus(V) Chloride	Cl₅P (g) PCl ₅ (g)
$\Delta H_{298}^0 = -374.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 364.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.59 + 0.84 \cdot 10^{-3} \cdot T - 1.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		

Cl₅Re (g)	Rhenium(V) Chloride	Cl₅Re (g)
ReCl ₅ (g)		ReCl ₅ (g)

$$\Delta H_{298}^0 = -306.7 \pm 11.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [50]}$$

$$S_{298}^0 = 405.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [50]}$$

$$C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [50]}$$

Cl₅Sb (l)	Antimony(V) Chloride	Cl₅Sb (l)
SbCl ₅ (l)		SbCl ₅ (l)

$$\text{mp} = 275 \text{ K (2 }^\circ\text{C)}$$

$$\text{bp} = 413 \text{ K (140 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -440.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 301 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 158.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [4]}$$

Cl₅Sb (g)	Antimony(V) Chloride	Cl₅Sb (g)
SbCl ₅ (g)		SbCl ₅ (g)

$$\Delta H_{298}^0 = -399.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 401.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 131.75 + 0.67 \cdot 10^{-3} \cdot T - 1.72 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₅Ta (s)	Tantalum(V) Chloride	Cl₅Ta (s)
TaCl ₅ (s)		TaCl ₅ (s)

$$\text{mp} = 490 \text{ K (217 }^\circ\text{C)}$$

$$\text{bp} = 506 \text{ K (233 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -859 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 221.8 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 490 K) [4]}$$

$$\lg(\rho, K) = -5.29 \cdot 10^3 \cdot T^{-1} - 2.88 \cdot \lg(T) + 18.36 \text{ (298 ... 490 K) [4]}$$

{Reaction: evaporation}

Cl₅Ta (s)	Tantalum(V) Chloride	Cl₅Ta (s)
TaCl ₅ (s)		TaCl ₅ (s)

$$\Delta H_{490}^0 = -830.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{490}^0 = 295.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cl₅Ta (l)	Tantalum(V) Chloride	Cl₅Ta (l)
TaCl ₅ (l)		TaCl ₅ (l)

$$\Delta H_{490}^0 = -795.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{490}^0 = 367 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 242.32 - 51.34 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (490 ... 506 K) [4]}$$

Cl₅Ta (l) TaCl ₅ (l)	Tantalum(V) Chloride	Cl₅Ta (l) TaCl ₅ (l)
$\Delta H_{298}^0 = -834.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 147.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 268.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cl₅Ta (g) TaCl ₅ (g)	Tantalum(V) Chloride	Cl₅Ta (g) TaCl ₅ (g)
$\Delta H_{298}^0 = -764.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 131.93 + 0.69 \cdot 10^{-3} \cdot T - 1.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 413 \pm 3.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cl₅U (s) UCl ₅ (s)	Uranium(V) Chloride	Cl₅U (s) UCl ₅ (s)
$\Delta H_{298}^0 = -1041.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 140.04 + 35.44 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		$S_{298}^0 = 246.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cl₅U (g) UCl ₅ (g)	Uranium(V) Chloride	Cl₅U (g) UCl ₅ (g)
$\Delta H_{298}^0 = -926.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 143.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 435.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Cl₅W (s) WCl ₅ (s)	Tungsten(V) Chloride	Cl₅W (s) WCl ₅ (s)
mp = 526 K (253 °C) $\Delta H_{298}^0 = -513 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 124.45 + 109.92 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 526 K) [4]		bp = 558 K (285 °C) $S_{298}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cl₅W (l) WCl ₅ (l)	Tungsten(V) Chloride	Cl₅W (l) WCl ₅ (l)
$\Delta H_{298}^0 = -495.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 248.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

Cl₅W (g)	Tungsten(V) Chloride	Cl₅W (g)
WCl ₅ (g)		WCl ₅ (g)

$\Delta H_{298}^0 = -412.5 \pm 33 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 405.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.38 + 1.41 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -5.96 \cdot 10^3 \cdot T^{-1} - 5.34 \cdot \lg(T) + 25.43$ (298 ... 526 K) [4]	
{Reaction: evaporation of WCl ₅ (s)}	

Cl₆Cs₂LaNa (s)	Cesium Sodium Lanthanum Chloride	Cl₆Cs₂LaNa (s)
Cs ₂ NaLaCl ₆ (s)		Cs ₂ NaLaCl ₆ (s)

$\Delta H_{298}^0 = -2391.6 \text{ kJ}\cdot\text{mol}^{-1}$ [96]	$S_{298}^0 = [411.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [97]
$C_p^0 = [253.66] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

Cl₆EuH₁₂N₃ (s)	Ammonium Europium Chloride	Cl₆EuH₁₂N₃ (s)
(NH ₄) ₃ EuCl ₆ (s)		(NH ₄) ₃ EuCl ₆ (s)

$\Delta H_{298}^0 = -1877.4 \pm 21.3 \text{ kJ}\cdot\text{mol}^{-1}$ [32]	$S_{298}^0 = 497.5 \pm 34.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [32]
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Cl₆Fe₂ (g)	Iron(III) Chloride	Cl₆Fe₂ (g)
(FeCl ₃) ₂ (g)		(FeCl ₃) ₂ (g)

$\Delta H_{298}^0 = -660.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 537.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182.54 + 0.24 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -8.05 \cdot 10^3 \cdot T^{-1} - 5.52 \cdot \lg(T) + 29.03$ (400 ... 577 K) [4]	
{Reaction: evaporation of FeCl ₃ (s)}	

Cl₆Ga₂ (g)	Gallium(III) Chloride	Cl₆Ga₂ (g)
(GaCl ₃) ₂ (g)		(GaCl ₃) ₂ (g)

$\Delta H_{298}^0 = -951.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 500.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 181.46 + 0.9 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 351 K) [4]	
$\lg(p, K) = -6.19 \cdot 10^3 \cdot T^{-1} - 8.35 \cdot \lg(T) + 36.31$ (298 ... 351 K) [4]	
{Reaction: evaporation of GaCl ₃ (s)}	

Cl₆H₁₂N₃Y (s) (NH ₄) ₃ YCl ₆ (s)	Ammonium Yttrium Chloride	Cl₆H₁₂N₃Y (s) (NH ₄) ₃ YCl ₆ (s)
$\Delta H_{298}^0 = -1977.4 \pm 12.2 \text{ kJ}\cdot\text{mol}^{-1}$ [20]		$S_{298}^0 = 485.3 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [20]
Cl₆In₂ (g) (InCl ₃) ₂ (g)	Indium(III) Chloride	Cl₆In₂ (g) (InCl ₃) ₂ (g)
$\Delta H_{298}^0 = -888.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 529 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 182.16 + 0.44 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(\rho, K) = -10.57 \cdot 10^3 \cdot T^{-1} - 5.43 \cdot \lg(T) + 29.19$ (500 ... 779 K) [4]		
{Reaction: evaporation of InCl ₃ (s)}		
Cl₆K₄Mg (s) 4KCl · MgCl ₂ (s)	Potassium Magnesium Chloride	Cl₆K₄Mg (s) 4KCl · MgCl ₂ (s)
$\Delta H_{298}^0 = -2394 \text{ kJ}\cdot\text{mol}^{-1}$ [206]		$S_{298}^0 = [419.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [214]
$C_p^0 = [277.60] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Cl₆Mo (s) MoCl ₆ (s)	Molybdenum(VI) Chloride	Cl₆Mo (s) MoCl ₆ (s)
$\Delta H_{298}^0 = -523 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 255.2 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 175.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₆Mo (g) MoCl ₆ (g)	Molybdenum(VI) Chloride	Cl₆Mo (g) MoCl ₆ (g)
$\Delta H_{298}^0 = -439.3 \pm 83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 419.5 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 144.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cl₆Sc₂ (g) (ScCl ₃) ₂ (g)	Scandium(III) Chloride	Cl₆Sc₂ (g) (ScCl ₃) ₂ (g)
$\Delta H_{298}^0 = -1510.4 \text{ kJ}\cdot\text{mol}^{-1}$ [93]		$S_{298}^0 = 493.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [93]

Cl₆Ti₂ (g) (TiCl ₃) ₂ (g)	Titanium(III) Chloride	Cl₆Ti₂ (g) (TiCl ₃) ₂ (g)
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$$\Delta H_{298}^0 = -1247.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 482.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 182.59 + 0.21 \cdot 10^{-3} \cdot T - 1.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₆U (s) UCl ₆ (s)	Uranium(VI) Chloride	Cl₆U (s) UCl ₆ (s)
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$$\text{mp} = 451 \text{ K (178 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1068.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 285.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 173.4 + 35.06 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 451 K) [4]}$$

Cl₆U (g) UCl ₆ (g)	Uranium(VI) Chloride	Cl₆U (g) UCl ₆ (g)
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$$\Delta H_{298}^0 = -987.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 432.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 157.63 + 0.13 \cdot 10^{-3} \cdot T - 1.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride alpha 1	Cl₆W (s) WCl ₆ (s)
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$$\text{mp} = 555 \text{ K (282 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -593.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$\text{bp} = 613 \text{ K (340 } ^\circ\text{C)}$$

$$S_{298}^0 = 238.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 125.56 + 167.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 450 K) [4]}$$

$$\lg(p, K) = -5.87 \cdot 10^3 \cdot T^{-1} - 4.87 \cdot \lg(T) + 23.65 \text{ (298 ... 450 K) [4]}$$

{Reaction: evaporation}

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride alpha 1	Cl₆W (s) WCl ₆ (s)
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$$\Delta H_{450}^0 = -565.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{450}^0 = 315.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (450 K) [4]}$$

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride alpha 2	Cl₆W (s) WCl ₆ (s)
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$$\Delta H_{450}^0 = -560.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{450}^0 = 324.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (450 \text{ K}) [4]$$

$$\lg(p,K) = -6.03 \cdot 10^3 \cdot T^{-1} - 6.86 \cdot \lg(T) + 29.29 (450 \dots 503 \text{ K}) [4]$$

{Reaction: evaporation}

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride alpha 2	Cl₆W (s) WCl ₆ (s)
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$$\Delta H_{503}^0 = -549.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{503}^0 = 348.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (503 \text{ K}) [4]$$

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride beta	Cl₆W (s) WCl ₆ (s)
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$$\Delta H_{503}^0 = -534.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{503}^0 = 379.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (503 \text{ K}) [4]$$

$$\lg(p,K) = -4.63 \cdot 10^3 \cdot T^{-1} - 4.22 \cdot \lg(T) + 19.38 (503 \dots 555 \text{ K}) [4]$$

{Reaction: evaporation}

Cl₆W (s) WCl ₆ (s)	Tungsten(VI) Chloride beta	Cl₆W (s) WCl ₆ (s)
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$$\Delta H_{555}^0 = -524.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{555}^0 = 398 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (555 \text{ K}) [4]$$

Cl₆W (l) WCl ₆ (l)	Tungsten(VI) Chloride	Cl₆W (l) WCl ₆ (l)
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$$\Delta H_{555}^0 = -517.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{555}^0 = 410.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 200.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (555 \text{ K}) [4]$$

$$\lg(p,K) = -4.62 \cdot 10^3 \cdot T^{-1} - 5.63 \cdot \lg(T) + 23.23 (555 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation}

Cl₆W (g) WCl ₆ (g)	Tungsten(VI) Chloride	Cl₆W (g) WCl ₆ (g)
$\Delta H^0_{298} = -493.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 419.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 157.54 + 0.19 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cl₇Eu₂H₄N (s) NH ₄ Eu ₂ Cl ₇ (s)	Ammonium Europium Chloride	Cl₇Eu₂H₄N (s) NH ₄ Eu ₂ Cl ₇ (s)
$\Delta H^0_{298} = -2174.8 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [32]		$S^0_{298} = 394.1 \pm 23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [32]
Cl₇H₄NNd₂ (s) NH ₄ Nd ₂ Cl ₇ (s)	Ammonium Neodymium Chloride	Cl₇H₄NNd₂ (s) NH ₄ Nd ₂ Cl ₇ (s)
$\Delta H^0_{298} = -2424.6 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [28]		$S^0_{298} = 425.9 \pm 23.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [28]
Cl₇H₄NSm₂ (s) NH ₄ Sm ₂ Cl ₇ (s)	Ammonium Samarium Chloride	Cl₇H₄NSm₂ (s) NH ₄ Sm ₂ Cl ₇ (s)
$\Delta H^0_{298} = -2413.3 \pm 14.2 \text{ kJ}\cdot\text{mol}^{-1}$ [31]		$S^0_{298} = 410.5 \pm 23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [31]
Cl₇H₄NY₂ (s) NH ₄ Y ₂ Cl ₇ (s)	Ammonium Yttrium Chloride	Cl₇H₄NY₂ (s) NH ₄ Y ₂ Cl ₇ (s)
$\Delta H^0_{298} = -2359.8 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [20]		$S^0_{298} = 365.7 \pm 23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [20]
Cl₇K₃Mg₂ (s) 3KCl · 2MgCl ₂ (s)	Potassium Magnesium Chloride	Cl₇K₃Mg₂ (s) 3KCl · 2MgCl ₂ (s)
$\Delta H^0_{298} = -2610 \text{ kJ}\cdot\text{mol}^{-1}$ [206]		$S^0_{298} = [426.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [212]
$C_p^0 = [297.30] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Cl₇Mg₂Rb₃ (s) 3RbCl · 2MgCl ₂ (s)	Rubidium Magnesium Chloride	Cl₇Mg₂Rb₃ (s) 3RbCl · 2MgCl ₂ (s)
$\Delta H^0_{298} = -2622 \text{ kJ}\cdot\text{mol}^{-1}$ [206]		$S^0_{298} = [464.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [216]
$C_p^0 = [296.64] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

Cl₈CoFe₂ (g) CoFe ₂ Cl ₈ (g)	Cobalt Iron Chloride	Cl₈CoFe₂ (g) CoFe ₂ Cl ₈ (g)
$\Delta H^0_{298} = -918.6 \text{ kJ}\cdot\text{mol}^{-1}$ [169, 8]		$S^0_{298} = 688.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [169, 8]
Cl₈CoGa₂ (g) CoGa ₂ Cl ₈ (g)	Cobalt Gallium Chloride	Cl₈CoGa₂ (g) CoGa ₂ Cl ₈ (g)
$\Delta H^0_{298} = -1214.1 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 659.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₈CrGa₂ (g) CrGa ₂ Cl ₈ (g)	Chromium Gallium Chloride	Cl₈CrGa₂ (g) CrGa ₂ Cl ₈ (g)
$\Delta H^0_{298} = -1309 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 661.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₈CuGa₂ (g) CuGa ₂ Cl ₈ (g)	Copper Gallium Chloride	Cl₈CuGa₂ (g) CuGa ₂ Cl ₈ (g)
$\Delta H^0_{298} = -1132.7 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 650.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₈FeGa₂ (g) FeGa ₂ Cl ₈ (g)	Iron Gallium Chloride	Cl₈FeGa₂ (g) FeGa ₂ Cl ₈ (g)
$\Delta H^0_{298} = -1243 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S^0_{298} = 668.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₈Fe₂Mn (g) MnFe ₂ Cl ₈ (g)	Manganese Iron Chloride	Cl₈Fe₂Mn (g) MnFe ₂ Cl ₈ (g)
$\Delta H^0_{298} = -1087.4 \text{ kJ}\cdot\text{mol}^{-1}$ [169, 8]		$S^0_{298} = 697.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [169, 8]
Cl₈Fe₂Ni (g) NiFe ₂ Cl ₈ (g)	Nickel Iron Chloride	Cl₈Fe₂Ni (g) NiFe ₂ Cl ₈ (g)
$\Delta H^0_{298} = -903 \text{ kJ}\cdot\text{mol}^{-1}$ [169, 8]		$S^0_{298} = 676.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [169, 8]

Cl₈Ga₂Mn (g) MnGa ₂ Cl ₈ (g)	Manganese Gallium Chloride	Cl₈Ga₂Mn (g) MnGa ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1386.7 \text{ kJ}\cdot\text{mol}^{-1}$ [283]		$S_{298}^0 = 673 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [283]
Cl₈Ga₂Ni (g) NiGa ₂ Cl ₈ (g)	Nickel Gallium Chloride	Cl₈Ga₂Ni (g) NiGa ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1202.5 \text{ kJ}\cdot\text{mol}^{-1}$ [168, 8]		$S_{298}^0 = 640.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [168, 8]
Cl₈In₂Mn (g) MnIn ₂ Cl ₈ (g)	Manganese Indium Chloride	Cl₈In₂Mn (g) MnIn ₂ Cl ₈ (g)
$\Delta H_{298}^0 = -1312.6 \text{ kJ}\cdot\text{mol}^{-1}$ [283]		$S_{298}^0 = 689.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [283]
Cl₈MgNa₆ (s) 6NaCl · MgCl ₂ (s)	Sodium Magnesium Chloride	Cl₈MgNa₆ (s) 6NaCl · MgCl ₂ (s)
$\Delta H_{298}^0 = -3105 \text{ kJ}\cdot\text{mol}^{-1}$ [206] $C_p^0 = [374.10] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [522.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [221]
Cl₈Mg₃Na₂ (s) 2NaCl · 3MgCl ₃ (s)	Sodium Magnesium Chloride	Cl₈Mg₃Na₂ (s) 2NaCl · 3MgCl ₃ (s)
$\Delta H_{298}^0 = -2754 \text{ kJ}\cdot\text{mol}^{-1}$ [206] $C_p^0 = [314.78] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [412.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [218]
Cl₈U₂ (g) (UCl ₄) ₂ (g)	Uranium(IV) Chloride	Cl₈U₂ (g) (UCl ₄) ₂ (g)
$\Delta H_{298}^0 = -1819.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 223.51 + 5.31 \cdot 10^{-3} \cdot T - 5.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p, K) = -12.41 \cdot 10^3 \cdot T^{-1} - 7.5 \cdot \lg(T) + 31.65$ (700 ... 863 K) [4] {Reaction: evaporation of UCl ₄ (s)}		$S_{298}^0 = 581.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cl₉CsMg₄ (s)	Cesium Magnesium Chloride	Cl₉CsMg₄ (s)
CsCl · 4MgCl ₂ (s)		CsCl · 4MgCl ₂ (s)

$$\Delta H_{298}^0 = -3048 \text{ kJ}\cdot\text{mol}^{-1} \text{ [206]}$$

$$S_{298}^0 = [459.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [207]}$$

$$C_p^0 = [337.64] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

Cl₁₀U₂ (g)	Uranium(V) Chloride	Cl₁₀U₂ (g)
(UCl ₅) ₂ (g)		(UCl ₅) ₂ (g)

$$\Delta H_{298}^0 = -1960.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 707.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 281.7 + 0.53 \cdot 10^{-3} \cdot T - 1.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -4.59 \cdot 10^3 \cdot T^{-1} - 3.48 \cdot \lg(T) + 15.12 \text{ (298 ... 600 K) [4]}$$

{Reaction: evaporation of UCl₅(s)}

Cl₁₀W₂ (g)	Tungsten(V) Chloride	Cl₁₀W₂ (g)
(WCl ₅) ₂ (g)		(WCl ₅) ₂ (g)

$$\Delta H_{298}^0 = -868.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 713.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 281.71 + 0.52 \cdot 10^{-3} \cdot T - 1.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -9.3 \cdot 10^3 \cdot T^{-1} - 8.16 \cdot \lg(T) + 38.32 \text{ (400 ... 526 K) [4]}$$

{Reaction: evaporation of WCl₅(s)}

Cl₁₂Pt₆ (g)	Platinum(II) Chloride	Cl₁₂Pt₆ (g)
(PtCl ₂) ₆ (g)		(PtCl ₂) ₆ (g)

$$\Delta H_{298}^0 = -644.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [76]}$$

$$S_{298}^0 = 769.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [76]}$$

Co (s)	Cobalt alpha	Co (s)
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$$\text{mp} = 1768 \text{ K (1495 }^\circ\text{C)}$$

$$\text{bp} = 3200 \text{ K (2927 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 30.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 19.13 + 20.47 \cdot 10^{-3} \cdot T - 4.68 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 700 K) [4]}$$

Co (s)	Cobalt alpha	Co (s)
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$$\Delta H_{700}^0 = 11.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{700}^0 = 53.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Co (s)	Cobalt beta	Co (s)
$\Delta H_{700}^0 = 11.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{700}^0 = 54.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 4.47 + 29.99 \cdot 10^{-3} \cdot T + 2.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (700 ... 1000 K) [4]		
Co (s)	Cobalt beta	Co (s)
$\Delta H_{1768}^0 = 54 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1768}^0 = 90.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1768 K) [4]		
Co (l)	Cobalt	Co (l)
$\Delta H_{1768}^0 = 70.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1768}^0 = 99.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 40.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1768 K) [4]		
$\lg(p, K) = -22.02 \cdot 10^3 \cdot T^{-1} - 1.7 \cdot \lg(T) + 12.84$ (1768 ... 3200 K) [4]		
{Reaction: evaporation as Co(g)}		
Co (l)	Cobalt	Co (l)
$\Delta H_{298}^0 = 18 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1768 K) [4]		
Co (g)	Cobalt	Co (g)
$\Delta H_{298}^0 = 426.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 179.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.69 - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 5000 K) [6]		
CoCr₂O₄ (s)	Cobalt Chromate(III)	CoCr₂O₄ (s)
CoO · Cr ₂ O ₃ (s)		CoO · Cr ₂ O ₃ (s)
$\Delta H_{298}^0 = -1438.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 126.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.65 + 17.74 \cdot 10^{-3} \cdot T - 1.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1800 K) [4]		

CoF₂ (s)	Cobalt(II) Fluoride	CoF₂ (s)
mp = 1400 K (1127 °C)		bp = 2020 K (1747 °C)
$\Delta H_{298}^0 = -672.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 80.91 + 6.15 \cdot 10^{-3} \cdot T - 1.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]		
$\lg(p,K) = -17.09 \cdot 10^3 \cdot T^{-1} - 3.46 \cdot \lg(T) + 20.6$ (900 ... 1400 K) [4]		
{Reaction: evaporation as CoF ₂ (g)}		
CoF₂ (s)	Cobalt(II) Fluoride	CoF₂ (s)
$\Delta H_{1400}^0 = -580.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1400}^0 = 207.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 88.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1400 K) [4]		
CoF₂ (l)	Cobalt(II) Fluoride	CoF₂ (l)
$\Delta H_{1400}^0 = -523.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1400}^0 = 248.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1400 ... 2020 K) [4]		
$\lg(p,K) = -15.09 \cdot 10^3 \cdot T^{-1} - 5.13 \cdot \lg(T) + 24.43$ (1400 ... 2020 K) [4]		
{Reaction: evaporation as CoF ₂ (g)}		
CoF₂ (l)	Cobalt(II) Fluoride	CoF₂ (l)
$\Delta H_{298}^0 = -637.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 86.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CoF₂ (g)	Cobalt(II) Fluoride	CoF₂ (g)
$\Delta H_{298}^0 = -356.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 278 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.41 + 2.68 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2020 K) [4]		
CoF₃ (s)	Cobalt(III) Fluoride	CoF₃ (s)
mp = 1200 K (927 °C)		
$\Delta H_{298}^0 = -790.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 94.6 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 100.28 + 4.88 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1365 K) [4]		
$\lg(p,K) = -12.19 \cdot 10^3 \cdot T^{-1} - 0.04 \cdot \lg(T) + 9.06$ (700 ... 1365 K) [4]		
{Reaction: decomposition $2\text{CoF}_3(\text{s}) = 2\text{CoF}_2(\text{s}) + \text{F}_2(\text{g})$ }		

CoFe₂O₄ (s)	Cobalt Ferrate(III)	CoFe₂O₄ (s)
CoO · Fe ₂ O ₃ (s)		CoO · Fe ₂ O ₃ (s)

$$\Delta H_{298}^0 = -1088.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 142.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 173.22 + 54.39 \cdot 10^{-3} \cdot T - 3.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 740 \text{ K}) [4]$$

CoH₂O₂ (s)	Cobalt(II) Hydroxide	CoH₂O₂ (s)
Co(OH) ₂ (s)		Co(OH) ₂ (s)

$$\Delta H_{298}^0 = -541.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 93.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.84 + 47.7 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 416 \text{ K}) [4]$$

$$\lg(p, K) = -3.4 \cdot 10^3 \cdot T^{-1} - 1.45 \cdot \lg(T) + 11.98 (298 \dots 416 \text{ K}) [4]$$

{Reaction: decomposition Co(OH)₂(s) = CoO(s) + H₂O(g)}

CoH₁₂O₁₀S (s)	Cobalt(II) Sulfate Hexahydrate	CoH₁₂O₁₀S (s)
CoSO ₄ · 6H ₂ O (s)		CoSO ₄ · 6H ₂ O (s)

$$\Delta H_{298}^0 = -2684 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 368 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 353 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

CoH₁₄O₁₁S (s)	Cobalt(II) Sulfate Heptahydrate	CoH₁₄O₁₁S (s)
CoSO ₄ · 7H ₂ O (s)		CoSO ₄ · 7H ₂ O (s)

$$\Delta H_{298}^0 = -2980 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 406 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 390 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

CoI₂ (s)	Cobalt(II) Iodide	CoI₂ (s)
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$$\text{mp} = 790 \text{ K} (517 \text{ }^\circ\text{C})$$

$$\text{bp} = 1100 \text{ K} (827 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -85.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 153.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 72.38 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 790 \text{ K}) [4]$$

CoI₂ (l)	Cobalt(II) Iodide	CoI₂ (l)
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$$\Delta H_{298}^0 = -52.3 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [77]$$

$$S_{298}^0 = 186.2 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [77]$$

$$C_p^0 = 101.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [77]$$

CoI₂ (g)	Cobalt(II) Iodide	CoI₂ (g)
$\Delta H_{298}^0 = 118.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [77]		$S_{298}^0 = 343 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [284]
$C_p^0 = 62.3 + 0.03 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [77]		
CoN₂O₆ (s) Co(NO ₃) ₂ (s)	Cobalt Nitrate	CoN₂O₆ (s) Co(NO ₃) ₂ (s)
$\Delta H_{298}^0 = -421.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 177 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.8 + 83.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 535 K) [4]		
CoO (s)	Cobalt(II) Oxide	CoO (s)
$\Delta H_{298}^0 = -237.7 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 53 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 45.26 + 10.69 \cdot 10^{-3} \cdot T + 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CoO₃Se (s) CoSeO ₃ (s)	Cobalt Selenite	CoO₃Se (s) CoSeO ₃ (s)
mp = 932 K (659 °C)		
$\Delta H_{298}^0 = -577.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 128 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 79.91 + 59.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 932 K) [4]		
CoO₃Se (s) CoSeO ₃ (s)	Cobalt Selenite	CoO₃Se (s) CoSeO ₃ (s)
$\Delta H_{932}^0 = -503.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{932}^0 = 257 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CoO₃Se (l) CoSeO ₃ (l)	Cobalt Selenite	CoO₃Se (l) CoSeO ₃ (l)
$\Delta H_{932}^0 = -487.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{932}^0 = 274.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 144.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (932 K) [4]		

CoO₃Ti (s)	Cobalt Titanate	CoO₃Ti (s)
CoO · TiO ₂ (s)		CoO · TiO ₂ (s)

mp = 1736 K (1463 °C)

 $\Delta H_{298}^0 = -1207.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 96.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 123.47 + 9.71 \cdot 10^{-3} \cdot T - 1.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1736 K) [4]

CoO₄S (s)	Cobalt Sulfate	CoO₄S (s)
CoSO ₄ (s)		CoSO ₄ (s)

 $\Delta H_{298}^0 = -888.3 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 117.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 122.59 + 40.29 \cdot 10^{-3} \cdot T - 2.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 964 K) [4]

CoO₄W (s)	Cobalt Tungstate alpha	CoO₄W (s)
CoO · WO ₃ (s)		CoO · WO ₃ (s)

mp = 1213 K (940 °C)

 $\Delta H_{298}^0 = -1142.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 126.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 115.48 + 48.49 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 986 K) [4]

CoO₄W (s)	Cobalt Tungstate alpha	CoO₄W (s)
CoO · WO ₃ (s)		CoO · WO ₃ (s)

 $\Delta H_{986}^0 = -1041.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{986}^0 = 297.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CoO₄W (s)	Cobalt Tungstate beta	CoO₄W (s)
CoO · WO ₃ (s)		CoO · WO ₃ (s)

 $\Delta H_{986}^0 = -1040 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{986}^0 = 299.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 122.38 + 41.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (986 ... 1213 K) [4]

CoP (s)	Cobalt Phosphide	CoP (s)
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 $\Delta H_{298}^0 = -146.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 45.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

CoP₃ (s)	Cobalt Phosphide	CoP₃ (s)
$\Delta H_{298}^0 = -280.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 98.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 101.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CoS_{0.89} (s)	Cobalt Sulfide	CoS_{0.89} (s)
$\Delta H_{298}^0 = -94.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 52.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 40.25 + 15.52 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1106 K) [4]		
CoS₂ (s)	Cobalt Sulfide	CoS₂ (s)
$\Delta H_{298}^0 = -153.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60.67 + 25.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]		
CoSb (s)	Cobalt Antimonide	CoSb (s)
mp = 1475 K (1202 °C)		
$\Delta H_{298}^0 = -42 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 70.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.26 + 25.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1475 K) [4]		
CoSb₂ (s)	Cobalt Antimonide	CoSb₂ (s)
mp = 1192 K (919 °C)		
$\Delta H_{298}^0 = -54 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 120.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 64.85 + 33.18 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1192 K) [4]		
CoSb₃ (s)	Cobalt Antimonide	CoSb₃ (s)
$\Delta H_{298}^0 = -67 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 161.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 87.86 + 40.38 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1132 K) [4]		
CoSe_{0.889} (s)	Cobalt Selenide	CoSe_{0.889} (s)
$\Delta H_{298}^0 = -52.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [66.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

CoSe_{1.11} (s)	Cobalt Selenide	CoSe_{1.11} (s)
$\Delta H_{298}^0 = -65.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [72.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CoSe_{1.25} (s)	Cobalt Selenide	CoSe_{1.25} (s)
$\Delta H_{298}^0 = -72.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CoSe₂ (s)	Cobalt Selenide	CoSe₂ (s)
$\Delta H_{298}^0 = -93.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [96.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CoSi (s)	Cobalt Silicide	CoSi (s)
mp = 1733 K (1460 °C)		
$\Delta H_{298}^0 = -95.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 42.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.16 + 12.09 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1733 K) [4]		
CoSi (s)	Cobalt Silicide	CoSi (s)
$\Delta H_{1733}^0 = -9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1733}^0 = 142.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CoSi (l)	Cobalt Silicide	CoSi (l)
$\Delta H_{1733}^0 = 60.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1733}^0 = 182.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 87.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1733 K) [4]		
CoSi₂ (s)	Cobalt Silicide	CoSi₂ (s)
mp = 1601 K (1328 °C)		
$\Delta H_{298}^0 = -98.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.86 + 18.66 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1601 K) [4]		
CoSi₂ (s)	Cobalt Silicide	CoSi₂ (s)
$\Delta H_{1601}^0 = 14 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1601}^0 = 202 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CoSi₂ (l)	Cobalt Silicide	CoSi₂ (l)
$\Delta H_{1601}^0 = 114 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1601}^0 = 264.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 116.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1601 K) [4]		
CoSn (s)	Cobalt Tin	CoSn (s)
mp = 1209 K (936 °C)		
$\Delta H_{298}^0 = -29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 71.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.61 + 18.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1209 K) [4]		
CoTe₂ (s)	Cobalt Telluride	CoTe₂ (s)
mp = 1050 K (777 °C)		
$\Delta H_{298}^0 = -133.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [110.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Co₂I₄ (g)	Cobalt Iodide	Co₂I₄ (g)
$\Delta H_{298}^0 = 54.1 \text{ kJ}\cdot\text{mol}^{-1}$ [284]		$S_{298}^0 = 531 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [284]
$C_p^0 = 132.94 + 0.04 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [284]		
Co₂O₄Si (s) 2CoO · SiO ₂ (s)	Cobalt Silicate	Co₂O₄Si (s) 2CoO · SiO ₂ (s)
mp = 1688 K (1415 °C)		
$\Delta H_{298}^0 = -1398.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 158.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 157.4 + 22.05 \cdot 10^{-3} \cdot T - 2.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1688 K) [4]		
Co₂O₄Si (s) 2CoO · SiO ₂ (s)	Cobalt Silicate	Co₂O₄Si (s) 2CoO · SiO ₂ (s)
$\Delta H_{1688}^0 = -1156.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1688}^0 = 447.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Co₂O₄Si (l) 2CoO · SiO ₂ (l)	Cobalt Silicate	Co₂O₄Si (l) 2CoO · SiO ₂ (l)
$\Delta H_{1688}^0 = -1056.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1688}^0 = 507.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 242.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1688 K) [4]		

Co₂O₄Ti (s) 2CoO · TiO ₂ (s)	Cobalt Titanate	Co₂O₄Ti (s) 2CoO · TiO ₂ (s)
mp = 1835 K (1562 °C)		
$\Delta H_{298}^0 = -1447.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 171.75 + 18.24 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1835 K) [4]		
Co₂P (s)	Cobalt Phosphide	Co₂P (s)
mp = 1659 K (1386 °C)		
$\Delta H_{298}^0 = -188 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 57.95 + 23.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1659 K) [4]		
Co₂Si (s)	Cobalt Silicide	Co₂Si (s)
$\Delta H_{298}^0 = -119.2 \text{ kJ}\cdot\text{mol}^{-1}$ [44]		$S_{298}^0 = 73.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [44]
$C_p^0 = 70.75 + 27.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [44]		
Co₃N (s)	Cobalt Nitride	Co₃N (s)
$\Delta H_{298}^0 = 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.22 + 62.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		
Co₃O₄ (s)	Cobalt Oxide	Co₃O₄ (s)
$\Delta H_{298}^0 = -910 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 114.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.65 + 66.02 \cdot 10^{-3} \cdot T - 2.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1226 K) [4]		
$\lg(p, K) = -23.42 \cdot 10^3 \cdot T^{-1} - 2.53 \cdot \lg(T) + 26.91$ (900 ... 1226 K) [4]		
{Reaction: decomposition 2Co ₃ O ₄ (s) = 6CoO(s) + O ₂ (g)}		
Co₃S₄ (s)	Cobalt Sulfide	Co₃S₄ (s)
$\Delta H_{298}^0 = -359 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 184.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 143.3 + 76.57 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 953 K) [4]		

Cr (s)	Chromium	Cr (s)
mp = 2130 K (1857 °C)		bp = 2952 K (2679 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 23.6 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.51 + 2.05 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} + 5.95 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2130 K) [4]		
$\lg(p,K) = -21.92 \cdot 10^3 \cdot T^{-1} - 2.79 \cdot \lg(T) + 17.22$ (1300 ... 2130 K) [4]		
{Reaction: evaporation as Cr(g)}		
Cr (s)	Chromium	Cr (s)
$\Delta H_{2130}^0 = 68.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2130}^0 = 87.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cr (l)	Chromium	Cr (l)
$\Delta H_{2130}^0 = 88.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2130}^0 = 97.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2130 K) [4]		
$\lg(p,K) = -19.46 \cdot 10^3 \cdot T^{-1} - 1.36 \cdot \lg(T) + 11.31$ (2130 ... 2954 K) [4]		
{Reaction: evaporation as Cr(g)}		
Cr (l)	Chromium	Cr (l)
$\Delta H_{298}^0 = 26.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 36.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 23.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cr (g)	Chromium	Cr (g)
$\Delta H_{298}^0 = 397.5 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 174.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.98 - 1.99 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^6 \cdot T^{-2} + 1.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
CrCs₂O₄ (s)	Cesium Chromate(VI)	CrCs₂O₄ (s)
Cs ₂ O · CrO ₃ (s)		Cs ₂ O · CrO ₃ (s)
mp = 1248 K (975 °C)		
$\Delta H_{298}^0 = -1429.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 228.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 146.06 + 55.15 \cdot 10^{-3} \cdot T - 1.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1248 K) [4]		

CrF₂ (s)	Chromium(II) Fluoride	CrF₂ (s)
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mp = 1167 K (894 °C)

$$\Delta H_{298}^0 = -778.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 86.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 66.4 + 17.5 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1167 K) [4]}$$

CrF₃ (s)	Chromium(III) Fluoride	CrF₃ (s)
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mp = 1680 K (1407 °C)

$$\Delta H_{298}^0 = -1173.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 93.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 93.97 + 10.25 \cdot 10^{-3} \cdot T - 1.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1680 K) [4]}$$

CrF₄ (s)	Chromium(IV) Fluoride	CrF₄ (s)
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$$\Delta H_{298}^0 = -1246.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 128.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 100.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

CrI₂ (s)	Chromium(II) Iodide	CrI₂ (s)
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mp = 1066 K (793 °C)

$$\Delta H_{298}^0 = -158.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 169 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 66.94 + 22.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1066 K) [4]}$$

$$\lg(p, K) = -16.08 \cdot 10^3 \cdot T^{-1} - 3.53 \cdot \lg(T) + 23.05 \text{ (800 ... 1066 K) [4]}$$

{Reaction: evaporation as CrI₂(g)}

CrI₂O (g)	Chromium Iodide Oxide	CrI₂O (g)
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CrO_{1/2} (g)

CrO_{1/2} (g)

$$\Delta H_{298}^0 = -215.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [64]}$$

$$S_{298}^0 = 357.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [64]}$$

$$C_p^0 = 81.48 + 0.86 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [64]}$$

CrI₂O₂ (g)	Chromium Iodide Oxide	CrI₂O₂ (g)
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CrO_{2/2} (g)

CrO_{2/2} (g)

$$\Delta H_{298}^0 = -330.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [64]}$$

$$S_{298}^0 = 363.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [64]}$$

$$C_p^0 = 106.61 - 1.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [64]}$$

CrI₃ (s)	Chromium(III) Iodide	CrI₃ (s)
$\Delta H_{298}^0 = -205 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 199.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 105.44 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
CrK₂O₄ (s) K ₂ CrO ₄ (s)	Potassium Chromate(VI) alpha	CrK₂O₄ (s) K ₂ CrO ₄ (s)
mp = 1250 K (977 °C)		
$\Delta H_{298}^0 = -1403.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 200.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.72 + 74.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 939 K) [4]		
CrK₂O₄ (s) K ₂ CrO ₄ (s)	Potassium Chromate(VI) alpha	CrK₂O₄ (s) K ₂ CrO ₄ (s)
$\Delta H_{939}^0 = -1294.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{939}^0 = 390.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrK₂O₄ (s) K ₂ CrO ₄ (s)	Potassium Chromate(VI) beta	CrK₂O₄ (s) K ₂ CrO ₄ (s)
$\Delta H_{939}^0 = -1284.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{939}^0 = 400.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 148.53 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (939 ... 1250 K) [4]		
CrK₂O₄ (s) K ₂ CrO ₄ (s)	Potassium Chromate(VI) beta	CrK₂O₄ (s) K ₂ CrO ₄ (s)
$\Delta H_{1250}^0 = -1224.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1250}^0 = 458.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrK₂O₄ (l) K ₂ CrO ₄ (l)	Potassium Chromate(VI)	CrK₂O₄ (l) K ₂ CrO ₄ (l)
$\Delta H_{1250}^0 = -1189.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1250}^0 = 484.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1250 K) [4]		

CrLi₂O₄ (s) Li ₂ CrO ₄ (s)	Lithium Chromate(VI)	CrLi₂O₄ (s) Li ₂ CrO ₄ (s)
$\Delta H_{298}^0 = -1393.7 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [84]		$S_{298}^0 = [143] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [85]
$C_p^0 = [130.12] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [188]		
CrN (s)	Chromium Nitride	CrN (s)
$\Delta H_{298}^0 = -117.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 37.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44.43 + 8.1 \cdot 10^{-3} \cdot T + 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1373 K) [4]		
CrN (g)	Chromium Nitride	CrN (g)
$\Delta H_{298}^0 = 505 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 230.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 30.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CrNaO₂ (s) NaCrO ₂ (s)	Sodium Chromate(III)	CrNaO₂ (s) NaCrO ₂ (s)
$\Delta H_{298}^0 = -818.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 89.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CrNa₂O₄ (s) Na ₂ CrO ₄ (s)	Sodium Chromate(VI) alpha	CrNa₂O₄ (s) Na ₂ CrO ₄ (s)
mp = 1070 K (797 °C)		
$\Delta H_{298}^0 = -1334.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 176.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 101.04 + 140 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 694 K) [4]		
CrNa₂O₄ (s) Na ₂ CrO ₄ (s)	Sodium Chromate(VI) alpha	CrNa₂O₄ (s) Na ₂ CrO ₄ (s)
$\Delta H_{694}^0 = -1266.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{694}^0 = 317.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CrNa₂O₄ (s) Na ₂ CrO ₄ (s)	Sodium Chromate(VI) beta	CrNa₂O₄ (s) Na ₂ CrO ₄ (s)
$\Delta H_{694}^0 = -1257.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 149.96 + 51.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (694 ... 1070 K) [4]		$S_{694}^0 = 331.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrNa₂O₄ (s) Na ₂ CrO ₄ (s)	Sodium Chromate(VI) beta	CrNa₂O₄ (s) Na ₂ CrO ₄ (s)
$\Delta H_{1070}^0 = -1183.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1070}^0 = 415.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrNa₂O₄ (l) Na ₂ CrO ₄ (l)	Sodium Chromate(VI)	CrNa₂O₄ (l) Na ₂ CrO ₄ (l)
$\Delta H_{1070}^0 = -1159.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 204.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1070 K) [4]		$S_{1070}^0 = 438.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrO (g)	Chromium(II) Oxide	CrO (g)
$\Delta H_{298}^0 = 188.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 35.42 + 1.41 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 239.3 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CrO₂ (s)	Chromium(IV) Oxide	CrO₂ (s)
$\Delta H_{298}^0 = -597.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 99.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CrO₂ (g)	Chromium(IV) Oxide	CrO₂ (g)
$\Delta H_{298}^0 = -75.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 52.84 + 2.75 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 269.2 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
CrO₃ (s)	Chromium(VI) Oxide	CrO₃ (s)
mp = 470 K (197 °C) $\Delta H_{298}^0 = -587 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 71.76 + 87.87 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 470 K) [4]		$S_{298}^0 = 73.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CrO₃ (g)	Chromium(VI) Oxide	CrO₃ (g)
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$\Delta H_{298}^0 = -292.9 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 266.2 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 75.71 + 3.84 \cdot 10^{-3} \cdot T - 1.85 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CrO₄Pb (s)	Lead Chromate(VI)	CrO₄Pb (s)
PbCrO ₄ (s)		PbCrO ₄ (s)

$\Delta H_{298}^0 = -931 \text{ kJ}\cdot\text{mol}^{-1}$ [7]	$S_{298}^0 = [178.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [138]
$C_p^0 = [117.57] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [188]	

CrO₄Rb₂ (s)	Rubidium Chromate(VI)	CrO₄Rb₂ (s)
Rb ₂ CrO ₄ (s)		Rb ₂ CrO ₄ (s)

$\Delta H_{298}^0 = -1410.8 \pm 1.9 \text{ kJ}\cdot\text{mol}^{-1}$ [118]	$S_{298}^0 = 215.6 \pm 2.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [118]
$C_p^0 = 146 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [118]	

CrS (s)	Chromium Sulfide	CrS (s)
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mp = 1838 K (1565 °C)

$\Delta H_{298}^0 = -155.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 32.84 + 46.72 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1838 K) [4]	

CrS (g)	Chromium Sulfide	CrS (g)
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$\Delta H_{298}^0 = 347.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 251.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.06 + 0.18 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

CrS_{1.17} (s)	Chromium Sulfide	CrS_{1.17} (s)
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$\Delta H_{298}^0 = -165.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

CrS_{1.2} (s)	Chromium Sulfide	CrS_{1.2} (s)
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$\Delta H_{298}^0 = [-148.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]	$S_{298}^0 = [70.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
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CrS_{1.333} (s)	Chromium Sulfide	CrS_{1.333} (s)
$\Delta H_{298}^0 = [-156.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [71.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CrSi (s)	Chromium Silicide	CrSi (s)
mp = 1686 K (1413 °C)		
$\Delta H_{298}^0 = -54.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 43.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 52.01 + 8.75 \cdot 10^{-3} \cdot T - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1686 K) [4]		
CrSi₂ (s)	Chromium Silicide	CrSi₂ (s)
mp = 1763 K (1490 °C)		
$\Delta H_{298}^0 = -79.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 58.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.61 + 22.51 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1763 K) [4]		
CrSi₂ (s)	Chromium Silicide	CrSi₂ (s)
$\Delta H_{1763}^0 = 48 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1763}^0 = 203.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CrSi₂ (l)	Chromium Silicide	CrSi₂ (l)
$\Delta H_{1763}^0 = 175.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1763}^0 = 276.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1763 K) [4]		
Cr₂ (g)	Chromium	Cr₂ (g)
$\Delta H_{298}^0 = 653.4 \pm 3.7 \text{ kJ}\cdot\text{mol}^{-1}$ [131]		$S_{298}^0 = 228.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [131]
$C_p^0 = 34.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [131]		
Cr₂CuO₄ (s)	Copper Chromate(III)	Cr₂CuO₄ (s)
CuO · Cr ₂ O ₃ (s)		CuO · Cr ₂ O ₃ (s)
$\Delta H_{298}^0 = -1293.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 166.31 + 20.92 \cdot 10^{-3} \cdot T - 2.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]		

Cr₂FeO₄ (s)	Iron Chromate(III)	Cr₂FeO₄ (s)
FeO · Cr ₂ O ₃ (s)		FeO · Cr ₂ O ₃ (s)

mp = 1898 K (1625 °C)

$$\Delta H_{298}^0 = -1458.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 146.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 163.01 + 22.34 \cdot 10^{-3} \cdot T - 3.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1898 \text{ K}) [4]$$

Cr₂I₄ (g)	Chromium(II) Iodide	Cr₂I₄ (g)
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$$\Delta H_{298}^0 = 15.9 \text{ kJ}\cdot\text{mol}^{-1} [284]$$

$$S_{298}^0 = 532 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [284]$$

$$C_p^0 = 132.92 + 0.06 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [284]$$

Cr₂K₂O₇ (s)	Potassium Dichromate	Cr₂K₂O₇ (s)
K ₂ Cr ₂ O ₇ (s)		K ₂ Cr ₂ O ₇ (s)

$$\Delta H_{298}^0 = -2062 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 291 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 219 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

Cr₂MgO₄ (s)	Magnesium Chromate(III)	Cr₂MgO₄ (s)
MgO · Cr ₂ O ₃ (s)		MgO · Cr ₂ O ₃ (s)

mp = 2623 K (2350 °C)

$$\Delta H_{298}^0 = -1777.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 105.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 167.44 + 14.9 \cdot 10^{-3} \cdot T - 4.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Cr₂N (s)	Chromium Nitride	Cr₂N (s)
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$$\Delta H_{298}^0 = -125.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 64.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 65.15 + 26.23 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1785 \text{ K}) [4]$$

Cr₂Na₂O₄ (s)	Sodium Chromate(III)	Cr₂Na₂O₄ (s)
Na ₂ O · Cr ₂ O ₃ (s)		Na ₂ O · Cr ₂ O ₃ (s)

$$\Delta H_{298}^0 = -1758.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 166.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 189.12 + 30.13 \cdot 10^{-3} \cdot T - 1.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1200 \text{ K}) [4]$$

Cr₂Na₂O₇ (s) Na ₂ Cr ₂ O ₇ (s)	Sodium Dichromate	Cr₂Na₂O₇ (s) Na ₂ Cr ₂ O ₇ (s)
$\Delta H_{298}^0 = -1979 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = [276.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [186]
Cr₂Nb (s) NbCr ₂ (s)	Niobium Chromium	Cr₂Nb (s) NbCr ₂ (s)
$\Delta H_{298}^0 = -20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 74.27 + 23.77 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [3]		
Cr₂NiO₄ (s) NiO · Cr ₂ O ₃ (s)	Nickel Chromate(III)	Cr₂NiO₄ (s) NiO · Cr ₂ O ₃ (s)
$\Delta H_{298}^0 = -1392.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 129.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.15 + 17.87 \cdot 10^{-3} \cdot T - 2.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
Cr₂O₃ (s)	Chromium(III) Oxide	Cr₂O₃ (s)
mp = 2603 K (2330 °C)		
$\Delta H_{298}^0 = -1134.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 81.2 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 109.65 + 15.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cr₂O₃ (l)	Chromium(III) Oxide	Cr₂O₃ (l)
$\Delta H_{298}^0 = -1018.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 125.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 101.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Cr₂O₄Zn (s) ZnO · Cr ₂ O ₃ (s)	Zinc Chromate(III)	Cr₂O₄Zn (s) ZnO · Cr ₂ O ₃ (s)
$\Delta H_{298}^0 = -1553.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 116.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.36 + 14.23 \cdot 10^{-3} \cdot T - 2.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		

Cr₂O₁₂S₃ (s) Cr ₂ (SO ₄) ₃ (s)	Chromium(III) Sulfate	Cr₂O₁₂S₃ (s) Cr ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -2931.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 258.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 358.07 + 79.5 \cdot 10^{-3} \cdot T - 8.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1010 K) [4]		
Cr₂S₃ (s)	Chromium(III) Sulfide	Cr₂S₃ (s)
$\Delta H_{298}^0 = [-334.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [148.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Cr₂Ta (s) TaCr ₂ (s)	Tantalum Chromium	Cr₂Ta (s) TaCr ₂ (s)
mp = 2293 K (2020 °C)		
$\Delta H_{298}^0 = -27 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 88.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.85 + 22.8 \cdot 10^{-3} \cdot T - 0.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1968 K) [4]		
Cr₃La₂O₁₂ (s) La ₂ (CrO ₄) ₃ (s)	Lanthanum Chromate(VI)	Cr₃La₂O₁₂ (s) La ₂ (CrO ₄) ₃ (s)
$\Delta H_{298}^0 = -3962.2 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = [457.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [85, 87]
Cr₃Si (s)	Chromium Silicide	Cr₃Si (s)
mp = 2043 K (1770 °C)		
$\Delta H_{298}^0 = -92.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 85.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.22 + 42.38 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2043 K) [4]		
Cr₅Si₃ (s)	Chromium Silicide	Cr₅Si₃ (s)
mp = 1953 K (1680 °C)		
$\Delta H_{298}^0 = -211.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 169 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 198.57 + 49.29 \cdot 10^{-3} \cdot T - 2.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1300 K) [4]		

Cs (s)	Cesium	Cs (s)
mp = 302 K (29 °C)		bp = 930 K (657 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 85.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Cs (s)	Cesium	Cs (s)
$\Delta H_{302}^0 = 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{302}^0 = 85.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs (l)	Cesium	Cs (l)
$\Delta H_{302}^0 = 2.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{302}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 29.91 + 0.88 \cdot 10^{-3} \cdot T + 0.2 \cdot 10^6 \cdot T^{-2} + 0.01 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (302 ... 930 K) [4]		
Cs (l)	Cesium	Cs (l)
$\Delta H_{298}^0 = 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 92.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.91 + 0.88 \cdot 10^{-3} \cdot T + 0.2 \cdot 10^6 \cdot T^{-2} + 0.01 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (302 ... 930 K) [4]		
Cs (g)	Cesium	Cs (g)
$\Delta H_{298}^0 = 76.5 \pm 1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 175.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
$\lg(p, K) = -4.15 \cdot 10^3 \cdot T^{-1} - 1.39 \cdot \lg(T) + 8.77$ (298 ... 302 K) [4]		
{Reaction: evaporation of Cs(l)}		
CsF (s)	Cesium Fluoride	CsF (s)
mp = 976 K (703 °C)		bp = 1502 K (1229 °C)
$\Delta H_{298}^0 = -553.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 10.3 + 96.13 \cdot 10^{-3} \cdot T + 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 976 K) [4]		
CsF (s)	Cesium Fluoride	CsF (s)
$\Delta H_{976}^0 = -510.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{976}^0 = 175.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CsF (l)	Cesium Fluoride	CsF (l)
$\Delta H_{976}^0 = -480.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{976}^0 = 198.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (976 K) [4]		
CsF (l)	Cesium Fluoride	CsF (l)
$\Delta H_{298}^0 = -543.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 90.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CsF (g)	Cesium Fluoride	CsF (g)
$\Delta H_{298}^0 = -374.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 243.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.34 + 0.61 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -10.65 \cdot 10^3 \cdot T^{-1} - 6.08 \cdot \lg(T) + 26.68$ (600 ... 976 K) [4]		
{Reaction: evaporation of CsF(s)}		
CsF₆U (s)	Cesium Uranium Fluoride	CsF₆U (s)
CsUF ₆ (s)		CsUF ₆ (s)
$\Delta H_{298}^0 = -2756 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [245]		$S_{298}^0 = [272.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [250, 8]
$C_p^0 = [183.38] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
CsH (s)	Cesium Hydride	CsH (s)
$\Delta H_{298}^0 = -54.01 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 66.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.17 + 35.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 619 K) [4]		
CsH (g)	Cesium Hydride	CsH (g)
$\Delta H_{298}^0 = 116.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 215.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.78 + 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CsHO (s)	Cesium Hydroxide	CsHO (s)
CsOH (s)		CsOH (s)
mp = 588 K (315 °C)		
$\Delta H_{298}^0 = -416.7 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 98.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.65 + 52.93 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 410 K) [4]		

CsHO (l) CsOH (l)	Cesium Hydroxide	CsHO (l) CsOH (l)
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$$\Delta H_{298}^0 = -406 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 81.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 118.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

CsHO (g) CsOH (g)	Cesium Hydroxide	CsHO (g) CsOH (g)
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$$\Delta H_{298}^0 = -259.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 51.05 + 4.06 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 254.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$\lg(p, K) = -8.03 \cdot 10^3 \cdot T^{-1} - 3.27 \cdot \lg(T) + 16.5 (588 \dots 1253 \text{ K}) [4]$$

{Reaction: evaporation of CsOH(l)}

CsI (s)	Cesium Iodide	CsI (s)
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$$\text{mp} = 905 \text{ K} (632 \text{ }^\circ\text{C})$$

$$\text{bp} = 1556 \text{ K} (1283 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -346.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 122.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.62 + 30.92 \cdot 10^{-3} \cdot T + 0.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 905 \text{ K}) [4]$$

$$\lg(p, K) = -10.66 \cdot 10^3 \cdot T^{-1} - 2.95 \cdot \lg(T) + 16.94 (700 \dots 905 \text{ K}) [4]$$

{Reaction: evaporation as CsI(g)}

CsI (s)	Cesium Iodide	CsI (s)
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$$\Delta H_{905}^0 = -311.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{905}^0 = 185.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CsI (l)	Cesium Iodide	CsI (l)
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$$\Delta H_{905}^0 = -285.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{905}^0 = 213.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 71.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (905 \text{ K}) [4]$$

$$\lg(p, K) = -9.69 \cdot 10^3 \cdot T^{-1} - 3.9 \cdot \lg(T) + 18.68 (905 \dots 1556 \text{ K}) [4]$$

{Reaction: evaporation as CsI(g)}

CsI (g)	Cesium Iodide	CsI (g)
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$$\Delta H_{298}^0 = -152.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 275.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 38.92 - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CsNO₂ (s)	Cesium Nitrite	CsNO₂ (s)
mp = 679 K (406 °C)		
$\Delta H_{298}^0 = -369.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 181.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 91.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
CsNO₃ (s)	Cesium Nitrate alpha	CsNO₃ (s)
mp = 680 K (407 °C)		
$\Delta H_{298}^0 = -505.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 153.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.76 + 110.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 426 K) [4]		
CsNO₃ (s)	Cesium Nitrate alpha	CsNO₃ (s)
$\Delta H_{426}^0 = -492.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{426}^0 = 190.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CsNO₃ (s)	Cesium Nitrate beta	CsNO₃ (s)
$\Delta H_{426}^0 = -488.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{426}^0 = 199.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 126.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (426 K) [4]		
CsNO₃ (s)	Cesium Nitrate beta	CsNO₃ (s)
$\Delta H_{680}^0 = -456.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{680}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CsNO₃ (l)	Cesium Nitrate	CsNO₃ (l)
$\Delta H_{680}^0 = -442.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{680}^0 = 278.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 135.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (680 K) [4]		
CsO (g)	Cesium Oxide	CsO (g)
$\Delta H_{298}^0 = 62.8 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

CsO₂ (s)	Cesium Superoxide	CsO₂ (s)
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mp = 830 K (557 °C)

$$\Delta H_{298}^0 = -286.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 142.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 72.38 + 30.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 830 \text{ K}) [4]$$

Cs₂ (g)	Cesium	Cs₂ (g)
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$$\Delta H_{298}^0 = 107.4 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 284.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.24 + 2.73 \cdot 10^{-3} \cdot T + 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -5.7 \cdot 10^3 \cdot T^{-1} - 2.93 \cdot \lg(T) + 13.78 (400 \dots 930 \text{ K}) [4]$$

{Reaction: evaporation of Cs(l)}

Cs₂F₂ (g) (CsF) ₂ (g)	Cesium Fluoride	Cs₂F₂ (g) (CsF) ₂ (g)
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$$\Delta H_{298}^0 = -922.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 352.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.08 + 0.02 \cdot 10^{-3} \cdot T + 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -12.14 \cdot 10^3 \cdot T^{-1} - 11.14 \cdot \lg(T) + 43.5 (600 \dots 976 \text{ K}) [4]$$

{Reaction: evaporation of CsF(s)}

Cs₂H₂O₂ (g) (CsOH) ₂ (g)	Cesium Hydroxide	Cs₂H₂O₂ (g) (CsOH) ₂ (g)
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$$\Delta H_{298}^0 = -687.8 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 360.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 96.43 + 14.95 \cdot 10^{-3} \cdot T - 1.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -7.11 \cdot 10^3 \cdot T^{-1} - 6.76 \cdot \lg(T) + 25.51 (588 \dots 1253 \text{ K}) [4]$$

{Reaction: evaporation of CsOH(l)}

Cs₂I₂ (g) (CsI) ₂ (g)	Cesium Iodide	Cs₂I₂ (g) (CsI) ₂ (g)
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$$\Delta H_{298}^0 = -466.4 \pm 1.1 \text{ kJ}\cdot\text{mol}^{-1} [12]$$

$$S_{298}^0 = [429.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [13]$$

Cs₂MnO₄ (s)	Cesium Manganate(VI)	Cs₂MnO₄ (s)
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$$\Delta H_{298}^0 = -1188.3 \pm 3 \text{ kJ}\cdot\text{mol}^{-1} [139]$$

$$S_{298}^0 = [228] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [140]$$

Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)	Cesium Molybdate alpha	Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)
mp = 1230 K (957 °C)		
$\Delta H_{298}^0 = -1507.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 248.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 116.4 + 108.24 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 841 K) [4]		
Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)	Cesium Molybdate alpha	Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)
$\Delta H_{841}^0 = -1410.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 427.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)	Cesium Molybdate beta	Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)
$\Delta H_{841}^0 = -1405.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 433.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 122.17 + 97.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (841 ... 1230 K) [4]		
Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)	Cesium Molybdate beta	Cs₂MoO₄ (s) Cs ₂ O · MoO ₃ (s)
$\Delta H_{1230}^0 = -1319.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1230}^0 = 517.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂MoO₄ (l) Cs ₂ O · MoO ₃ (l)	Cesium Molybdate	Cs₂MoO₄ (l) Cs ₂ O · MoO ₃ (l)
$\Delta H_{1230}^0 = -1287.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1230}^0 = 543.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 210.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1230 K) [4]		
Cs₂NpO₄ (s) Cs ₂ O · NpO ₃ (s)	Cesium Neptunium Oxide	Cs₂NpO₄ (s) Cs ₂ O · NpO ₃ (s)
$\Delta H_{298}^0 = -1789.3 \text{ kJ}\cdot\text{mol}^{-1}$ [14]		$S_{298}^0 = [245.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [233, 8]
$C_p^0 = [157.06] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

Cs₂O (s)	Cesium Oxide	Cs₂O (s)
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mp = 768 K (495 °C)

 $\Delta H_{298}^0 = -346 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 146.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 66.36 + 32.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 768 K) [4]

Cs₂O (g)	Cesium Oxide	Cs₂O (g)
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 $\Delta H_{298}^0 = -92 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 318.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 58.07 + 0.08 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Cs₂O₃Si (s)	Cesium Silicate	Cs₂O₃Si (s)
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Cs₂O · SiO₂ (s)Cs₂O · SiO₂ (s)

mp = 1100 K (827 °C)

 $\Delta H_{298}^0 = -1558.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 175.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 113.72 + 74.64 \cdot 10^{-3} \cdot T - 1.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]

Cs₂O₃Si (s)	Cesium Silicate	Cs₂O₃Si (s)
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Cs₂O · SiO₂ (s)Cs₂O · SiO₂ (s) $\Delta H_{1100}^0 = -1428.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1100}^0 = 377.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cs₂O₃Si (l)	Cesium Silicate	Cs₂O₃Si (l)
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Cs₂O · SiO₂ (l)Cs₂O · SiO₂ (l) $\Delta H_{1100}^0 = -1388.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1100}^0 = 413.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 194.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1100 K) [4]

Cs₂O₃Te (s)	Cesium Tellurium Oxide	Cs₂O₃Te (s)
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Cs₂O · TeO₂ (s)Cs₂O · TeO₂ (s) $\Delta H_{298}^0 = -993.2 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [144] $S_{298}^0 = [221.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [145] $C_p^0 = [139.79] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

Cs₂O₃Zr (s) Cs ₂ O · ZrO ₂ (s)	Cesium Zirconium Oxide	Cs₂O₃Zr (s) Cs ₂ O · ZrO ₂ (s)
$\Delta H_{298}^0 = -1584.8 \pm 1.9 \text{ kJ}\cdot\text{mol}^{-1}$ [148]		$S_{298}^0 = [197.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [149]
$C_p^0 = [132.12] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Cs₂O₄Ru (s) Cs ₂ O · RuO ₃ (s)	Cesium Ruthenium Oxide	Cs₂O₄Ru (s) Cs ₂ O · RuO ₃ (s)
$\Delta H_{298}^0 = -946.6 \pm 5.3 \text{ kJ}\cdot\text{mol}^{-1}$ [236]		$S_{298}^0 = [224.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [237, 8]
Cs₂O₄S (s) Cs ₂ SO ₄ (s)	Cesium Sulfate alpha	Cs₂O₄S (s) Cs ₂ SO ₄ (s)
mp = 1278 K (1005 °C)		
$\Delta H_{298}^0 = -1442.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 211.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 85.48 + 151.04 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 940 K) [4]		
Cs₂O₄S (s) Cs ₂ SO ₄ (s)	Cesium Sulfate alpha	Cs₂O₄S (s) Cs ₂ SO ₄ (s)
$\Delta H_{940}^0 = -1327.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{940}^0 = 407 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂O₄S (s) Cs ₂ SO ₄ (s)	Cesium Sulfate beta	Cs₂O₄S (s) Cs ₂ SO ₄ (s)
$\Delta H_{940}^0 = -1323.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{940}^0 = 411.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.4 + 158.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (940 ... 1278 K) [4]		
Cs₂O₄S (s) Cs ₂ SO ₄ (s)	Cesium Sulfate beta	Cs₂O₄S (s) Cs ₂ SO ₄ (s)
$\Delta H_{1278}^0 = -1251.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1278}^0 = 476.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cs₂O₄S (l) Cs ₂ SO ₄ (l)	Cesium Sulfate	Cs₂O₄S (l) Cs ₂ SO ₄ (l)
$\Delta H^0_{1278} = -1216.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 207.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1278 K) [4]		$S^0_{1278} = 504.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂O₄S (l) Cs ₂ SO ₄ (l)	Cesium Sulfate	Cs₂O₄S (l) Cs ₂ SO ₄ (l)
$\Delta H^0_{298} = -1400.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 135.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S^0_{298} = 246.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cs₂O₄S (g) Cs ₂ SO ₄ (g)	Cesium Sulfate	Cs₂O₄S (g) Cs ₂ SO ₄ (g)
$\Delta H^0_{298} = -1122.6 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 145.37 + 6.52 \cdot 10^{-3} \cdot T - 3.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2292 K) [4]		$S^0_{298} = 406.5 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Cs₂O₄U (s) Cs ₂ O · UO ₃ (s)	Cesium Uranate	Cs₂O₄U (s) Cs ₂ O · UO ₃ (s)
$\Delta H^0_{298} = -1926.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 164.85 + 17.03 \cdot 10^{-3} \cdot T - 1.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 100 K) [4]		$S^0_{298} = 219.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂O₅Si₂ (s) Cs ₂ O · 2SiO ₂ (s)	Cesium Silicate	Cs₂O₅Si₂ (s) Cs ₂ O · 2SiO ₂ (s)
mp = 1343 K (1070 °C) $\Delta H^0_{298} = -2489.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 185.35 + 65.48 \cdot 10^{-3} \cdot T - 2.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1343 K) [4]		$S^0_{298} = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂O₅Si₂ (s) Cs ₂ O · 2SiO ₂ (s)	Cesium Silicate	Cs₂O₅Si₂ (s) Cs ₂ O · 2SiO ₂ (s)
$\Delta H^0_{1343} = -2246.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1343} = 543.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cs₂O₅Si₂ (l) Cs ₂ O · 2SiO ₂ (l)	Cesium Silicate	Cs₂O₅Si₂ (l) Cs ₂ O · 2SiO ₂ (l)
$\Delta H^0_{1343} = -2194.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1343} = 582.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 271.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1343 K) [4]		
Cs₂O₅Te₂ (s) Cs ₂ Te ₂ O ₅ (s)	Cesium Tellurite	Cs₂O₅Te₂ (s) Cs ₂ Te ₂ O ₅ (s)
$\Delta H^0_{298} = -1352.4 \pm 6.4 \text{ kJ}\cdot\text{mol}^{-1}$ [144]		$S^0_{298} = [295.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [146]
$C_p^0 = [203.68] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Cs₂O₉Si₄ (s) Cs ₂ O · 4SiO ₂ (s)	Cesium Silicate	Cs₂O₉Si₄ (s) Cs ₂ O · 4SiO ₂ (s)
mp = 1223 K (950 °C)		
$\Delta H^0_{298} = -4341.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 292.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 262.09 + 121.55 \cdot 10^{-3} \cdot T - 2.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1223 K) [4]		
Cs₂O₉Si₄ (s) Cs ₂ O · 4SiO ₂ (s)	Cesium Silicate	Cs₂O₉Si₄ (s) Cs ₂ O · 4SiO ₂ (s)
$\Delta H^0_{1223} = -4019.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1223} = 763.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cs₂O₉Si₄ (l) Cs ₂ O · 4SiO ₂ (l)	Cesium Silicate	Cs₂O₉Si₄ (l) Cs ₂ O · 4SiO ₂ (l)
$\Delta H^0_{1223} = -3975.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1223} = 799.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 410.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1223 K) [4]		
Cs₂O₉Te₄ (s) Cs ₂ Te ₄ O ₉ (s)	Cesium Tellurite	Cs₂O₉Te₄ (s) Cs ₂ Te ₄ O ₉ (s)
$\Delta H^0_{298} = -2033.3 \pm 12.8 \text{ kJ}\cdot\text{mol}^{-1}$ [144]		$S^0_{298} = [444.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [147]
$C_p^0 = [331.46] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

Cs₂S (s)	Cesium Sulfide	Cs₂S (s)
$\Delta H_{298}^0 = -342.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [146.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Cs₃O₄P (s) Cs ₃ PO ₄ (s)	Cesium Phosphate	Cs₃O₄P (s) Cs ₃ PO ₄ (s)
$\Delta H_{298}^0 = -1909 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [139]		$S_{298}^0 = [267] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [141]
Cs₃P₇ (s)	Cesium Phosphide	Cs₃P₇ (s)
$\Delta H_{298}^0 = -66 \pm 6 \text{ kJ}\cdot\text{mol}^{-1}$ [10]		$S_{298}^0 = 756 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [10]
Cu (s)	Copper	Cu (s)
mp = 1358 K (1085 °C)		bp = 2833 K (2560 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 33.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.53 + 8.61 \cdot 10^{-3} \cdot T + 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1358 K) [4]		
$\lg(p, K) = -17.92 \cdot 10^3 \cdot T^{-1} - 1.2 \cdot \lg(T) + 10.74$ (1200 ... 1358 K) [4]		
{Reaction: evaporation as Cu(g)}		
Cu (s)	Copper	Cu (s)
$\Delta H_{1358}^0 = 29.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1358}^0 = 74.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu (l)	Copper	Cu (l)
$\Delta H_{1358}^0 = 42.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1358}^0 = 83.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1358 K) [4]		
$\lg(p, K) = -17.35 \cdot 10^3 \cdot T^{-1} - 1.41 \cdot \lg(T) + 10.98$ (1358 ... 2000 K) [4]		
{Reaction: evaporation as Cu(g)}		
Cu (l)	Copper	Cu (l)
$\Delta H_{298}^0 = 11.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Cu (g)	Copper	Cu (g)
$\Delta H_{298}^0 = 337.6 \pm 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 166.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
CuF (s)	Copper(I) Fluoride	CuF (s)
$\Delta H_{298}^0 = -280.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 64.9 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 60.12 + 4.1 \cdot 10^{-3} \cdot T - 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1344 K) [4]		
$\lg(p, K) = -10.69 \cdot 10^3 \cdot T^{-1} - 3.04 \cdot \lg(T) + 17.47$ (600 ... 1344 K) [4]		
{Reaction: evaporation as CuF(g)}		
CuF (g)	Copper(I) Fluoride	CuF (g)
$\Delta H_{298}^0 = -12.6 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 226.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.07 + 0.75 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CuF₂ (s)	Copper(II) Fluoride	CuF₂ (s)
mp = 1109 K (836 °C)		bp = 1943 K (1670 °C)
$\Delta H_{298}^0 = -538.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 77.5 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.01 + 19.96 \cdot 10^{-3} \cdot T - 1.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1109 K) [4]		
$\lg(p, K) = -14.96 \cdot 10^3 \cdot T^{-1} - 4.02 \cdot \lg(T) + 22.1$ (800 ... 1109 K) [4]		
{Reaction: evaporation as CuF ₂ (g)}		
CuF₂ (s)	Copper(II) Fluoride	CuF₂ (s)
$\Delta H_{1109}^0 = -471.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1109}^0 = 182.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CuF₂ (l)	Copper(II) Fluoride	CuF₂ (l)
$\Delta H_{1109}^0 = -416.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1109}^0 = 232.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1109 K) [4]		
$\lg(p, K) = -12.58 \cdot 10^3 \cdot T^{-1} - 5.1 \cdot \lg(T) + 23.25$ (1109 ... 1943 K) [4]		
{Reaction: evaporation as CuF ₂ (g)}		

CuF₂ (l)	Copper(II) Fluoride	CuF₂ (l)
$\Delta H_{298}^0 = -487.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
CuF₂ (g)	Copper(II) Fluoride	CuF₂ (g)
$\Delta H_{298}^0 = -266.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 267.1 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.88 + 2.28 \cdot 10^{-3} \cdot T - 0.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CuFeO₂ (s)	Iron Copper Oxide alpha	CuFeO₂ (s)
$\Delta H_{298}^0 = -513 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 88.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 97.99 + 7.53 \cdot 10^{-3} \cdot T - 1.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1091 K) [3]		
CuFeS₂ (s) CuS · FeS (s)	Iron Copper Sulfide alpha, Chalcopyrite	CuFeS₂ (s) CuS · FeS (s)
$\Delta H_{298}^0 = -307.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 298.63 - 542.43 \cdot 10^{-3} \cdot T - 7.24 \cdot 10^6 \cdot T^{-2} + 445.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 830 K) [4]		
CuFeS₂ (s) CuS · FeS (s)	Iron Copper Sulfide alpha, Chalcopyrite	CuFeS₂ (s) CuS · FeS (s)
$\Delta H_{830}^0 = -245.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{830}^0 = 240.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 144.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (830 K) [4]		
CuFeS₂ (s) CuS · FeS (s)	Iron Copper Sulfide beta, Chalcopyrite	CuFeS₂ (s) CuS · FeS (s)
$\Delta H_{830}^0 = -235.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{830}^0 = 252.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -24.73 + 221.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (830 ... 1000 K) [4]		

CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)	Iron Copper Oxide alpha	CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -966.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 146.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 138.74 + 119 \cdot 10^{-3} \cdot T - 2.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 675 \text{ K}) [4]$$

CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)	Iron Copper Oxide alpha	CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)
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$$\Delta H_{675}^0 = -896.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{675}^0 = 294.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)	Iron Copper Oxide beta	CuFe₂O₄ (s) CuO · Fe ₂ O ₃ (s)
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$$\Delta H_{675}^0 = -895.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{675}^0 = 295.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 237.39 - 14 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (675 \dots 795 \text{ K}) [4]$$

CuGa₂O₄ (s) CuO · Ga ₂ O ₃ (s)	Gallium Copper Oxide	CuGa₂O₄ (s) CuO · Ga ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -1228.0 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 161.15 + 22.91 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

CuH (g)	Copper Hydride	CuH (g)
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$$\Delta H_{298}^0 = 274.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 196.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 30.84 + 3.77 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

CuH₂O₂ (s) Cu(OH) ₂ (s)	Copper(II) Hydroxide	CuH₂O₂ (s) Cu(OH) ₂ (s)
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$$\Delta H_{298}^0 = -450.4 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 95.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

CuH₂O₅S (s) CuSO ₄ · H ₂ O (s)	Copper(II) Sulfate Monohydrate	CuH₂O₅S (s) CuSO ₄ · H ₂ O (s)
$\Delta H_{298}^0 = -1085.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 146 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuH₆O₇S (s) CuSO ₄ · 3H ₂ O (s)	Copper(II) Sulfate Trihydrate	CuH₆O₇S (s) CuSO ₄ · 3H ₂ O (s)
$\Delta H_{298}^0 = -1684.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 205 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 221.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuH₁₀O₉S (s) CuSO ₄ · 5H ₂ O (s)	Copper(II) Sulfate Pentahydrate	CuH₁₀O₉S (s) CuSO ₄ · 5H ₂ O (s)
$\Delta H_{298}^0 = -2279.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 281.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 300.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuI (s)	Copper(I) Iodide alpha	CuI (s)
mp = 868 K (595 °C) $\Delta H_{298}^0 = -68 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.63 - 6.44 \cdot 10^{-3} \cdot T - 0.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 642 K) [4]		bp = 1675 K (1402 °C) $S_{298}^0 = 96.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuI (s)	Copper(I) Iodide alpha	CuI (s)
$\Delta H_{642}^0 = -48.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{642}^0 = 139.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CuI (s)	Copper(I) Iodide beta	CuI (s)
$\Delta H_{642}^0 = -41.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (642 K) [4]		$S_{642}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cul (s)	Copper(I) Iodide beta	Cul (s)
$\Delta H_{680}^0 = -39.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{680}^0 = 154.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cul (s)	Copper(I) Iodide gamma	Cul (s)
$\Delta H_{680}^0 = -36 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 59.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (680 K) [4]		$S_{680}^0 = 159.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cul (s)	Copper(I) Iodide gamma	Cul (s)
$\Delta H_{868}^0 = -24.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{868}^0 = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cul (l)	Copper(I) Iodide	Cul (l)
$\Delta H_{868}^0 = -15.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 64.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (868 K) [4]		$S_{868}^0 = 184.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cul (g)	Copper(I) Iodide	Cul (g)
$\Delta H_{298}^0 = 142.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 37.41 + 0.5 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(\rho, K) = -10.83 \cdot 10^3 \cdot T^{-1} - 2.62 \cdot \lg(T) + 15.21$ (700 ... 868 K) [4] {Reaction: evaporation of Cul(s)}		$S_{298}^0 = 255.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuMg₂ (s)	Copper Magnesium	CuMg₂ (s)
mp = 841 K (568 °C) $\Delta H_{298}^0 = -29.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 61.09 + 29.71 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 841 K) [4]		$S_{298}^0 = 92.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
CuMg₂ (s)	Copper Magnesium	CuMg₂ (s)
$\Delta H_{841}^0 = 12.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 171.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

CuMg₂ (l)	Copper Magnesium	CuMg₂ (l)
$\Delta H_{841}^0 = 48.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{841}^0 = 214.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (841 K) [4]		
CuMoO₄ (s)	Copper Molybdate	CuMoO₄ (s)
CuO · MoO ₃ (s)		CuO · MoO ₃ (s)
$\Delta H_{298}^0 = -911.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 117.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CuO (s)	Copper(II) Oxide	CuO (s)
$\Delta H_{298}^0 = -156.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 42.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.6 + 7.43 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1364 K) [4]		
CuO (g)	Copper(II) Oxide	CuO (g)
$\Delta H_{298}^0 = 306.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 234.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.73 + 3.52 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CuO₂Y (s)	Yttrium Copper Oxide	CuO₂Y (s)
YCuO ₂ (s)		YCuO ₂ (s)
$\Delta H_{298}^0 = -1036.4 \pm 2.6 \text{ kJ}\cdot\text{mol}^{-1}$ [59]		$S_{298}^0 = 88.05 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [59]
$C_p^0 = 84.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [59]		
CuO₃Se (s)	Copper(II) Selenite	CuO₃Se (s)
CuSeO ₃ (s)		CuSeO ₃ (s)
$\Delta H_{298}^0 = -431.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 103.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 97.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

CuO₄S (s) CuSO ₄ (s)	Copper(II) Sulfate	CuO₄S (s) CuSO ₄ (s)
$\Delta H_{298}^0 = -770 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 109.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.43 + 152.84 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} - 71.59 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1075 K) [4]		
CuP₂ (s)	Copper Phosphide	CuP₂ (s)
$\Delta H_{298}^0 = -121 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
CuS (s)	Copper(II) Sulfide	CuS (s)
$\Delta H_{298}^0 = -53.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.35 + 11.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 774 K) [4]		
CuS (g)	Copper(II) Sulfide	CuS (g)
$\Delta H_{298}^0 = 320.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 252.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.27 + 0.08 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CuSe (s)	Copper(II) Selenide alpha	CuSe (s)
$\Delta H_{298}^0 = -41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 54.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
CuSe (s)	Copper(II) Selenide alpha	CuSe (s)
$\Delta H_{326}^0 = -40.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{326}^0 = 83.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
CuSe (s)	Copper(II) Selenide beta	CuSe (s)
$\Delta H_{326}^0 = -38.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{326}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (326 K) [4]		

CuSe (g)	Copper(II) Selenide	CuSe (g)
$\Delta H_{298}^0 = 309.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 264.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.36 + 0.03 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
CuSe₂ (s)	Copper Selenide	CuSe₂ (s)
$\Delta H_{298}^0 = -48.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [107.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
CuTe (s)	Copper(II) Telluride	CuTe (s)
$\Delta H_{298}^0 = -25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 86.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.34 + 40.38 \cdot 10^{-3} \cdot T + 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 613 K) [4]		
CuTe (g)	Copper(II) Telluride	CuTe (g)
$\Delta H_{298}^0 = 307.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 272.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.39 + 0.01 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cu_{1.31}Te (s)	Copper Telluride	Cu_{1.31}Te (s)
$\Delta H_{298}^0 = [-29.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [102.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Cu_{1.41}Te (s)	Copper Telluride	Cu_{1.41}Te (s)
$\Delta H_{298}^0 = [-31.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [106.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Cu₂ (g)	Copper	Cu₂ (g)
$\Delta H_{298}^0 = 485.3 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 241.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.39 + 0.74 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Cu₂Fe₂O₄ (s)	Iron Copper Oxide alpha	Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)
mp = 1470 K (1197 °C)		
$\Delta H_{298}^0 = -1025.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 177.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 200.08 + 20.25 \cdot 10^{-3} \cdot T - 3.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1091 K) [4]		

Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)	Iron Copper Oxide alpha	Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)
$\Delta H^0_{1091} = -863.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1091} = 435.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)	Iron Copper Oxide beta	Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)
$\Delta H^0_{1091} = -862.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1091} = 436.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182.84 + 30.29 \cdot 10^{-3} \cdot T + 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1091 K) [4]		
Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)	Iron Copper Oxide beta	Cu₂Fe₂O₄ (s) Cu ₂ O · Fe ₂ O ₃ (s)
$\Delta H^0_{1470} = -778.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1470} = 502.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂Fe₂O₄ (l) Cu ₂ O · Fe ₂ O ₃ (l)	Iron Copper Oxide	Cu₂Fe₂O₄ (l) Cu ₂ O · Fe ₂ O ₃ (l)
$\Delta H^0_{1470} = -650 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1470} = 590.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 253.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1470 K) [4]		
Cu₂Ga₂O₄ (s) Cu ₂ O · Ga ₂ O ₃ (s)	Gallium Copper Oxide	Cu₂Ga₂O₄ (s) Cu ₂ O · Ga ₂ O ₃ (s)
$\Delta H^0_{298} = -1274.0 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 166.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 170.75 + 38.8 \cdot 10^{-3} \cdot T - 3.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Cu₂Mg (s)	Copper Magnesium	Cu₂Mg (s)
mp = 1070 K (797 °C)		
$\Delta H^0_{298} = -35.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 98.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 66.61 + 24.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1070 K) [4]		
Cu₂Mg (s)	Copper Magnesium	Cu₂Mg (s)
$\Delta H^0_{1070} = 28.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1070} = 201.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cu₂Mg (l)	Copper Magnesium	Cu₂Mg (l)
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$$\Delta H_{1070}^0 = 70.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1070}^0 = 240.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 95.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1070 K) [4]}$$

Cu₂O (s)	Copper(I) Oxide	Cu₂O (s)
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$$\text{mp} = 1517 \text{ K (1244 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -170.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 92.4 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 58.2 + 23.97 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1517 K) [4]}$$

$$\lg(\rho, K) = -18.34 \cdot 10^3 \cdot T^{-1} - 1.78 \cdot \lg(T) + 13.72 \text{ (1100 ... 1358 K) [4]}$$

{Reaction: decomposition $2\text{Cu}_2\text{O}(\text{s}) = 4\text{Cu}(\text{s}) + \text{O}_2(\text{g})$ }

Cu₂O (s)	Copper(I) Oxide	Cu₂O (s)
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$$\Delta H_{1517}^0 = -73.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1517}^0 = 215.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

Cu₂O (l)	Copper(I) Oxide	Cu₂O (l)
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$$\Delta H_{1517}^0 = -8.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1517}^0 = 258.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1517 K) [4]}$$

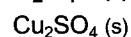
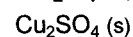
Cu₂O (l)	Copper(I) Oxide	Cu₂O (l)
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$$\Delta H_{298}^0 = -112 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 62.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

Cu₂O₄S (s)	Copper(I) Sulfate	Cu₂O₄S (s)
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$$\Delta H_{298}^0 = -751.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 182.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 120.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

Cu₂O₅S (s)	Copper Sulfate Oxide	Cu₂O₅S (s)
CuO · CuSO ₄ (s)		CuO · CuSO ₄ (s)

$\Delta H_{298}^0 = -927.6 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 157.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 170.83 + 45.36 \cdot 10^{-3} \cdot T - 3.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1140 K) [4]	

Cu₂O₅Y₂ (s)	Yttrium Copper Oxide	Cu₂O₅Y₂ (s)
Y ₂ Cu ₂ O ₅ (s)		Y ₂ Cu ₂ O ₅ (s)

$\Delta H_{298}^0 = -2216.9 \pm 4.6 \text{ kJ}\cdot\text{mol}^{-1}$ [59]	$S_{298}^0 = 188.4 \pm 1.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [59]
$C_p^0 = [188.36] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

Cu₂S (s)	Copper(I) Sulfide alpha	Cu₂S (s)
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mp = 1402 K (1129 °C)	
$\Delta H_{298}^0 = -79.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 120.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 52.84 + 78.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 376 K) [4]	

Cu₂S (s)	Copper(I) Sulfide alpha	Cu₂S (s)
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$\Delta H_{376}^0 = -73.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{376}^0 = 149.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (376 K) [4]	

Cu₂S (s)	Copper(I) Sulfide beta	Cu₂S (s)
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$\Delta H_{376}^0 = -69.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{376}^0 = 149.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.05 - 30.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (376 ... 717 K) [4]	

Cu₂S (s)	Copper(I) Sulfide beta	Cu₂S (s)
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$\Delta H_{717}^0 = -37 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{717}^0 = 211.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (717 K) [4]	

Cu₂S (s)	Copper(I) Sulfide gamma	Cu₂S (s)
$\Delta H_{717}^0 = -35.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 84.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (717 K) [4]		$S_{717}^0 = 213.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂S (s)	Copper(I) Sulfide gamma	Cu₂S (s)
$\Delta H_{1402}^0 = 22.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 84.64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1402 K) [4]		$S_{1402}^0 = 269.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂S (l)	Copper(I) Sulfide	Cu₂S (l)
$\Delta H_{1402}^0 = 31.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 89.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1402 K) [4]		$S_{1402}^0 = 276.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂Sb (s)	Copper Antimonide	Cu₂Sb (s)
mp = 859 K (586 °C) $\Delta H_{298}^0 = -11.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 68.53 + 27.61 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 859 K) [4]		$S_{298}^0 = 126.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂Se (s)	Copper(I) Selenide alpha	Cu₂Se (s)
mp = 1390 K (1117 °C) $\Delta H_{298}^0 = -65.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 58.58 + 77.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 395 K) [4]		$S_{298}^0 = 129.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Cu₂Se (s)	Copper(I) Selenide alpha	Cu₂Se (s)
$\Delta H_{395}^0 = -57 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 89.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (395 K) [4]		$S_{395}^0 = 153.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Cu₂Se (s)	Copper(I) Selenide beta	Cu₂Se (s)
$\Delta H_{395}^0 = -50.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 84.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (395 K) [4]		$S_{395}^0 = 170.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Cu₂Te (s)	Copper(I) Telluride alpha	Cu₂Te (s)
mp = 1398 K (1125 °C) $\Delta H_{298}^0 = -41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 59.83 + 53.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 433 K) [4]		$S_{298}^0 = 134.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Cu₃I₃ (g) (CuI) ₃ (g)	Copper(I) Iodide	Cu₃I₃ (g) (CuI) ₃ (g)
$\Delta H_{298}^0 = -16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 133.18 - 0.08 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(p,K) = -9.01 \cdot 10^3 \cdot T^{-1} - 5.5 \cdot \lg(T) + 22.96$ (680 ... 868 K) [4] {Reaction: evaporation of CuI(s)}		$S_{298}^0 = 464.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Cu₃Mo₂O₉ (s) 3CuO · 2MoO ₃ (s)	Copper Molybdate	Cu₃Mo₂O₉ (s) 3CuO · 2MoO ₃ (s)
$\Delta H_{298}^0 = -2055 \text{ kJ}\cdot\text{mol}^{-1}$ [33]		$S_{298}^0 = 289 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [33]
Cu₃P (s)	Copper Phosphide	Cu₃P (s)
mp = 1296 K (1023 °C) $\Delta H_{298}^0 = -151.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 77.82 + 33.47 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1296 K) [4]		$S_{298}^0 = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Cu₃Se₂ (s)	Copper Selenide	Cu₃Se₂ (s)
$\Delta H_{298}^0 = -104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [207.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Cu₅FeS₄ (s)	Iron Copper Sulfide alpha, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -380.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 362.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 208.2 + 146.78 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 485 K) [4]		
Cu₅FeS₄ (s)	Iron Copper Sulfide alpha, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -331.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 489.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 277 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 K) [4]		
Cu₅FeS₄ (s)	Iron Copper Sulfide beta, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -325.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 501.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -143.55 + 1033.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 ... 540 K) [4]		
Cu₆Mo₅O₁₈ (s) 3Cu ₂ O · 5MoO ₃ (s)	Copper Molybdate	Cu₆Mo₅O₁₈ (s) 3Cu ₂ O · 5MoO ₃ (s)
$\Delta H_{298}^0 = -4310 \text{ kJ}\cdot\text{mol}^{-1}$ [33]		$S_{298}^0 = 690 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [33]
D (g)	Deuterium	D (g)
$\Delta H_{298}^0 = 221.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
DF (g)	Hydrofluoric Acid-D	DF (g)
$\Delta H_{298}^0 = -275.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 179.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
DH (g) HD (g)	Hydrogen-D1	DH (g) HD (g)
$\Delta H_{298}^0 = 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 143.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Cu₅FeS₄ (s)	Iron Copper Sulfide alpha, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -380.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 362.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 208.2 + 146.78 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 485 K) [4]		
Cu₅FeS₄ (s)	Iron Copper Sulfide alpha, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -331.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 489.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 277 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 K) [4]		
Cu₅FeS₄ (s)	Iron Copper Sulfide beta, Bornite	Cu₅FeS₄ (s)
$\Delta H_{298}^0 = -325.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 501.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -143.55 + 1033.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (485 ... 540 K) [4]		
Cu₆Mo₅O₁₈ (s) 3Cu ₂ O · 5MoO ₃ (s)	Copper Molybdate	Cu₆Mo₅O₁₈ (s) 3Cu ₂ O · 5MoO ₃ (s)
$\Delta H_{298}^0 = -4310 \text{ kJ}\cdot\text{mol}^{-1}$ [33]		$S_{298}^0 = 690 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [33]
D (g)	Deuterium	D (g)
$\Delta H_{298}^0 = 221.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
DF (g)	Hydrofluoric Acid-D	DF (g)
$\Delta H_{298}^0 = -275.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 179.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
DH (g) HD (g)	Hydrogen-D1	DH (g) HD (g)
$\Delta H_{298}^0 = 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 143.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

DHO (g) HDO (g)	Water-D1	DHO (g) HDO (g)
$\Delta H_{298}^0 = -245.4 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 33.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 199.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
DN (g) ND (g)	Imidogen-D	DN (g) ND (g)
$\Delta H_{298}^0 = 375.3 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 187.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
DO (g) OD (g)	Hydroxyl-D	DO (g) OD (g)
$\Delta H_{298}^0 = 36.6 \pm 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 189.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
DS (g) SD (g)	Mercapto-D1	DS (g) SD (g)
$\Delta H_{298}^0 = 138.5 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 32.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 201.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
D₂ (g)	Deuterium	D₂ (g)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 145 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
D₂N (g) ND ₂ (g)	Amidogen-D2	D₂N (g) ND ₂ (g)
$\Delta H_{298}^0 = 185.4 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 204.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

D₂N₂ (g) DNND (g)	Diazene-D2 cis	D₂N₂ (g) DNND (g)
$\Delta H_{298}^0 = 207.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 39.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 224.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
D₂O (g)	Water-D2	D₂O (g)
$\Delta H_{298}^0 = -249.2 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
D₂S (g)	Hydrogen Sulfide-D2	D₂S (g)
$\Delta H_{298}^0 = -23.9 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 35.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 215.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
D₃N (g) ND ₃ (g)	Ammonia-D3	D₃N (g) ND ₃ (g)
$\Delta H_{298}^0 = -58.6 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 38.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 203.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Dy (s)	Dysprosium alpha	Dy (s)
mp = 1682 K (1409 °C) $\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 35.34 - 21.9 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} + 18.7 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1657 K) [4] $\lg(p,K) = -15.96 \cdot 10^3 \cdot T^{-1} - 2.3 \cdot \lg(T) + 13.8$ (1100 ... 1657 K) [4] {Reaction: evaporation as Dy(g)}		bp = 2831 K (2558 °C) $S_{298}^0 = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Dy (s)	Dysprosium alpha	Dy (s)
$\Delta H_{1657}^0 = 46.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 50.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1657 K) [4]		$S_{1657}^0 = 129.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Dy (s)	Dysprosium beta	Dy (s)
$\Delta H_{1657}^0 = 50.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1657}^0 = 131.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1657 K) [4]		
$\lg(p,K) = -14.44 \cdot 10^3 \cdot T^{-1} - 0.52 \cdot \lg(T) + 7.16$ (1657 ... 1682 K) [4]		
{Reaction: evaporation as Dy(g)}		
Dy (s)	Dysprosium beta	Dy (s)
$\Delta H_{1682}^0 = 51.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1682}^0 = 132.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1682 K) [4]		
Dy (l)	Dysprosium	Dy (l)
$\Delta H_{1682}^0 = 62.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1682}^0 = 138.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1682 K) [4]		
$\lg(p,K) = -15.78 \cdot 10^3 \cdot T^{-1} - 3.09 \cdot \lg(T) + 16.24$ (1682 ... 2000 K) [4]		
{Reaction: evaporation as Dy(g)}		
Dy (g)	Dysprosium	Dy (g)
$\Delta H_{298}^0 = 290.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 196 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 18.6 + 3.04 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
DyF₃ (s)	Dysprosium(III) Fluoride	DyF₃ (s)
mp = 1430 K (1157 °C)		bp = 2739 K (2466 °C)
$\Delta H_{298}^0 = -1692 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 92.91 + 21.92 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1430 K) [4]		
$\lg(p,K) = -24.35 \cdot 10^3 \cdot T^{-1} - 4.48 \cdot \lg(T) + 25.43$ (1200 ... 1430 K) [4]		
{Reaction: evaporation as DyF ₃ (g)}		
DyF₃ (s)	Dysprosium(III) Fluoride	DyF₃ (s)
$\Delta H_{1430}^0 = -1566.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1430}^0 = 286.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

DyF₃ (l)	Dysprosium(III) Fluoride	DyF₃ (l)
$\Delta H_{1430}^0 = -1518.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1430}^0 = 320.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1430 K) [4]		
$\lg(p,K) = -24.35 \cdot 10^3 \cdot T^{-1} - 8.53 \cdot \lg(T) + 38.22$ (1430 ... 2000 K) [4]		
{Reaction: evaporation as DyF ₃ (g)}		
DyF₃ (g)	Dysprosium(III) Fluoride	DyF₃ (g)
$\Delta H_{298}^0 = -1245.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 341.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.68 + 3.83 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
DyI₃ (s)	Dysprosium(III) Iodide	DyI₃ (s)
$\Delta H_{298}^0 = -616.7 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [217.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
DyI₃ (g)	Dysprosium(III) Iodide	DyI₃ (g)
$\Delta H_{298}^0 = -332.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 432.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.66 + 2.59 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
DyS (s)	Dysprosium(II) Sulfide	DyS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
DyS (g)	Dysprosium(II) Sulfide	DyS (g)
$\Delta H_{298}^0 = [163.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [265.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.10] + [0.15] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
DySe (s)	Dysprosium(II) Selenide	DySe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
DySe (g)	Dysprosium(II) Selenide	DySe (g)
$\Delta H_{298}^0 = [210] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [276.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.29] + [0.07] \cdot 10^{-3} \cdot T + [-0.18] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		

DyTe (s)	Dysprosium(II) Telluride	DyTe (s)
mp = 2123 K (1850 °C)		
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
DyTe (g)	Dysprosium(II) Telluride	DyTe (g)
$\Delta H_{298}^0 = [274.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [285] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Dy₂O₃ (s)	Dysprosium(III) Oxide alpha	Dy₂O₃ (s)
$\Delta H_{298}^0 = -1862.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 149.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 124.81 + 11.59 \cdot 10^{-3} \cdot T - 1.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1590 K) [4]		
Dy₂O₃ (s)	Dysprosium(III) Oxide alpha	Dy₂O₃ (s)
$\Delta H_{1590}^0 = -1690.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1590}^0 = 367.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Dy₂O₃ (s)	Dysprosium(III) Oxide beta	Dy₂O₃ (s)
$\Delta H_{1590}^0 = -1689.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1590}^0 = 368.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 143.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1590 K) [4]		
Dy₂S₃ (s)	Dysprosium(III) Sulfide	Dy₂S₃ (s)
$\Delta H_{298}^0 = [-1221.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [200.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Dy₂Se₃ (s)	Dysprosium(III) Selenide	Dy₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [238.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Dy₂Te₃ (s)	Dysprosium(III) Telluride	Dy₂Te₃ (s)
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mp = 1783 K (1510 °C)

$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1} [5]$

$S_{298}^0 = [259.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$

e (g)	Electron	e (g)
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$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$

$S_{298}^0 = 21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$

Er (s)	Erbium	Er (s)
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mp = 1795 K (1522 °C)

bp = 3133 K (2860 °C)

$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$

$S_{298}^0 = 73.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

$C_p^0 = 28.38 - 1.99 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} + 5.72 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1795 \text{ K}) [4]$

$\lg(p, K) = -17.13 \cdot 10^3 \cdot T^{-1} - 1.91 \cdot \lg(T) + 12.38 (1100 \dots 1795 \text{ K}) [4]$

{Reaction: evaporation as Er(g)}

Er (s)	Erbium	Er (s)
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$\Delta H_{1795}^0 = 50.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$

$S_{1795}^0 = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

$C_p^0 = 43.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1795 \text{ K}) [2]$

Er (l)	Erbium	Er (l)
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$\Delta H_{1795}^0 = 70.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$

$S_{1795}^0 = 141.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

$C_p^0 = 38.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1795 \text{ K}) [2]$

$\lg(p, K) = -16.01 \cdot 10^3 \cdot T^{-1} - 1.8 \cdot \lg(T) + 11.41 (1795 \dots 2000 \text{ K}) [4]$

{Reaction: evaporation as Er(g)}

Er (g)	Erbium	Er (g)
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$\Delta H_{298}^0 = 317.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$

$S_{298}^0 = 194 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$

$C_p^0 = 21.24 - 1.75 \cdot 10^{-3} \cdot T + 1.6 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$

Dy₂Te₃ (s)	Dysprosium(III) Telluride	Dy₂Te₃ (s)
mp = 1783 K (1510 °C)		
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [259.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
e (g)	Electron	e (g)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Er (s)	Erbium	Er (s)
mp = 1795 K (1522 °C)		bp = 3133 K (2860 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 73.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.38 - 1.99 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} + 5.72 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1795 K) [4]		
$\lg(p, K) = -17.13 \cdot 10^3 \cdot T^{-1} - 1.91 \cdot \lg(T) + 12.38$ (1100 ... 1795 K) [4]		
{Reaction: evaporation as Er(g)}		
Er (s)	Erbium	Er (s)
$\Delta H_{1795}^0 = 50.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1795}^0 = 130 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1795 K) [2]		
Er (l)	Erbium	Er (l)
$\Delta H_{1795}^0 = 70.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1795}^0 = 141.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1795 K) [2]		
$\lg(p, K) = -16.01 \cdot 10^3 \cdot T^{-1} - 1.8 \cdot \lg(T) + 11.41$ (1795 ... 2000 K) [4]		
{Reaction: evaporation as Er(g)}		
Er (g)	Erbium	Er (g)
$\Delta H_{298}^0 = 317.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 194 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.24 - 1.75 \cdot 10^{-3} \cdot T + 1.6 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

ErF₃ (s)	Erbium(III) Fluoride alpha	ErF₃ (s)
mp = 1419 K (1146 °C)		bp = 2700 K (2427 °C)
$\Delta H_{298}^0 = -1692.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 86.11 + 24.85 \cdot 10^{-3} \cdot T + 1.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1390 K) [4]		
$\lg(p,K) = -24.32 \cdot 10^3 \cdot T^{-1} - 4.47 \cdot \lg(T) + 25.56$ (1200 ... 1390 K) [4]		
{Reaction: evaporation as ErF ₃ (g)}		
ErF₃ (s)	Erbium(III) Fluoride alpha	ErF₃ (s)
$\Delta H_{1390}^0 = -1571.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1390}^0 = 278.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ErF₃ (s)	Erbium(III) Fluoride beta	ErF₃ (s)
$\Delta H_{1390}^0 = -1541.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1390}^0 = 299.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 135.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1390 K) [4]		
$\lg(p,K) = -23.9 \cdot 10^3 \cdot T^{-1} - 6.34 \cdot \lg(T) + 31.13$ (1390 ... 1419 K) [4]		
{Reaction: evaporation as ErF ₃ (g)}		
ErF₃ (s)	Erbium(III) Fluoride beta	ErF₃ (s)
$\Delta H_{1419}^0 = -1537.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1419}^0 = 302.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ErF₃ (l)	Erbium(III) Fluoride	ErF₃ (l)
$\Delta H_{1419}^0 = -1509.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1419}^0 = 322.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 139.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1419 K) [4]		
$\lg(p,K) = -22.69 \cdot 10^3 \cdot T^{-1} - 6.77 \cdot \lg(T) + 31.63$ (1419 ... 2000 K) [4]		
{Reaction: evaporation as ErF ₃ (g)}		
ErF₃ (g)	Erbium(III) Fluoride	ErF₃ (g)
$\Delta H_{298}^0 = -1244.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 340.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.29 + 1.09 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

ErI₃ (g)	Erbium(III) Iodide	ErI₃ (g)
mp = 1293 K (1020 °C)		bp = 1550 K (1277 °C)
$\Delta H_{298}^0 = -339.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 431.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.08 + 0.05 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
ErS (s)	Erbium(II) Sulfide	ErS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ErS (g)	Erbium(II) Sulfide	ErS (g)
$\Delta H_{298}^0 = [205] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [261.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.13] + [0.15] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
ErSe (s)	Erbium(II) Selenide	ErSe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ErSe (g)	Erbium(II) Selenide	ErSe (g)
$\Delta H_{298}^0 = [251.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [272.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.29] + [0.07] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
ErTe (s)	Erbium(II) Telluride	ErTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ErTe (g)	Erbium(II) Telluride	ErTe (g)
$\Delta H_{298}^0 = [315.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [281] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Er₂O₃ (s)	Erbium(III) Oxide	Er₂O₃ (s)
$\Delta H_{298}^0 = -1897.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 155.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Er₂S₃ (s)	Erbium(III) Sulfide	Er₂S₃ (s)
$\Delta H_{298}^0 = [-1234.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [202.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Er₂Se₃ (s)	Erbium(III) Selenide	Er₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [240.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Er₂Te₃ (s)	Erbium(III) Telluride	Er₂Te₃ (s)
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [261.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Eu (s)	Europium	Eu (s)
mp = 1090 K (817 °C)		
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 17.97 + 19.08 \cdot 10^{-3} \cdot T + 0.36 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1090 K) [4]		
$\lg(p,K) = -9.54 \cdot 10^3 \cdot T^{-1} - 1.78 \cdot \lg(T) + 11.29$ (700 ... 1090 K) [4]		
{Reaction: evaporation as Eu(g)}		
Eu (s)	Europium	Eu (s)
$\Delta H_{1090}^0 = 25.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1090}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1090 K) [4]		
Eu (l)	Europium	Eu (l)
$\Delta H_{1090}^0 = 34.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1090}^0 = 126.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1090 K) [4]		
$\lg(p,K) = -9.19 \cdot 10^3 \cdot T^{-1} - 2.08 \cdot \lg(T) + 11.88$ (1090 ... 1797 K) [4]		
{Reaction: evaporation as Eu(g)}		
Eu (g)	Europium	Eu (g)
$\Delta H_{298}^0 = 175.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 188.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.72 + 0.09 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

EuF₃ (s)	Europium(III) Fluoride alpha	EuF₃ (s)
mp = 1650 K (1377 °C)		bp = 2662 K (2389 °C)
$\Delta H_{298}^0 = -1584.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 107.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 93.08 + 32.47 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 920 K) [4]		
EuF₃ (s)	Europium(III) Fluoride alpha	EuF₃ (s)
$\Delta H_{920}^0 = -1514.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{920}^0 = 230.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
EuF₃ (s)	Europium(III) Fluoride beta	EuF₃ (s)
$\Delta H_{920}^0 = -1508.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{920}^0 = 237.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 150.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (920 K) [4]		
$\lg(p,K) = -24.56 \cdot 10^3 \cdot T^{-1} - 7.09 \cdot \lg(T) + 34.03$ (1200 ... 1650 K) [4]		
{Reaction: evaporation as EuF ₃ (g)}		
EuF₃ (s)	Europium(III) Fluoride beta	EuF₃ (s)
$\Delta H_{1650}^0 = -1398.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1650}^0 = 325.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
EuF₃ (l)	Europium(III) Fluoride	EuF₃ (l)
$\Delta H_{1650}^0 = -1356.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1650}^0 = 351.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 152.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1650 K) [4]		
$\lg(p,K) = -22.54 \cdot 10^3 \cdot T^{-1} - 7.37 \cdot \lg(T) + 33.73$ (1650 ... 2000 K) [4]		
{Reaction: evaporation as EuF ₃ (g)}		
EuF₃ (g)	Europium(III) Fluoride	EuF₃ (g)
$\Delta H_{298}^0 = -1147.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 328.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 93.28 - 0.74 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

EuN (s)	Europium Nitride	EuN (s)
$\Delta H_{298}^0 = -217.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 63.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 51.88 + 5.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1872 K) [4]		
EuO (s)	Europium(II) Oxide	EuO (s)
mp = 2253 K (1980 °C)		
$\Delta H_{298}^0 = -589.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.85 + 5.31 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2253 K) [4]		
EuS (s)	Europium(II) Sulfide	EuS (s)
$\Delta H_{298}^0 = -418.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.74 + 4.81 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
EuS (g)	Europium(II) Sulfide	EuS (g)
$\Delta H_{298}^0 = 88.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 272.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.24 + 0.07 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
EuSe (s)	Europium(II) Selenide	EuSe (s)
$\Delta H_{298}^0 = [-326.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
EuSe (g)	Europium(II) Selenide	EuSe (g)
$\Delta H_{298}^0 = 109.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [282.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.33] + [0.04] \cdot 10^{-3} \cdot T + [-0.15] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
EuTe (s)	Europium(II) Telluride	EuTe (s)
$\Delta H_{298}^0 = [-272] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
EuTe (g)	Europium(II) Telluride	EuTe (g)
$\Delta H_{298}^0 = 146 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [290.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.39] + [0.11] \cdot 10^{-3} \cdot T + [-0.08] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		

Eu₂O₃ (s)	Europium(III) Oxide cubic	Eu₂O₃ (s)
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mp = 2373 K (2100 °C)

 $\Delta H_{298}^0 = -1662.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 133.31 + 18.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1350 K) [4]

Eu₂O₃ (s)	Europium(III) Oxide alpha	Eu₂O₃ (s)
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mp = 2373 K (2100 °C)

 $\Delta H_{298}^0 = -1657.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 125.47 + 25.2 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 895 K) [4]

Eu₃S₄ (s)	Europium Sulfide	Eu₃S₄ (s)
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 $\Delta H_{298}^0 = [-1485.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [279.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

F (g)	Fluorine	F (g)
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 $\Delta H_{298}^0 = 79.4 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 158.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 21.82 - 0.55 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

FFe (g) FeF (g)	Iron(I) Fluoride	FFe (g) FeF (g)
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 $\Delta H_{298}^0 = 47.7 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 240.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 36.51 + 0.9 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

FGa (g) GaF (g)	Gallium(I) Fluoride	FGa (g) GaF (g)
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 $\Delta H_{298}^0 = -232.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 227.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 36.5 + 1.06 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Eu₂O₃ (s)	Europium(III) Oxide cubic	Eu₂O₃ (s)
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mp = 2373 K (2100 °C)

$\Delta H_{298}^0 = -1662.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]

$S_{298}^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

$C_p^0 = 133.31 + 18.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1350 K) [4]

Eu₂O₃ (s)	Europium(III) Oxide alpha	Eu₂O₃ (s)
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mp = 2373 K (2100 °C)

$\Delta H_{298}^0 = -1657.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]

$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

$C_p^0 = 125.47 + 25.2 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 895 K) [4]

Eu₃S₄ (s)	Europium Sulfide	Eu₃S₄ (s)
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$\Delta H_{298}^0 = [-1485.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]

$S_{298}^0 = [279.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

F (g)	Fluorine	F (g)
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$\Delta H_{298}^0 = 79.4 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]

$S_{298}^0 = 158.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

$C_p^0 = 21.82 - 0.55 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

FFe (g) FeF (g)	Iron(I) Fluoride	FFe (g) FeF (g)
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$\Delta H_{298}^0 = 47.7 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]

$S_{298}^0 = 240.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

$C_p^0 = 36.51 + 0.9 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

FGa (g) GaF (g)	Gallium(I) Fluoride	FGa (g) GaF (g)
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$\Delta H_{298}^0 = -232.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]

$S_{298}^0 = 227.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

$C_p^0 = 36.5 + 1.06 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

FGe (g) GeF (g)	Germanium(I) Fluoride	FGe (g) GeF (g)
$\Delta H_{298}^0 = -66.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 234 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.28 - 1.85 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
FH (g) HF (g)	Hydrogen Fluoride	FH (g) HF (g)
$\Delta H_{298}^0 = -272.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.36 + 3.83 \cdot 10^{-3} \cdot T + 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -12.29 \cdot 10^3 \cdot T^{-1} + 0.37 \cdot \lg(T) + 0.81$ (1200 ... 2000 K) [4]		
{Reaction: decomposition $2/3\text{HF(g)} = 1/3\text{H}_2\text{(g)} + 2/3\text{F(g)}$ }		
FHO (g) HOF (g)	Hypofluorous Acid	FHO (g) HOF (g)
$\Delta H_{298}^0 = -98.3 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 226.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FHO₃S (g) HSO ₃ F (g)	Fluorosulfuric Acid	FHO₃S (g) HSO ₃ F (g)
$\Delta H_{298}^0 = -753.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 297.3 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 75.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FH₃Si (g) SiH ₃ F (g)	Fluorosilane	FH₃Si (g) SiH ₃ F (g)
$\Delta H_{298}^0 = -376.6 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 238.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 47.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

FH₄N (s)	Ammonium Fluoride	FH₄N (s)
NH ₄ F (s)		NH ₄ F (s)

$$\Delta H_{298}^0 = -463.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 46.16 + 64.09 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 478 \text{ K}) [4]$$

$$\lg(p, K) = -3.65 \cdot 10^3 \cdot T^{-1} + 0.89 \cdot \lg(T) + 4.95 (298 \dots 478 \text{ K}) [4]$$

{Reaction: decomposition $1/2\text{NH}_4\text{F(s)} = 1/2\text{NH}_3\text{(g)} + 1/2\text{HF(g)}$ }

FHg (g)	Mercury(I) Fluoride	FHg (g)
HgF (g)		HgF (g)

$$\Delta H_{298}^0 = 2.9 \pm 50.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 248.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.15 + 0.87 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FI (g)	Iodine Fluoride	FI (g)
IF (g)		IF (g)

$$\Delta H_{298}^0 = -94.8 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 236.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 33.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Fln (g)	Indium(I) Fluoride	Fln (g)
InF (g)		InF (g)

$$\Delta H_{298}^0 = -193.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 236.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 36.84 + 0.88 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FK (s)	Potassium Fluoride	FK (s)
KF (s)		KF (s)

$$\text{mp} = 1119 \text{ K} (846 \text{ }^\circ\text{C})$$

$$\text{bp} = 1788 \text{ K} (1515 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -568.6 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 66.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.36 + 13.26 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1131 \text{ K}) [4]$$

FK (l)	Potassium Fluoride	FK (l)
KF (l)		KF (l)

$$\Delta H_{298}^0 = -554.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 67.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FK (g) KF (g)	Potassium Fluoride	FK (g) KF (g)
$\Delta H_{298}^0 = -326.8 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 226.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.24 + 0.75 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -13.1 \cdot 10^3 \cdot T^{-1} - 2.67 \cdot \lg(T) + 16.43$ (800 ... 1131 K) [4]		
{Reaction: evaporation of KF(s)}		
FLi (s) LiF (s)	Lithium Fluoride	FLi (s) LiF (s)
mp = 1121 K (848 °C)		bp = 1975 K (1702 °C)
$\Delta H_{298}^0 = -616.9 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 35.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.28 + 16.73 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1121 K) [4]		
FLi (s) LiF (s)	Lithium Fluoride	FLi (s) LiF (s)
$\Delta H_{1121}^0 = -572 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1121}^0 = 103.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FLi (l) LiF (l)	Lithium Fluoride	FLi (l) LiF (l)
$\Delta H_{1121}^0 = -545 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1121}^0 = 127.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 64.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1121 K) [4]		
FLi (l) LiF (l)	Lithium Fluoride	FLi (l) LiF (l)
$\Delta H_{298}^0 = -598.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 64.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FLi (g) LiF (g)	Lithium Fluoride	FLi (g) LiF (g)
$\Delta H_{298}^0 = -340.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 200.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.8 + 2.16 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1975 K) [4]		
$\lg(p,K) = -14.95 \cdot 10^3 \cdot T^{-1} - 2.77 \cdot \lg(T) + 17.1$ (900 ... 1121 K) [4]		
{Reaction: evaporation of LiF(s)}		

FLiO (g) LiOF (g)	Lithium Hypofluorite	FLiO (g) LiOF (g)
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$$\Delta H_{298}^0 = -92.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 246 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FMg (g) MgF (g)	Magnesium(I) Fluoride	FMg (g) MgF (g)
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$$\Delta H_{298}^0 = -236.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 221.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.1 + 1.26 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FMo (g) MoF (g)	Molybdenum(I) Fluoride	FMo (g) MoF (g)
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$$\Delta H_{298}^0 = 282.8 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 246.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36 + 1.23 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2896 \text{ K}) [4]$$

FN (g) NF (g)	Nitrogen(I) Fluoride	FN (g) NF (g)
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$$\Delta H_{298}^0 = 248.9 \pm 33 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 215.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 30.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FNO (g) ONF (g)	Nitrosyl Fluoride	FNO (g) ONF (g)
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$$\text{mp} = 139 \text{ K} (-134 \text{ }^\circ\text{C})$$

$$\text{bp} = 217 \text{ K} (-56 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -65.7 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 248.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.95 + 5.81 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FNO₂ (g) NO ₂ F (g)	Nitryl Fluoride	FNO₂ (g) NO ₂ F (g)
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$$\text{mp} = 134 \text{ K} (-139 \text{ }^\circ\text{C})$$

$$\text{bp} = 210 \text{ K} (-63 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -108.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 260.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.06 + 7.54 \cdot 10^{-3} \cdot T - 2.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FNO₃ (g) FONO ₂ (g)	Fluorine Nitrate	FNO₃ (g) FONO ₂ (g)
$\Delta H_{298}^0 = 10.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 65.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 292.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
FNa (s) NaF (s)	Sodium Fluoride	FNa (s) NaF (s)
mp = 1269 K (996 °C) $\Delta H_{298}^0 = -573.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 45.05 + 16.04 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1269 K) [4]		bp = 2075 K (1802 °C) $S_{298}^0 = 51.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FNa (s) NaF (s)	Sodium Fluoride	FNa (s) NaF (s)
$\Delta H_{1269}^0 = -518.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1269}^0 = 130.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FNa (l) NaF (l)	Sodium Fluoride	FNa (l) NaF (l)
$\Delta H_{1269}^0 = -484.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 69.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1269 K) [4]		$S_{1269}^0 = 157.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FNa (l) NaF (l)	Sodium Fluoride	FNa (l) NaF (l)
$\Delta H_{298}^0 = -546.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 46.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 73.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
FNa (g) NaF (g)	Sodium Fluoride	FNa (g) NaF (g)
$\Delta H_{298}^0 = -291.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 36.87 + 1.02 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2075 K) [4] $\lg(p, K) = -15.38 \cdot 10^3 \cdot T^{-1} - 2.94 \cdot \lg(T) + 17.72$ (900 ... 1269 K) [4] {Reaction: evaporation of NaF(s)}		$S_{298}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

FNi (g)	Nickel(I) Fluoride	FNi (g)
NiF (g)		NiF (g)

$\Delta H_{298}^0 = 104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 239.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.1 + 1.68 \cdot 10^{-3} \cdot T - 0.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

FO (g)	Oxygen Fluoride	FO (g)
OF (g)		OF (g)

$\Delta H_{298}^0 = 109 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 216.4 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

FOSm (s)	Samarium Oxide Fluoride alpha	FOSm (s)
SmOF (s)		SmOF (s)

$\Delta H_{298}^0 = -1148.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 76.8 + 9.71 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 797 K) [4]		

FOSm (s)	Samarium Oxide Fluoride alpha	FOSm (s)
SmOF (s)		SmOF (s)

$\Delta H_{797}^0 = -1109.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{797}^0 = 170.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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FOSm (s)	Samarium Oxide Fluoride beta	FOSm (s)
SmOF (s)		SmOF (s)

$\Delta H_{797}^0 = -1104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{797}^0 = 176.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.8 + 9.71 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (797 ... 1195 K) [4]		

FOSm (s)	Samarium Oxide Fluoride beta	FOSm (s)
SmOF (s)		SmOF (s)

$\Delta H_{1195}^0 = -1070.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1195}^0 = 211.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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FOSm (s)	Samarium Oxide Fluoride gamma	FOSm (s)
SmOF (s)		SmOF (s)

$\Delta H_{1195}^0 = -1070.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1195}^0 = 211.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1195 K) [4]		

FOTi (g) OTiF (g)	Titanium Oxide Fluoride	FOTi (g) OTiF (g)
$\Delta H_{298}^0 = -433.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 250.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FO₂ (g) OFO (g)	Oxygen Fluoride	FO₂ (g) OFO (g)
$\Delta H_{298}^0 = 378.6 \pm 20 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251 \pm 1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FO₂ (g) FOO (g)	Oxygen Fluoride	FO₂ (g) FOO (g)
$\Delta H_{298}^0 = 25.4 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 259.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FP (g) PF (g)	Phosphorus(I) Fluoride	FP (g) PF (g)
$\Delta H_{298}^0 = -52.3 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FPS (g) PSF (g)	Thiophosphoryl Fluoride	FPS (g) PSF (g)
$\Delta H_{298}^0 = -172.3 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 277.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FPb (g) PbF (g)	Lead(I) Fluoride	FPb (g) PbF (g)
$\Delta H_{298}^0 = -80.3 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 250 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.56 + 1.18 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

FRb (s)	Rubidium Fluoride	FRb (s)
RbF (s)		RbF (s)

mp = 1050 K (777 °C)

$$\Delta H_{298}^0 = -555.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 77.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 33.33 + 38.54 \cdot 10^{-3} \cdot T + 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1050 \text{ K}) [4]$$

$$\lg(p, K) = -12.3 \cdot 10^3 \cdot T^{-1} - 3.63 \cdot \lg(T) + 19.35 (700 \dots 1050 \text{ K}) [4]$$

{Reaction: evaporation as RbF(g)}

FRb (s)	Rubidium Fluoride	FRb (s)
RbF (s)		RbF (s)

$$\Delta H_{1050}^0 = -510 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1050}^0 = 151.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

FRb (l)	Rubidium Fluoride	FRb (l)
RbF (l)		RbF (l)

$$\Delta H_{1050}^0 = -484.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1050}^0 = 175.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 59.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1050 \text{ K}) [4]$$

$$\lg(p, K) = -10.46 \cdot 10^3 \cdot T^{-1} - 2.57 \cdot \lg(T) + 14.39 (1050 \dots 1721 \text{ K}) [4]$$

{Reaction: evaporation as RbF(g)}

FRb (g)	Rubidium Fluoride	FRb (g)
RbF (g)		RbF (g)

$$\Delta H_{298}^0 = -334.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 234.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.34 + 0.61 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FRu (g)	Ruthenium(I) Fluoride	FRu (g)
RuF (g)		RuF (g)

$$\Delta H_{298}^0 = 328.4 \pm 18 \text{ kJ}\cdot\text{mol}^{-1} [278]$$

$$S_{298}^0 = [243.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [15]$$

FS (g)	Sulfur(I) Fluoride	FS (g)
SF (g)		SF (g)

$$\Delta H_{298}^0 = 13 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 225.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 35.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FSb (g)	Antimony(I) Fluoride	FSb (g)
SbF (g)		SbF (g)

$$\Delta H_{298}^0 = -74.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 234.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 36.61 + 0.5 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [6]$$

FSc (g)	Scandium(I) Fluoride	FSc (g)
ScF (g)		ScF (g)

$$\Delta H_{298}^0 = -133.9 \text{ kJ}\cdot\text{mol}^{-1} [93]$$

$$S_{298}^0 = 214.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [93]$$

FSe (g)	Selenium(I) Fluoride	FSe (g)
SeF (g)		SeF (g)

$$\Delta H_{298}^0 = -41.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 233.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 36.42 + 0.52 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FSi (g)	Silicon(I) Fluoride	FSi (g)
SiF (g)		SiF (g)

$$\Delta H_{298}^0 = -20.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 225.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 32.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FSn (g)	Tin(I) Fluoride	FSn (g)
SnF (g)		SnF (g)

$$\Delta H_{298}^0 = -95 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 241.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 36.73 + 3.26 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FSr (g)	Strontium(I) Fluoride	FSr (g)
SrF (g)		SrF (g)

$$\Delta H_{298}^0 = -294.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 239.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.99 + 0.7 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

FTe (g) TeF (g)	Tellurium(I) Fluoride	FTe (g) TeF (g)
$\Delta H_{298}^0 = -87 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 241.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.72 + 0.38 \cdot 10^{-3} \cdot T - 3.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
FTi (g) TiF (g)	Titanium(I) Fluoride	FTi (g) TiF (g)
$\Delta H_{298}^0 = -66.9 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 237.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.48 + 0.34 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1939 K) [4]		
FTI (s) TIF (s)	Thallium(I) Fluoride alpha	FTI (s) TIF (s)
mp = 595 K (322 °C)		bp = 1049 K (776 °C)
$\Delta H_{298}^0 = -324.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 95.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.63 + 49.49 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 356 K) [4]		
FTI (s) TIF (s)	Thallium(I) Fluoride alpha	FTI (s) TIF (s)
$\Delta H_{356}^0 = -321.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{356}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FTI (s) TIF (s)	Thallium(I) Fluoride beta	FTI (s) TIF (s)
$\Delta H_{356}^0 = -321.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{356}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 41.45 + 34.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (356 ... 595 K) [4]		
FTI (s) TIF (s)	Thallium(I) Fluoride beta	FTI (s) TIF (s)
$\Delta H_{595}^0 = -307.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{595}^0 = 135.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FTI (l) TIF (l)	Thallium(I) Fluoride	FTI (l) TIF (l)
$\Delta H_{595}^0 = -293.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{595}^0 = 159.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (595 K) [4]		

FTI (g) TIF (g)	Thallium(I) Fluoride	FTI (g) TIF (g)
$\Delta H_{298}^0 = -185.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 244.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.02 + 0.8 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -7.05 \cdot 10^3 \cdot T^{-1} - 3.57 \cdot \lg(T) + 17.15$ (595 ... 1049 K) [4]		
{Reaction: evaporation of TIF(l)}		
FU (g) UF (g)	Uranium(I) Fluoride	FU (g) UF (g)
$\Delta H_{298}^0 = -42 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 251 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
FW (g) WF (g)	Tungsten(I) Fluoride	FW (g) WF (g)
$\Delta H_{298}^0 = 386.2 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.81 + 2.9 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
FY (g) YF (g)	Yttrium(I) Fluoride	FY (g) YF (g)
$\Delta H_{298}^0 = -138 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 231.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.28 + 0.44 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
FZr (g) ZrF (g)	Zirconium(I) Fluoride	FZr (g) ZrF (g)
$\Delta H_{298}^0 = 82.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 243.7 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 33.83 + 6.02 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂ (g)	Fluorine	F₂ (g)
mp = 54 K (-219 °C)		bp = 80 K (-193 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 202.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.1 + 2.14 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -4.2 \cdot 10^3 \cdot T^{-1} + 0.25 \cdot \lg(T) + 2.44$ (400 ... 2000 K) [4]		
{Reaction: decomposition $1/2\text{F}_2(\text{g}) = \text{F}(\text{g})$ }		

F₂Fe (s)	Iron(II) Fluoride	F₂Fe (s)
FeF ₂ (s)		FeF ₂ (s)

mp = 1213 K (940 °C)

$$\Delta H_{298}^0 = -705.8 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 87 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 73.08 + 9.61 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1213 \text{ K}) [4]$$

$$\lg(p, K) = -16.96 \cdot 10^3 \cdot T^{-1} - 2.08 \cdot \lg(T) + 15.68 (1000 \dots 1213 \text{ K}) [4]$$

{Reaction: evaporation as FeF₂(g)}

F₂Fe (s)	Iron(II) Fluoride	F₂Fe (s)
FeF ₂ (s)		FeF ₂ (s)

$$\Delta H_{1213}^0 = -634.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1213}^0 = 194.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₂Fe (l)	Iron(II) Fluoride	F₂Fe (l)
FeF ₂ (l)		FeF ₂ (l)

$$\Delta H_{1213}^0 = -588.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1213}^0 = 232.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 98.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1213 \text{ K}) [4]$$

$$\lg(p, K) = -15.65 \cdot 10^3 \cdot T^{-1} - 4.09 \cdot \lg(T) + 20.8 (1213 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as FeF₂(g)}

F₂Fe (l)	Iron(II) Fluoride	F₂Fe (l)
FeF ₂ (l)		FeF ₂ (l)

$$\Delta H_{298}^0 = -674.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 98.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₂Fe (g)	Iron(II) Fluoride	F₂Fe (g)
FeF ₂ (g)		FeF ₂ (g)

$$\Delta H_{298}^0 = -389.5 \pm 14.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 265.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 70.54 - 3.32 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₂Ga (g)	Gallium(II) Fluoride	F₂Ga (g)
GaF ₂ (g)		GaF ₂ (g)

$\Delta H_{298}^0 = -536.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 279.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 55.22 + 1.84 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₂Ge (g)	Germanium(II) Fluoride	F₂Ge (g)
GeF ₂ (g)		GeF ₂ (g)

$\Delta H_{298}^0 = -574 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 270.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56.12 + 1.21 \cdot 10^{-3} \cdot T - 0.77 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₂HK (s)	Potassium Hydrogen Fluoride alpha	F₂HK (s)
KF · HF (s)		KF · HF (s)

mp = 512 K (239 °C)	
$\Delta H_{298}^0 = -931.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 104.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.21 + 89.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 470 K) [4]	

F₂HK (s)	Potassium Hydrogen Fluoride alpha	F₂HK (s)
KF · HF (s)		KF · HF (s)

$\Delta H_{470}^0 = -917.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{470}^0 = 142.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₂HK (s)	Potassium Hydrogen Fluoride beta	F₂HK (s)
KF · HF (s)		KF · HF (s)

$\Delta H_{470}^0 = -905.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{470}^0 = 166.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (470 K) [4]	

F₂HK (s)	Potassium Hydrogen Fluoride beta	F₂HK (s)
KF · HF (s)		KF · HF (s)

$\Delta H_{512}^0 = -901.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{512}^0 = 175 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₂HK (l)	Potassium Hydrogen Fluoride	F₂HK (l)
KF · HF (l)		KF · HF (l)

$$\Delta H_{512}^0 = -894.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{512}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (512 \text{ K}) [4]$$

F₂HK (l)	Potassium Hydrogen Fluoride	F₂HK (l)
KF · HF (l)		KF · HF (l)

$$\Delta H_{298}^0 = -916.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 132.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 76.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₂H₂ (g)	Hydrogen Fluoride	F₂H₂ (g)
H ₂ F ₂ (g)		H ₂ F ₂ (g)

$$\Delta H_{298}^0 = -572.7 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 238.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 47.57 + 17.97 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$\lg(p, K) = -0.69 \cdot 10^3 \cdot T^{-1} + 0.31 \cdot \lg(T) + 1.96 (298 \dots 1000 \text{ K}) [4]$$

{Reaction: decomposition 1/2H₂F₂(g) = HF(g)}

F₂H₂Si (g)	Difluorosilane	F₂H₂Si (g)
SiH ₂ F ₂ (g)		SiH ₂ F ₂ (g)

$$\Delta H_{298}^0 = -790.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 262.1 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 54.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₂Hg (s)	Mercury(II) Fluoride	F₂Hg (s)
HgF ₂ (s)		HgF ₂ (s)

$$\text{mp} = 918 \text{ K} (645 \text{ }^\circ\text{C})$$

$$\text{bp} = 919 \text{ K} (646 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -422.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 116.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.62 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 918 \text{ K}) [4]$$

$$\lg(p, K) = -7.43 \cdot 10^3 \cdot T^{-1} - 2.83 \cdot \lg(T) + 16.47 (500 \dots 918 \text{ K}) [4]$$

{Reaction: evaporation as HgF₂(g)}

F₂Hg (s) HgF ₂ (s)	Mercury(II) Fluoride	F₂Hg (s) HgF ₂ (s)
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$$\Delta H_{918}^0 = -372.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{918}^0 = 206.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₂Hg (l) HgF ₂ (l)	Mercury(II) Fluoride	F₂Hg (l) HgF ₂ (l)
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$$\Delta H_{918}^0 = -349.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{918}^0 = 231.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (918 \text{ K}) [4]$$

F₂Hg (l) HgF ₂ (l)	Mercury(II) Fluoride	F₂Hg (l) HgF ₂ (l)
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$$\Delta H_{298}^0 = -404.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 134.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 74.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₂Hg (g) HgF ₂ (g)	Mercury(II) Fluoride	F₂Hg (g) HgF ₂ (g)
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$$\Delta H_{298}^0 = -293.7 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 271.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 61.46 + 0.47 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₂Hg₂ (s) Hg ₂ F ₂ (s)	Mercury(I) Fluoride	F₂Hg₂ (s) Hg ₂ F ₂ (s)
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$$\Delta H_{298}^0 = -485.3 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 160.7 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 100 + 21.84 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 949 \text{ K}) [4]$$

F₂In (g) InF ₂ (g)	Indium(II) Fluoride	F₂In (g) InF ₂ (g)
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$$\Delta H_{298}^0 = -477.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 291.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 56.64 + 0.89 \cdot 10^{-3} \cdot T - 0.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₂K₂ (g) (KF) ₂ (g)	Potassium Fluoride	F₂K₂ (g) (KF) ₂ (g)
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$\Delta H_{298}^0 = -862.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 320 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.05 + 0.05 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p,K) = -15.19 \cdot 10^3 \cdot T^{-1} - 4.48 \cdot \lg(T) + 23.43$ (800 ... 1131 K) [4]	
{Reaction: evaporation of KF(s)}	

F₂Li₂ (g) (LiF) ₂ (g)	Lithium Fluoride	F₂Li₂ (g) (LiF) ₂ (g)
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$\Delta H_{298}^0 = -942.8 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 258.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 79.67 + 2.15 \cdot 10^{-3} \cdot T - 1.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1975 K) [4]	
$\lg(p,K) = -16.1 \cdot 10^3 \cdot T^{-1} - 4.68 \cdot \lg(T) + 24.17$ (900 ... 1121 K) [4]	
{Reaction: evaporation of LiF(s)}	

F₂Mg (s) MgF ₂ (s)	Magnesium(II) Fluoride	F₂Mg (s) MgF ₂ (s)
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mp = 1536 K (1263 °C)	bp = 2537 K (2264 °C)
$\Delta H_{298}^0 = -1124.2 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 57.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.32 + 5.37 \cdot 10^{-3} \cdot T - 1.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1536 K) [4]	
$\lg(p,K) = -21.36 \cdot 10^3 \cdot T^{-1} - 3.07 \cdot \lg(T) + 19.72$ (1200 ... 1536 K) [4]	
{Reaction: evaporation as MgF ₂ (g)}	

F₂Mg (s) MgF ₂ (s)	Magnesium(II) Fluoride	F₂Mg (s) MgF ₂ (s)
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$\Delta H_{1536}^0 = -1027.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1536}^0 = 181 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₂Mg (l) MgF ₂ (l)	Magnesium(II) Fluoride	F₂Mg (l) MgF ₂ (l)
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$\Delta H_{1536}^0 = -969 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1536}^0 = 219.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1536 K) [4]	
$\lg(p,K) = -19.19 \cdot 10^3 \cdot T^{-1} - 4.43 \cdot \lg(T) + 22.65$ (1536 ... 2000 K) [4]	
{Reaction: evaporation as MgF ₂ (g)}	

F₂Mg (l) MgF ₂ (l)	Magnesium(II) Fluoride	F₂Mg (l) MgF ₂ (l)
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$$\Delta H_{298}^0 = -1072.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 61.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

F₂Mg (g) MgF ₂ (g)	Magnesium(II) Fluoride	F₂Mg (g) MgF ₂ (g)
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$$\Delta H_{298}^0 = -726.8 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 256.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 55.45 + 1.63 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₂Mn (s) MnF ₂ (s)	Manganese(II) Fluoride alpha	F₂Mn (s) MnF ₂ (s)
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$$\text{mp} = 1173 \text{ K} (900 \text{ }^\circ\text{C})$$

$$\text{bp} = 2015 \text{ K} (1742 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -846.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 93.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 70.33 + 17.05 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1023 \text{ K}) [4]$$

F₂Mn (s) MnF ₂ (s)	Manganese(II) Fluoride alpha	F₂Mn (s) MnF ₂ (s)
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$$\Delta H_{1023}^0 = -789.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1023}^0 = 188.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₂Mn (s) MnF ₂ (s)	Manganese(II) Fluoride beta	F₂Mn (s) MnF ₂ (s)
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$$\Delta H_{1023}^0 = -787.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1023}^0 = 190.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 65.51 + 21.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1023 \dots 1173 \text{ K}) [4]$$

$$\lg(\rho, K) = -17.3 \cdot 10^3 \cdot T^{-1} - 3.26 \cdot \lg(T) + 19.84 (1023 \dots 1173 \text{ K}) [4]$$

{Reaction: evaporation as MnF₂(g)}

F₂Mn (s) MnF ₂ (s)	Manganese(II) Fluoride beta	F₂Mn (s) MnF ₂ (s)
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$$\Delta H_{1173}^0 = -773.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1173}^0 = 203.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₂Mn (l) MnF ₂ (l)	Manganese(II) Fluoride	F₂Mn (l) MnF ₂ (l)
$\Delta H_{1173}^0 = -748.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1173}^0 = 224.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 92.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1173 K) [4]		
$\lg(p,K) = -16.16 \cdot 10^{-3} \cdot T^{-1} - 3.6 \cdot \lg(T) + 19.92$ (1173 ... 2015 K) [4]		
{Reaction: evaporation as MnF ₂ (g)}		
F₂Mn (g) MnF ₂ (g)	Manganese(II) Fluoride	F₂Mn (g) MnF ₂ (g)
$\Delta H_{298}^0 = -527.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 281.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.21 + 0.06 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2015 K) [4]		
F₂Mo (g) MoF ₂ (g)	Molybdenum(II) Fluoride	F₂Mo (g) MoF ₂ (g)
$\Delta H_{298}^0 = -162.8 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.21 + 0.06 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2896 K) [4]		
F₂N (g) NF ₂ (g)	Difluoroamidogen	F₂N (g) NF ₂ (g)
$\Delta H_{298}^0 = 42.3 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 250 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂N₂ (g) FNNF (g)	Nitrogen(I) Fluoride cis	F₂N₂ (g) FNNF (g)
$\Delta H_{298}^0 = 68.6 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 259.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂N₂ (g) FNNF (g)	Nitrogen(I) Fluoride trans	F₂N₂ (g) FNNF (g)
$\Delta H_{298}^0 = 81.2 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 262.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

F₂Na₂ (g) (NaF) ₂ (g)	Sodium Fluoride	F₂Na₂ (g) (NaF) ₂ (g)
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$\Delta H_{298}^0 = -846.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 287.4 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.92 + 0.76 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2075 K) [4]	
$\lg(p,K) = -17.82 \cdot 10^3 \cdot T^{-1} - 5.31 \cdot \lg(T) + 26.1$ (1000 ... 1269 K) [4]	
{Reaction: evaporation of NaF(s)}	

F₂Ni (s) NiF ₂ (s)	Nickel(II) Fluoride	F₂Ni (s) NiF ₂ (s)
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mp = 1723 K (1450 °C)	bp = 1714 K (1441 °C)
$\Delta H_{298}^0 = -657.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	
$C_p^0 = 66.6 + 13.94 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1714 K) [4]	
$\lg(p,K) = -17.41 \cdot 10^3 \cdot T^{-1} - 2.35 \cdot \lg(T) + 17.76$ (900 ... 1714 K) [4]	
{Reaction: evaporation as NiF ₂ (g)}	

F₂Ni (g) NiF ₂ (g)	Nickel(II) Fluoride	F₂Ni (g) NiF ₂ (g)
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$\Delta H_{298}^0 = -335.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 273.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 64.31 + 1.04 \cdot 10^{-3} \cdot T - 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₂NpO₂ (s) NpO ₂ F ₂ (s)	Neptunium Oxide Fluoride	F₂NpO₂ (s) NpO ₂ F ₂ (s)
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$\Delta H_{298}^0 = -1608 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [227]	$S_{298}^0 = 147 \pm 9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [227]
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F₂O (g) FOF (g)	Oxygen Fluoride	F₂O (g) FOF (g)
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$\Delta H_{298}^0 = 24.5 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 247.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.22 + 4.1 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [6]	

F₂OS (g) OSF ₂ (g)	Thionyl Fluoride	F₂OS (g) OSF ₂ (g)
mp = 163 K (-110 °C)		bp = 243 K (-30 °C)
$\Delta H_{298}^0 = -543.9 \pm 105 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 279.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 69.98 + 13.38 \cdot 10^{-3} \cdot T - 1.44 \cdot 10^6 \cdot T^{-2} - 3.58 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂OSi (g) OSiF ₂ (g)	Difluoroosilane	F₂OSi (g) OSiF ₂ (g)
$\Delta H_{298}^0 = -966.5 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂OTh (s) ThOF ₂ (s)	Thorium Oxide Fluoride	F₂OTh (s) ThOF ₂ (s)
$\Delta H_{298}^0 = -1665.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 90.63 + 16.9 \cdot 10^{-3} \cdot T - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1926 K) [4]		
F₂OTi (g) TiOF ₂ (g)	Titanium Oxide Fluoride	F₂OTi (g) TiOF ₂ (g)
$\Delta H_{298}^0 = -924.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 284.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂OU (s) UOF ₂ (s)	Uranium Oxide Difluoride	F₂OU (s) UOF ₂ (s)
$\Delta H_{298}^0 = -1499.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 88.49 + 14.64 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
F₂O₂ (g) FOOF (g)	Oxygen Fluoride	F₂O₂ (g) FOOF (g)
$\Delta H_{298}^0 = 19.2 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 277.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

F₂O₂S (g)	Sulfuryl Fluoride	F₂O₂S (g)
SO ₂ F ₂ (g)		SO ₂ F ₂ (g)

mp = 153 K (-120 °C)

bp = 221 K (-52 °C)

 $\Delta H_{298}^0 = -758.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 283.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 92.77 + 8.12 \cdot 10^{-3} \cdot T - 2.84 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

F₂O₂U (s)	Uranyl Difluoride	F₂O₂U (s)
UO ₂ F ₂ (s)		UO ₂ F ₂ (s)

 $\Delta H_{298}^0 = -1651.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 135.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 122.88 + 8.62 \cdot 10^{-3} \cdot T - 1.99 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]

F₂P (g)	Phosphorus Fluoride	F₂P (g)
PF ₂ (g)		PF ₂ (g)

 $\Delta H_{298}^0 = -488.3 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 263 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 44.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

F₂Pb (s)	Lead(II) Fluoride alpha	F₂Pb (s)
PbF ₂ (s)		PbF ₂ (s)

mp = 1103 K (830 °C)

bp = 1577 K (1304 °C)

 $\Delta H_{298}^0 = -677 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 113 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 61.38 + 36.61 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 583 K) [4]

F₂Pb (s)	Lead(II) Fluoride alpha	F₂Pb (s)
PbF ₂ (s)		PbF ₂ (s)

 $\Delta H_{583}^0 = -654.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{583}^0 = 164.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₂Pb (s)	Lead(II) Fluoride beta	F₂Pb (s)
PbF ₂ (s)		PbF ₂ (s)

 $\Delta H_{583}^0 = -653.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{583}^0 = 167.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 146.07 - 48.97 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (583 ... 1103 K) [4] $\lg(p, K) = -12.87 \cdot 10^3 \cdot T^{-1} - 5.78 \cdot \lg(T) + 26.85$ (700 ... 1103 K) [4]{Reaction: evaporation as PbF₂(g)}

F₂Pb (s) PbF ₂ (s)	Lead(II) Fluoride beta	F₂Pb (s) PbF ₂ (s)
$\Delta H_{1103}^0 = -598.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1103}^0 = 234.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₂Pb (l) PbF ₂ (l)	Lead(II) Fluoride	F₂Pb (l) PbF ₂ (l)
$\Delta H_{1103}^0 = -584.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1103}^0 = 248.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 109.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1103 K) [4]		
$\lg(\rho, K) = -12.36 \cdot 10^3 \cdot T^{-1} - 6.19 \cdot \lg(T) + 27.63$ (1103 ... 1577 K) [4]		
{Reaction: evaporation as PbF ₂ (g)}		
F₂Pb (l) PbF ₂ (l)	Lead(II) Fluoride	F₂Pb (l) PbF ₂ (l)
$\Delta H_{298}^0 = -660.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 130.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂Pb (g) PbF ₂ (g)	Lead(II) Fluoride	F₂Pb (g) PbF ₂ (g)
$\Delta H_{298}^0 = -449.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 292.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.4 + 0.54 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂Pd (s) PdF ₂ (s)	Palladium(II) Fluoride	F₂Pd (s) PdF ₂ (s)
$\Delta H_{298}^0 = -468.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 65.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
F₂Rb₂ (g) (RbF) ₂ (g)	Rubidium Fluoride	F₂Rb₂ (g) (RbF) ₂ (g)
$\Delta H_{298}^0 = -854 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 344 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

F₂Ru (g) RuF ₂ (g)	Ruthenium(II) Fluoride	F₂Ru (g) RuF ₂ (g)
$\Delta H_{298}^0 = -55.2 \pm 15 \text{ kJ}\cdot\text{mol}^{-1}$ [278]		$S_{298}^0 = [277.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
F₂S (g) SF ₂ (g)	Sulfur(II) Fluoride	F₂S (g) SF ₂ (g)
		bp = 238 K (-35 °C)
$\Delta H_{298}^0 = -296.6 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 257.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.99 + 1.76 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂S₂ (g) SSF ₂ (g)	Thiothionyl Fluoride	F₂S₂ (g) SSF ₂ (g)
mp = 153 K (-120 °C)		bp = 335 K (62 °C)
$\Delta H_{298}^0 = -297 \text{ kJ}\cdot\text{mol}^{-1}$ [91]		$S_{298}^0 = 292.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.28 + 5.79 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂S₂ (g) FSSF (g)	Difluorodisulfane	F₂S₂ (g) FSSF (g)
mp = 108 K (-165 °C)		bp = 263 K (-10 °C)
$\Delta H_{298}^0 = -286 \text{ kJ}\cdot\text{mol}^{-1}$ [91]		$S_{298}^0 = 294.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.91 + 2.71 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂Sc (g) ScF ₂ (g)	Scandium(II) Fluoride	F₂Sc (g) ScF ₂ (g)
$\Delta H_{298}^0 = -648.5 \text{ kJ}\cdot\text{mol}^{-1}$ [93]		$S_{298}^0 = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [93]
F₂Se (g) SeF ₂ (g)	Selenium(II) Fluoride	F₂Se (g) SeF ₂ (g)
$\Delta H_{298}^0 = -312.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 269.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 56.71 + 0.78 \cdot 10^{-3} \cdot T - 0.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₂Si (g)	Difluorosilylene	F₂Si (g)
SiF ₂ (g)		SiF ₂ (g)

$\Delta H_{298}^0 = -587.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 256.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.63 + 2.72 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₂Sn (s)	Tin(II) Fluoride	F₂Sn (s)
SnF ₂ (s)		SnF ₂ (s)

mp = 488 K (215 °C)	bp = 1054 K (781 °C)
$\Delta H_{298}^0 = -648.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 96.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 54.68 + 59.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 488 K) [4]	

F₂Sn (s)	Tin(II) Fluoride	F₂Sn (s)
SnF ₂ (s)		SnF ₂ (s)

$\Delta H_{488}^0 = -633.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{488}^0 = 134.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₂Sn (l)	Tin(II) Fluoride	F₂Sn (l)
SnF ₂ (l)		SnF ₂ (l)

$\Delta H_{488}^0 = -623.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{488}^0 = 155.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (488 K) [4]	
$\lg(p, K) = -8.93 \cdot 10^3 \cdot T^{-1} - 5.32 \cdot \lg(T) + 24.55$ (488 ... 1054 K) [4]	
{Reaction: evaporation as SnF ₂ (g)}	

F₂Sn (g)	Tin(II) Fluoride	F₂Sn (g)
SnF ₂ (g)		SnF ₂ (g)

$\Delta H_{298}^0 = -484 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 282.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56.84 + 0.8 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₂Sr (s)	Strontium(II) Fluoride	F₂Sr (s)
SrF ₂ (s)		SrF ₂ (s)

mp = 1750 K (1477 °C)

bp = 2730 K (2457 °C)

 $\Delta H_{298}^0 = -1216.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 82.1 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 35.31 + 60.61 \cdot 10^{-3} \cdot T + 1.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1480 K) [4] $\lg(p, K) = -26.16 \cdot 10^3 \cdot T^{-1} - 7.51 \cdot \lg(T) + 35.64$ (1300 ... 1480 K) [4]{Reaction: evaporation as SrF₂(g)}

F₂Sr (s)	Strontium(II) Fluoride	F₂Sr (s)
SrF ₂ (s)		SrF ₂ (s)

 $\Delta H_{1750}^0 = -1072.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1750}^0 = 239.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₂Sr (l)	Strontium(II) Fluoride	F₂Sr (l)
SrF ₂ (l)		SrF ₂ (l)

 $\Delta H_{1750}^0 = -1043 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1750}^0 = 256.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 98.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1750 K) [4] $\lg(p, K) = -22.48 \cdot 10^3 \cdot T^{-1} - 4.83 \cdot \lg(T) + 24.83$ (1750 ... 2000 K) [4]{Reaction: evaporation as SrF₂(g)}

F₂Sr (l)	Strontium(II) Fluoride	F₂Sr (l)
SrF ₂ (l)		SrF ₂ (l)

 $\Delta H_{298}^0 = -1172 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 109.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 69.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

F₂Sr (g)	Strontium(II) Fluoride	F₂Sr (g)
SrF ₂ (g)		SrF ₂ (g)

 $\Delta H_{298}^0 = -766.1 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 291.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 57.64 + 0.35 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

F₂Te (g) TeF ₂ (g)	Tellurium(II) Fluoride	F₂Te (g) TeF ₂ (g)
$\Delta H_{298}^0 = -384.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 275.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56.17 + 1.07 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₂Th (g) ThF ₂ (g)	Thorium(II) Fluoride	F₂Th (g) ThF ₂ (g)
$\Delta H_{298}^0 = -654.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 295.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 57.53 + 0.42 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1943 K) [4]		
F₂Ti (g) TiF ₂ (g)	Titanium(II) Fluoride	F₂Ti (g) TiF ₂ (g)
$\Delta H_{298}^0 = -688.3 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 255.7 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 59.47 + 2.56 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1939 K) [4]		
F₂Tl₂ (g) (TlF) ₂ (g)	Thallium(I) Fluoride	F₂Tl₂ (g) (TlF) ₂ (g)
$\Delta H_{298}^0 = -513.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 358 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.95 + 0.12 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -6.69 \cdot 10^3 \cdot T^{-1} - 6.24 \cdot \lg(T) + 24.98$ (595 ... 1049 K) [4]		
{Reaction: evaporation of TlF(s)}		
F₂U (g) UF ₂ (g)	Uranium(II) Fluoride	F₂U (g) UF ₂ (g)
$\Delta H_{298}^0 = -539.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 296.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
F₂Xe (g) XeF ₂ (g)	Xenon Fluoride	F₂Xe (g) XeF ₂ (g)
$\Delta H_{298}^0 = -130 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 260 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]

F₂Zn (s)	Zinc(II) Fluoride	F₂Zn (s)
ZnF ₂ (s)	alpha	ZnF ₂ (s)

mp = 1223 K (950 °C)

bp = 1776 K (1503 °C)

$\Delta H^0_{298} = -764.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]

$S^0_{298} = 73.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

$C_p^0 = 65.52 + 23.41 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1080 K) [4]

$\lg(p,K) = -15.19 \cdot 10^3 \cdot T^{-1} - 3.44 \cdot \lg(T) + 20.39$ (800 ... 1080 K) [4]

{Reaction: evaporation as ZnF₂(g)}

F₂Zn (s)	Zinc(II) Fluoride	F₂Zn (s)
ZnF ₂ (s)	alpha	ZnF ₂ (s)

$\Delta H^0_{1080} = -702.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]

$S^0_{1080} = 173.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₂Zn (s)	Zinc(II) Fluoride	F₂Zn (s)
ZnF ₂ (s)	beta	ZnF ₂ (s)

$\Delta H^0_{1080} = -698.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]

$S^0_{1080} = 176 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

$C_p^0 = 61.63 + 26.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1080 ... 1223 K) [4]

$\lg(p,K) = -15.34 \cdot 10^3 \cdot T^{-1} - 4.12 \cdot \lg(T) + 22.59$ (1080 ... 1223 K) [4]

{Reaction: evaporation as ZnF₂(g)}

F₂Zn (s)	Zinc(II) Fluoride	F₂Zn (s)
ZnF ₂ (s)	beta	ZnF ₂ (s)

$\Delta H^0_{1223} = -685.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]

$S^0_{1223} = 187.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₂Zn (l)	Zinc(II) Fluoride	F₂Zn (l)
ZnF ₂ (l)		ZnF ₂ (l)

$\Delta H^0_{1223} = -645.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]

$S^0_{1223} = 220.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

$C_p^0 = 103.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1223 K) [4]

$\lg(p,K) = -13.98 \cdot 10^3 \cdot T^{-1} - 5.49 \cdot \lg(T) + 25.71$ (1223 ... 1776 K) [4]

{Reaction: evaporation as ZnF₂(g)}

F₂Zn (g) ZnF ₂ (g)	Zinc(II) Fluoride	F₂Zn (g) ZnF ₂ (g)
$\Delta H_{298}^0 = -487.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 260.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
F₂Zr (s) ZrF ₂ (s)	Zirconium(II) Fluoride	F₂Zr (s) ZrF ₂ (s)
mp = 1175 K (902 °C)		bp = 2537 K (2264 °C)
$\Delta H_{298}^0 = -962.3 \pm 63 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 75.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 66.05 + 18.54 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1175 K) [4]		
F₂Zr (s) ZrF ₂ (s)	Zirconium(II) Fluoride	F₂Zr (s) ZrF ₂ (s)
$\Delta H_{1175}^0 = -893.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1175}^0 = 179.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₂Zr (l) ZrF ₂ (l)	Zirconium(II) Fluoride	F₂Zr (l) ZrF ₂ (l)
$\Delta H_{1175}^0 = -855.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1175}^0 = 211.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1175 K) [4]		
F₂Zr (l) ZrF ₂ (l)	Zirconium(II) Fluoride	F₂Zr (l) ZrF ₂ (l)
$\Delta H_{298}^0 = -937 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₂Zr (g) ZrF ₂ (g)	Zirconium(II) Fluoride	F₂Zr (g) ZrF ₂ (g)
$\Delta H_{298}^0 = -558.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 283.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.61 + 2.19 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₃Fe (s) FeF ₃ (s)	Iron(III) Fluoride	F₃Fe (s) FeF ₃ (s)
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bp = 1132 K (859 °C)

$$\Delta H_{298}^0 = -1039.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 98.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 90.75 + 11.31 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1132 \text{ K}) [4]$$

$$\lg(p, K) = -11.75 \cdot 10^3 \cdot T^{-1} - 2.57 \cdot \lg(T) + 18.23 (600 \dots 1132 \text{ K}) [4]$$

{Reaction: evaporation as FeF₃(g)}

F₃Fe (s) FeF ₃ (s)	Iron(III) Fluoride	F₃Fe (s) FeF ₃ (s)
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$$\Delta H_{1132}^0 = -957.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1132}^0 = 227.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Fe (g) FeF ₃ (g)	Iron(III) Fluoride	F₃Fe (g) FeF ₃ (g)
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$$\Delta H_{1132}^0 = -756.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1132}^0 = 405 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1132 \text{ K}) [4]$$

F₃Fe (g) FeF ₃ (g)	Iron(III) Fluoride	F₃Fe (g) FeF ₃ (g)
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$$\Delta H_{298}^0 = -820.9 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 304.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 78.59 + 2.8 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Ga (s) GaF ₃ (s)	Gallium(III) Fluoride	F₃Ga (s) GaF ₃ (s)
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bp = 1350 K (1077 °C)

$$\Delta H_{298}^0 = -1174.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 77.85 + 37.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1350 \text{ K}) [4]$$

$$\lg(p, K) = -13.57 \cdot 10^3 \cdot T^{-1} - 4.37 \cdot \lg(T) + 23.73 (700 \dots 1350 \text{ K}) [4]$$

{Reaction: evaporation as GaF₃(g)}

F₃Ga (g)	Gallium(III) Fluoride	F₃Ga (g)
GaF ₃ (g)		GaF ₃ (g)

$\Delta H_{298}^0 = -932.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 292.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.09 + 2.36 \cdot 10^{-3} \cdot T - 1.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₃Gd (s)	Gadolinium(III) Fluoride	F₃Gd (s)
GdF ₃ (s)	alpha	GdF ₃ (s)

mp = 1505 K (1232 °C)	bp = 2664 K (2391 °C)
$\Delta H_{298}^0 = -1699.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 114.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 101.99 + 6.5 \cdot 10^{-3} \cdot T - 1.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1348 K) [4]	
$\lg(p,K) = -24.24 \cdot 10^3 \cdot T^{-1} - 3.28 \cdot \lg(T) + 21.42$ (1200 ... 1348 K) [4]	
{Reaction: evaporation as GdF ₃ (g)}	

F₃Gd (s)	Gadolinium(III) Fluoride	F₃Gd (s)
GdF ₃ (s)	alpha	GdF ₃ (s)

$\Delta H_{1348}^0 = -1590 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1348}^0 = 268.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1348 K) [4]	

F₃Gd (s)	Gadolinium(III) Fluoride	F₃Gd (s)
GdF ₃ (s)	beta	GdF ₃ (s)

$\Delta H_{1348}^0 = -1584 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1348}^0 = 272.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 130.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1348 K) [4]	
$\lg(p,K) = -25.42 \cdot 10^3 \cdot T^{-1} - 5.83 \cdot \lg(T) + 30.28$ (1348 ... 1505 K) [4]	
{Reaction: evaporation as GdF ₃ (g)}	

F₃Gd (s)	Gadolinium(III) Fluoride	F₃Gd (s)
GdF ₃ (s)	beta	GdF ₃ (s)

$\Delta H_{1505}^0 = -1563.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1505}^0 = 287 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₃Gd (l)	Gadolinium(III) Fluoride	F₃Gd (l)
GdF ₃ (l)		GdF ₃ (l)

$$\Delta H_{1505}^0 = -1511.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1505}^0 = 321.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 127.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1505 \text{ K}) [4]$$

$$\lg(p, K) = -22.36 \cdot 10^3 \cdot T^{-1} - 5.36 \cdot \lg(T) + 26.76 (1505 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as GdF₃(g)}

F₃Gd (g)	Gadolinium(III) Fluoride	F₃Gd (g)
GdF ₃ (g)		GdF ₃ (g)

$$\Delta H_{298}^0 = -1246.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 335.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.49 + 0.96 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Ge (g)	Germanium(III) Fluoride	F₃Ge (g)
GeF ₃ (g)		GeF ₃ (g)

$$\Delta H_{298}^0 = -753 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 297.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 79.58 + 2.21 \cdot 10^{-3} \cdot T - 1.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃HSi (g)	Trifluorosilane	F₃HSi (g)
SiHF ₃ (g)		SiHF ₃ (g)

$$\Delta H_{298}^0 = -1200.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 277.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 63.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₃H₃ (g)	Hydrogen Fluoride	F₃H₃ (g)
H ₃ F ₃ (g)		H ₃ F ₃ (g)

$$\Delta H_{298}^0 = -879.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 288.5 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 75.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₃Ho (s) HoF ₃ (s)	Holmium(III) Fluoride alpha	F₃Ho (s) HoF ₃ (s)
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mp = 1416 K (1143 °C)

bp = 2542 K (2269 °C)

 $\Delta H^0_{298} = -1697.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S^0_{298} = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 99.76 + 6.09 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1343 K) [4] $\lg(p,K) = -24.24 \cdot 10^3 \cdot T^{-1} - 2.88 \cdot \lg(T) + 20.22$ (1200 ... 1343 K) [4]{Reaction: evaporation as HoF₃(g)}

F₃Ho (s) HoF ₃ (s)	Holmium(III) Fluoride alpha	F₃Ho (s) HoF ₃ (s)
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 $\Delta H^0_{1343} = -1590.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1343} = 270.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Ho (s) HoF ₃ (s)	Holmium(III) Fluoride beta	F₃Ho (s) HoF ₃ (s)
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 $\Delta H^0_{1343} = -1590 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1343} = 271 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 126.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1343 K) [4] $\lg(p,K) = -25.52 \cdot 10^3 \cdot T^{-1} - 5.15 \cdot \lg(T) + 28.27$ (1343 ... 1416 K) [4]{Reaction: evaporation as HoF₃(g)}

F₃Ho (s) HoF ₃ (s)	Holmium(III) Fluoride beta	F₃Ho (s) HoF ₃ (s)
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 $\Delta H^0_{1416} = -1580.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1416} = 277.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Ho (l) HoF ₃ (l)	Holmium(III) Fluoride	F₃Ho (l) HoF ₃ (l)
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 $\Delta H^0_{1416} = -1524.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{1416} = 317.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 95.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1416 K) [4] $\lg(p,K) = -20.26 \cdot 10^3 \cdot T^{-1} - 1.39 \cdot \lg(T) + 12.71$ (1416 ... 2000 K) [4]{Reaction: evaporation as HoF₃(g)}

F₃Ho (g)	Holmium(III) Fluoride	F₃Ho (g)
HoF ₃ (g)		HoF ₃ (g)

$$\Delta H_{298}^0 = -1242.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 342.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 79.99 + 2.78 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃In (s)	Indium(III) Fluoride	F₃In (s)
InF ₃ (s)		InF ₃ (s)

$$\text{mp} = 1445 \text{ K (1172 } ^\circ\text{C)}$$

$$\text{bp} = 2177 \text{ K (1904 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1189.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.12 + 36.57 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1445 \text{ K}) [4]$$

$$\lg(p, K) = -18.71 \cdot 10^3 \cdot T^{-1} - 5.3 \cdot \lg(T) + 27.1 (1000 \dots 1445 \text{ K}) [4]$$

{Reaction: evaporation as InF₃(g)}

F₃In (s)	Indium(III) Fluoride	F₃In (s)
InF ₃ (s)		InF ₃ (s)

$$\Delta H_{1445}^0 = -1060.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1445}^0 = 280 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃In (l)	Indium(III) Fluoride	F₃In (l)
InF ₃ (l)		InF ₃ (l)

$$\Delta H_{1445}^0 = -996.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1445}^0 = 324.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1445 \text{ K}) [4]$$

$$\lg(p, K) = -15.87 \cdot 10^3 \cdot T^{-1} - 6.15 \cdot \lg(T) + 27.82 (1445 \dots 2177 \text{ K}) [4]$$

{Reaction: evaporation as InF₃(g)}

F₃In (g)	Indium(III) Fluoride	F₃In (g)
InF ₃ (g)		InF ₃ (g)

$$\Delta H_{298}^0 = -857.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 310 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 81.02 + 1.21 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2300 \text{ K}) [4]$$

F₃La (s)	Lanthanum(III) Fluoride	F₃La (s)
LaF ₃ (s)		LaF ₃ (s)

mp = 1766 K (1493 °C)

bp = 2569 K (2296 °C)

 $\Delta H_{298}^0 = -1699.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 107 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 71.84 + 43.63 \cdot 10^{-3} \cdot T + 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1766 K) [4] $\lg(p,K) = -24.97 \cdot 10^3 \cdot T^{-1} - 6.52 \cdot \lg(T) + 32.52$ (1200 ... 1766 K) [4]{Reaction: evaporation as LaF₃(g)}

F₃La (s)	Lanthanum(III) Fluoride	F₃La (s)
LaF ₃ (s)		LaF ₃ (s)

 $\Delta H_{1766}^0 = -1526.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1766}^0 = 301.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃La (l)	Lanthanum(III) Fluoride	F₃La (l)
LaF ₃ (l)		LaF ₃ (l)

 $\Delta H_{1766}^0 = -1476.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1766}^0 = 329.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1766 K) [4] $\lg(p,K) = -25.04 \cdot 10^3 \cdot T^{-1} - 10.11 \cdot \lg(T) + 44.22$ (1766 ... 2000 K) [4]{Reaction: evaporation as LaF₃(g)}

F₃La (g)	Lanthanum(III) Fluoride	F₃La (g)
LaF ₃ (g)		LaF ₃ (g)

 $\Delta H_{298}^0 = -1264.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 321.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 81.82 + 0.78 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

F₃Li₃ (g)	Lithium Fluoride	F₃Li₃ (g)
(LiF) ₃ (g)		(LiF) ₃ (g)

 $\Delta H_{298}^0 = -1517.2 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 318.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 127.14 + 3.65 \cdot 10^{-3} \cdot T - 2.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1975 K) [4] $\lg(p,K) = -18.62 \cdot 10^3 \cdot T^{-1} - 6.05 \cdot \lg(T) + 29.77$ (900 ... 1121 K) [4]

{Reaction: evaporation of LiF(s)}

F₃Lu (s) LuF ₃ (s)	Lutetium(III) Fluoride alpha	F₃Lu (s) LuF ₃ (s)
mp = 1457 K (1184 °C)		bp = 2503 K (2230 °C)
$\Delta H_{298}^0 = -1681.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 94.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.14 + 19.21 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1230 K) [4]		
F₃Lu (s) LuF ₃ (s)	Lutetium(III) Fluoride alpha	F₃Lu (s) LuF ₃ (s)
$\Delta H_{1230}^0 = -1586.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1230}^0 = 235.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Lu (s) LuF ₃ (s)	Lutetium(III) Fluoride beta	F₃Lu (s) LuF ₃ (s)
$\Delta H_{1230}^0 = -1561.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1230}^0 = 255.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 106.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1230 K) [4]		
$\lg(p,K) = -21.86 \cdot 10^3 \cdot T^{-1} - 2.92 \cdot \lg(T) + 19.2$ (1230 ... 1457 K) [4]		
{Reaction: evaporation as LuF ₃ (g)}		
F₃Lu (s) LuF ₃ (s)	Lutetium(III) Fluoride beta	F₃Lu (s) LuF ₃ (s)
$\Delta H_{1457}^0 = -1537 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1457}^0 = 273.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Lu (l) LuF ₃ (l)	Lutetium(III) Fluoride	F₃Lu (l) LuF ₃ (l)
$\Delta H_{1457}^0 = -1506.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1457}^0 = 294.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 214.85 - 0.54 \cdot 10^{-3} \cdot T - 234.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1457 ... 1800 K) [4]		
$\lg(p,K) = -21.51 \cdot 10^3 \cdot T^{-1} - 4.79 \cdot \lg(T) + 24.87$ (1457 ... 1800 K) [4]		
{Reaction: evaporation as LuF ₃ (g)}		
F₃Lu (g) LuF ₃ (g)	Lutetium(III) Fluoride	F₃Lu (g) LuF ₃ (g)
$\Delta H_{298}^0 = -1246.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 315.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.16 + 1.16 \cdot 10^{-3} \cdot T - 0.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₃Mn (s) MnF ₃ (s)	Manganese(III) Fluoride	F₃Mn (s) MnF ₃ (s)
$\Delta H_{298}^0 = -1071.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.01 + 30.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [3]		
F₃Mo (s) MoF ₃ (s)	Molybdenum(III) Fluoride	F₃Mo (s) MoF ₃ (s)
$\Delta H_{298}^0 = -893.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 91.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 99.41 + 7.45 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1237 K) [4]		
F₃Mo (g) MoF ₃ (g)	Molybdenum(III) Fluoride	F₃Mo (g) MoF ₃ (g)
$\Delta H_{298}^0 = -607.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 296 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.96 + 5.36 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2896 K) [4]		
F₃N (g) NF ₃ (g)	Nitrogen(III) Fluoride	F₃N (g) NF ₃ (g)
$\Delta H_{298}^0 = -132.1 \pm 1.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 260.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₃NO (g) NF ₃ O (g)	Nitrogen Oxide Fluoride	F₃NO (g) NF ₃ O (g)
$\Delta H_{298}^0 = -163.2 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 278.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 67.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₃Nd (s) NdF ₃ (s)	Neodymium(III) Fluoride	F₃Nd (s) NdF ₃ (s)
mp = 1650 K (1377 °C)		bp = 2577 K (2304 °C)
$\Delta H_{298}^0 = -1679.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 120.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 92.7 + 23.43 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1650 K) [4]		
$\lg(p,K) = -24.24 \cdot 10^3 \cdot T^{-1} - 4.61 \cdot \lg(T) + 25.96$ (1200 ... 1650 K) [4]		
{Reaction: evaporation as NdF ₃ (g)}		

F₃Nd (s)	Neodymium(III) Fluoride	F₃Nd (s)
NdF ₃ (s)		NdF ₃ (s)

$$\Delta H_{1650}^0 = -1525.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1650}^0 = 307.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Nd (l)	Neodymium(III) Fluoride	F₃Nd (l)
NdF ₃ (l)		NdF ₃ (l)

$$\Delta H_{1650}^0 = -1470.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1650}^0 = 340.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 172.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1650 \text{ K}) [4]$$

$$\lg(p, K) = -25.17 \cdot 10^3 \cdot T^{-1} - 9.91 \cdot \lg(T) + 43.57 (1650 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as NdF₃(g)}

F₃Nd (g)	Neodymium(III) Fluoride	F₃Nd (g)
NdF ₃ (g)		NdF ₃ (g)

$$\Delta H_{298}^0 = -1238.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 340.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.21 + 4.66 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Np (s)	Neptunium(III) Fluoride	F₃Np (s)
NpF ₃ (s)		NpF ₃ (s)

$$\Delta H_{298}^0 = -1506.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 118.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 108.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

F₃OP (g)	Phosphoryl Fluoride	F₃OP (g)
POF ₃ (g)		POF ₃ (g)

$$\Delta H_{298}^0 = -1254.3 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 285.4 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 68.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₃P (g)	Phosphorus(III) Fluoride	F₃P (g)
PF ₃ (g)		PF ₃ (g)

$$\text{mp} = 113 \text{ K} (-160 \text{ }^\circ\text{C})$$

$$\text{bp} = 178 \text{ K} (-95 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -958.4 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 273.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 78.1 + 2.7 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃PS (g)	Thiophosphoryl Fluoride	F₃PS (g)
PSF ₃ (g)		PSF ₃ (g)

$$\Delta H_{298}^0 = -1009.1 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 298.1 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 74.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₃Pr (s)	Praseodymium(III) Fluoride	F₃Pr (s)
PrF ₃ (s)		PrF ₃ (s)

$$\text{mp} = 1672 \text{ K} (1399 \text{ }^\circ\text{C})$$

$$\text{bp} = 2569 \text{ K} (2296 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1689.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 121.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 103.93 + 12.59 \cdot 10^{-3} \cdot T - 1.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1672 \text{ K}) [4]$$

$$\lg(p, K) = -23.28 \cdot 10^3 \cdot T^{-1} - 3.89 \cdot \lg(T) + 23.2 (1200 \dots 1672 \text{ K}) [4]$$

{Reaction: evaporation as PrF₃(g)}

F₃Pr (s)	Praseodymium(III) Fluoride	F₃Pr (s)
PrF ₃ (s)		PrF ₃ (s)

$$\Delta H_{1672}^0 = -1533 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1672}^0 = 310.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Pr (l)	Praseodymium(III) Fluoride	F₃Pr (l)
PrF ₃ (l)		PrF ₃ (l)

$$\Delta H_{1672}^0 = -1456 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1672}^0 = 356.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 130.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1672 \text{ K}) [4]$$

$$\lg(p, K) = -19.85 \cdot 10^3 \cdot T^{-1} - 4.72 \cdot \lg(T) + 23.82 (1672 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as PrF₃(g)}

F₃Pr (g)	Praseodymium(III) Fluoride	F₃Pr (g)
PrF ₃ (g)		PrF ₃ (g)

$$\Delta H_{298}^0 = -1258.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 339.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 80.72 + 6.04 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Pu (s) PuF ₃ (s)	Plutonium(III) Fluoride	F₃Pu (s) PuF ₃ (s)
mp = 1699 K (1426 °C)		bp = 2460 K (2187 °C)
$\Delta H_{298}^0 = -1552.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 126.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.8 + 24.66 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1699 K) [4]		
$\lg(p, K) = -24.95 \cdot 10^3 \cdot T^{-1} - 7.05 \cdot \lg(T) + 34.22$ (1200 ... 1699 K) [4]		
{Reaction: evaporation as PuF ₃ (g)}		
F₃Pu (s) PuF ₃ (s)	Plutonium(III) Fluoride	F₃Pu (s) PuF ₃ (s)
$\Delta H_{1699}^0 = -1387.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1699}^0 = 321 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Pu (l) PuF ₃ (l)	Plutonium(III) Fluoride	F₃Pu (l) PuF ₃ (l)
$\Delta H_{1699}^0 = -1332.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1699}^0 = 353 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1699 K) [4]		
$\lg(p, K) = -23.5 \cdot 10^3 \cdot T^{-1} - 6.45 \cdot \lg(T) + 31.43$ (1699 ... 2000 K) [4]		
{Reaction: evaporation as PuF ₃ (g)}		
F₃Ru (g) RuF ₃ (g)	Ruthenium(III) Fluoride	F₃Ru (g) RuF ₃ (g)
$\Delta H_{298}^0 = -314.2 \pm 15 \text{ kJ}\cdot\text{mol}^{-1}$ [278]		$S_{298}^0 = [314.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
F₃S (g) SF ₃ (g)	Sulfur(III) Fluoride	F₃S (g) SF ₃ (g)
$\Delta H_{298}^0 = -503 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 286.2 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

F₃Sb (s)	Antimony(III) Fluoride	F₃Sb (s)
SbF ₃ (s)		SbF ₃ (s)

mp = 560 K (287 °C)

 $\Delta H_{298}^0 = -915.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 64.33 + 87.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 560 K) [4] $\lg(p,K) = -5.89 \cdot 10^3 \cdot T^{-1} - 3.62 \cdot \lg(T) + 19.84$ (298 ... 560 K) [4]{Reaction: evaporation as SbF₃(g)}

bp = 618 K (345 °C)

 $S_{298}^0 = 127.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

F₃Sb (s)	Antimony(III) Fluoride	F₃Sb (s)
SbF ₃ (s)		SbF ₃ (s)

 $\Delta H_{560}^0 = -888.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{560}^0 = 190.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Sb (l)	Antimony(III) Fluoride	F₃Sb (l)
SbF ₃ (l)		SbF ₃ (l)

 $\Delta H_{560}^0 = -866.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{560}^0 = 231.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 147.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (560 K) [4]

F₃Sb (g)	Antimony(III) Fluoride	F₃Sb (g)
SbF ₃ (g)		SbF ₃ (g)

 $\Delta H_{298}^0 = -812.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 303 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 79.94 + 2.82 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

F₃Sc (s)	Scandium(III) Fluoride	F₃Sc (s)
ScF ₃ (s)		ScF ₃ (s)

mp = 1825 K (1552 °C)

 $\Delta H_{298}^0 = -1611.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 98.54 + 3.25 \cdot 10^{-3} \cdot T - 1.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1825 K) [4] $\lg(p,K) = -20.01 \cdot 10^3 \cdot T^{-1} - 2.43 \cdot \lg(T) + 17.96$ (1100 ... 1825 K) [4]{Reaction: evaporation as ScF₃(g)}

bp = 2064 K (1791 °C)

 $S_{298}^0 = 97.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

F₃Sc (s) ScF ₃ (s)	Scandium(III) Fluoride	F₃Sc (s) ScF ₃ (s)
$\Delta H_{1825}^0 = -1459.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1825}^0 = 274.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Sc (l) ScF ₃ (l)	Scandium(III) Fluoride	F₃Sc (l) ScF ₃ (l)
$\Delta H_{1825}^0 = -1395.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 88.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1825 K) [4]		$S_{1825}^0 = 309.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Sc (g) ScF ₃ (g)	Scandium(III) Fluoride	F₃Sc (g) ScF ₃ (g)
$\Delta H_{298}^0 = -1235.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 79.21 + 2.54 \cdot 10^{-3} \cdot T - 1.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 304.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
F₃Si (g) SiF ₃ (g)	Trifluorosilyl	F₃Si (g) SiF ₃ (g)
$\Delta H_{298}^0 = -1085.3 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 77.73 + 2.85 \cdot 10^{-3} \cdot T - 1.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 282.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
F₃Sm (s) SmF ₃ (s)	Samarium(III) Fluoride alpha	F₃Sm (s) SmF ₃ (s)
mp = 1572 K (1299 °C) $\Delta H_{298}^0 = -1669 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 106.09 + 2.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 763 K) [4]		bp = 2604 K (2331 °C) $S_{298}^0 = 113.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₃Sm (s) SmF ₃ (s)	Samarium(III) Fluoride alpha	F₃Sm (s) SmF ₃ (s)
$\Delta H_{763}^0 = -1619.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{763}^0 = 214.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Sm (s)	Samarium(III) Fluoride	F₃Sm (s)
SmF ₃ (s)	beta	SmF ₃ (s)

$$\Delta H_{763}^0 = -1617.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{763}^0 = 217.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = -200.68 + 214.39 \cdot 10^{-3} \cdot T + 100.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (763 \dots 1572 \text{ K}) [4]$$

$$\lg(p, K) = -25.06 \cdot 10^3 \cdot T^{-1} - 7.33 \cdot \lg(T) + 35.35 (1200 \dots 1572 \text{ K}) [4]$$

{Reaction: evaporation as SmF₃(g)}

F₃Sm (s)	Samarium(III) Fluoride	F₃Sm (s)
SmF ₃ (s)	beta	SmF ₃ (s)

$$\Delta H_{1572}^0 = -1509.6 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1572}^0 = 311.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Sm (l)	Samarium(III) Fluoride	F₃Sm (l)
SmF ₃ (l)		SmF ₃ (l)

$$\Delta H_{1572}^0 = -1457.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1572}^0 = 344.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 148.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1572 \text{ K}) [4]$$

$$\lg(p, K) = -21.97 \cdot 10^3 \cdot T^{-1} - 6.92 \cdot \lg(T) + 32.08 (1572 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as SmF₃(g)}

F₃Sm (g)	Samarium(III) Fluoride	F₃Sm (g)
SmF ₃ (g)		SmF ₃ (g)

$$\Delta H_{298}^0 = -1238.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 335.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 89.32 + 1.44 \cdot 10^{-3} \cdot T - 1.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Tb (s)	Terbium(III) Fluoride	F₃Tb (s)
TbF ₃ (s)		TbF ₃ (s)

$$\text{mp} = 1450 \text{ K} (1177 \text{ }^\circ\text{C})$$

$$\text{bp} = 2701 \text{ K} (2428 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1707.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 96.61 + 20.64 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1450 \text{ K}) [4]$$

$$\lg(p, K) = -24.26 \cdot 10^3 \cdot T^{-1} - 4.34 \cdot \lg(T) + 24.98 (1200 \dots 1450 \text{ K}) [4]$$

{Reaction: evaporation as TbF₃(g)}

F₃Tb (s) TbF ₃ (s)	Terbium(III) Fluoride	F₃Tb (s) TbF ₃ (s)
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$$\Delta H_{1450}^0 = -1577.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1450}^0 = 289 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Tb (l) TbF ₃ (l)	Terbium(III) Fluoride	F₃Tb (l) TbF ₃ (l)
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$$\Delta H_{1450}^0 = -1525 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1450}^0 = 325.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 151.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1450 \text{ K}) [4]$$

$$\lg(p, K) = -23.47 \cdot 10^3 \cdot T^{-1} - 7.47 \cdot \lg(T) + 34.32 (1450 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as TbF₃(g)}

F₃Tb (g) TbF ₃ (g)	Terbium(III) Fluoride	F₃Tb (g) TbF ₃ (g)
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$$\Delta H_{298}^0 = -1261.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 339.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 80.53 + 5.54 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Th (g) ThF ₃ (g)	Thorium(III) Fluoride	F₃Th (g) ThF ₃ (g)
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$$\text{mp} = 1500 \text{ K} (1227 \text{ }^\circ\text{C})$$

$$\text{bp} = 2550 \text{ K} (2277 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1184.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 339.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82 + 0.72 \cdot 10^{-3} \cdot T - 0.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1943 \text{ K}) [4]$$

F₃Ti (s) TiF ₃ (s)	Titanium(III) Fluoride	F₃Ti (s) TiF ₃ (s)
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$$\text{bp} = 1310 \text{ K} (1037 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1435.5 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 87.9 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 79.08 + 29.29 \cdot 10^{-3} \cdot T + 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1310 \text{ K}) [4]$$

$$\lg(p, K) = -13.88 \cdot 10^3 \cdot T^{-1} - 3.88 \cdot \lg(T) + 22.69 (700 \dots 1310 \text{ K}) [4]$$

{Reaction: evaporation as TiF₃(g)}

F₃Ti (g)	Titanium(III) Fluoride	F₃Ti (g)
TiF ₃ (g)		TiF ₃ (g)

$$\Delta H_{298}^0 = -1188.7 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 291.4 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 86.28 - 0.26 \cdot 10^{-3} \cdot T - 2.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Tm (s)	Thulium(III) Fluoride	F₃Tm (s)
TmF ₃ (s)	alpha	TmF ₃ (s)

$$\text{mp} = 1431 \text{ K} (1158 \text{ }^\circ\text{C}) \qquad \text{bp} = 2585 \text{ K} (2312 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1656 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 115.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 98.95 + 11.48 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1326 \text{ K}) [4]$$

$$\lg(p, K) = -23.24 \cdot 10^3 \cdot T^{-1} - 3.73 \cdot \lg(T) + 22.94 (1200 \dots 1326 \text{ K}) [4]$$

{Reaction: evaporation as TmF₃(g)}

F₃Tm (s)	Thulium(III) Fluoride	F₃Tm (s)
TmF ₃ (s)	alpha	TmF ₃ (s)

$$\Delta H_{1326}^0 = -1546.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1326}^0 = 271.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Tm (s)	Thulium(III) Fluoride	F₃Tm (s)
TmF ₃ (s)	beta	TmF ₃ (s)

$$\Delta H_{1326}^0 = -1516.2 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1326}^0 = 294.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 97.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1326 \text{ K}) [4]$$

$$\lg(p, K) = -20.59 \cdot 10^3 \cdot T^{-1} - 1.87 \cdot \lg(T) + 15.13 (1326 \dots 1431 \text{ K}) [4]$$

{Reaction: evaporation as TmF₃(g)}

F₃Tm (s)	Thulium(III) Fluoride	F₃Tm (s)
TmF ₃ (s)	beta	TmF ₃ (s)

$$\Delta H_{1431}^0 = -1505.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1431}^0 = 301.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Tm (l)	Thulium(III) Fluoride	F₃Tm (l)
TmF ₃ (l)		TmF ₃ (l)

$\Delta H_{1431}^0 = -1477 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1431}^0 = 321.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 140.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1431 K) [4]	
$\lg(p, K) = -22.21 \cdot 10^3 \cdot T^{-1} - 6.92 \cdot \lg(T) + 32.21$ (1431 ... 2000 K) [4]	
{Reaction: evaporation as TmF ₃ (g)}	

F₃Tm (g)	Thulium(III) Fluoride	F₃Tm (g)
TmF ₃ (g)		TmF ₃ (g)

$\Delta H_{298}^0 = -1224.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 339.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 81.25 + 1.11 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₃U (s)	Uranium(III) Fluoride	F₃U (s)
UF ₃ (s)		UF ₃ (s)

mp = 1700 K (1427 °C)	
$\Delta H_{298}^0 = -1502.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 85.98 + 30.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1165 K) [4]	

F₃U (g)	Uranium(III) Fluoride	F₃U (g)
UF ₃ (g)		UF ₃ (g)

$\Delta H_{298}^0 = -1059 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 331.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.68 - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₃V (s)	Vanadium(III) Fluoride	F₃V (s)
VF ₃ (s)		VF ₃ (s)

mp = 1400 K (1127 °C)	bp = 1700 K (1427 °C)
$\Delta H_{298}^0 = -1297 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 97.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 106.85 - 1.11 \cdot 10^{-3} \cdot T - 1.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]	

F₃Y (s) YF ₃ (s)	Yttrium(III) Fluoride alpha	F₃Y (s) YF ₃ (s)
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mp = 1428 K (1155 °C)

bp = 2739 K (2466 °C)

 $\Delta H_{298}^0 = -1718.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 99.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 99.41 + 7.45 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1350 K) [4] $\lg(p,K) = -22.92 \cdot 10^3 \cdot T^{-1} - 2.87 \cdot \lg(T) + 19.6$ (1200 ... 1350 K) [4]{Reaction: evaporation as YF₃(g)}

F₃Y (s) YF ₃ (s)	Yttrium(III) Fluoride alpha	F₃Y (s) YF ₃ (s)
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 $\Delta H_{1350}^0 = -1608.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1350}^0 = 254.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Y (s) YF ₃ (s)	Yttrium(III) Fluoride beta	F₃Y (s) YF ₃ (s)
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 $\Delta H_{1350}^0 = -1576.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1350}^0 = 278.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 122.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1350 K) [4] $\lg(p,K) = -22.19 \cdot 10^3 \cdot T^{-1} - 4.52 \cdot \lg(T) + 24.23$ (1350 ... 1428 K) [4]{Reaction: evaporation as YF₃(g)}

F₃Y (s) YF ₃ (s)	Yttrium(III) Fluoride beta	F₃Y (s) YF ₃ (s)
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 $\Delta H_{1428}^0 = -1566.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1428}^0 = 285.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₃Y (l) YF ₃ (l)	Yttrium(III) Fluoride	F₃Y (l) YF ₃ (l)
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 $\Delta H_{1428}^0 = -1538.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1428}^0 = 304.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 133.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1428 K) [4] $\lg(p,K) = -21.56 \cdot 10^3 \cdot T^{-1} - 5.85 \cdot \lg(T) + 27.98$ (1428 ... 2000 K) [4]{Reaction: evaporation as YF₃(g)}

F₃Y (g)	Yttrium(III) Fluoride	F₃Y (g)
YF ₃ (g)		YF ₃ (g)

$$\Delta H_{298}^0 = -1288.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 311.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 85.52 - 1.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Yb (s)	Ytterbium(III) Fluoride alpha	F₃Yb (s)
YbF ₃ (s)		YbF ₃ (s)

$$\text{mp} = 1435 \text{ K} (1162 \text{ }^\circ\text{C})$$

$$\text{bp} = 2580 \text{ K} (2307 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1569.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 117.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 95.2 + 16.38 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1259 \text{ K}) [4]$$

F₃Yb (s)	Ytterbium(III) Fluoride alpha	F₃Yb (s)
YbF ₃ (s)		YbF ₃ (s)

$$\Delta H_{1259}^0 = -1467.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1259}^0 = 267.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Yb (s)	Ytterbium(III) Fluoride beta	F₃Yb (s)
YbF ₃ (s)		YbF ₃ (s)

$$\Delta H_{1259}^0 = -1442.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1259}^0 = 287 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 119.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1259 \text{ K}) [4]$$

$$\lg(p, K) = -20.54 \cdot 10^3 \cdot T^{-1} - 4.5 \cdot \lg(T) + 23.88 (1259 \dots 1435 \text{ K}) [4]$$

{Reaction: evaporation as YbF₃(g)}

F₃Yb (s)	Ytterbium(III) Fluoride beta	F₃Yb (s)
YbF ₃ (s)		YbF ₃ (s)

$$\Delta H_{1435}^0 = -1421.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1435}^0 = 302.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

F₃Yb (l)	Ytterbium(III) Fluoride	F₃Yb (l)
YbF ₃ (l)		YbF ₃ (l)

$$\Delta H_{1435}^0 = -1387.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1435}^0 = 326.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 121.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1435 \text{ K}) [4]$$

$$\lg(p, K) = -18.84 \cdot 10^3 \cdot T^{-1} - 4.68 \cdot \lg(T) + 23.27 (1435 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as YbF₃(g)}

F₃Yb (g) YbF ₃ (g)	Ytterbium(III) Fluoride	F₃Yb (g) YbF ₃ (g)
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$$\Delta H_{298}^0 = -1173.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 326.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.2 + 1.14 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₃Zr (s) ZrF ₃ (s)	Zirconium(III) Fluoride	F₃Zr (s) ZrF ₃ (s)
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$$\Delta H_{298}^0 = -1441.6 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 87.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 98.76 + 9.72 \cdot 10^{-3} \cdot T - 1.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1463 \text{ K}) [4]$$

F₃Zr (g) ZrF ₃ (g)	Zirconium(III) Fluoride	F₃Zr (g) ZrF ₃ (g)
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$$\Delta H_{298}^0 = -1145.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 305.7 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 80.99 + 4.62 \cdot 10^{-3} \cdot T - 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₄Ge (g) GeF ₄ (g)	Germanium(IV) Fluoride	F₄Ge (g) GeF ₄ (g)
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$$\Delta H_{298}^0 = -1190.1 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 301.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 101.13 + 4.15 \cdot 10^{-3} \cdot T - 1.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₄H₄ (g) H ₄ F ₄ (g)	Hydrogen Fluoride	F₄H₄ (g) H ₄ F ₄ (g)
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$$\Delta H_{298}^0 = -1183.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 349.2 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 106.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₄Hf (s) HfF ₄ (s)	Hafnium(IV) Fluoride	F₄Hf (s) HfF ₄ (s)
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$$\Delta H_{298}^0 = -1930.5 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad \text{bp} = 1235 \text{ K} (962 \text{ }^\circ\text{C})$$

$$C_p^0 = 120.72 + 15.79 \cdot 10^{-3} \cdot T - 2.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1235 \text{ K}) [4]$$

$$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$\lg(p, K) = -14.27 \cdot 10^3 \cdot T^{-1} - 3.33 \cdot \lg(T) + 21.85 (700 \dots 1235 \text{ K}) [4]$$

{Reaction: evaporation as HfF₄(g)}

F₄Hf (g)	Hafnium(IV) Fluoride	F₄Hf (g)
HfF ₄ (g)		HfF ₄ (g)

$$\Delta H_{298}^0 = -1669.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 336.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 104.83 + 2.33 \cdot 10^{-3} \cdot T - 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

F₄Mg₂ (g)	Magnesium(II) Fluoride	F₄Mg₂ (g)
(MgF ₂) ₂ (g)		(MgF ₂) ₂ (g)

$$\Delta H_{298}^0 = -1718.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 337 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 129.24 + 2.35 \cdot 10^{-3} \cdot T - 2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -24.26 \cdot 10^3 \cdot T^{-1} - 6.87 \cdot \lg(T) + 30.23 \text{ (1536 ... 2000 K) [4]}$$

{Reaction: evaporation of MgF₂(l)}

F₄Mo (s)	Molybdenum(IV) Fluoride	F₄Mo (s)
MoF ₄ (s)		MoF ₄ (s)

$$\Delta H_{298}^0 = -1151.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 116.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 129.7 + 12.97 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 600 K) [4]}$$

F₄Mo (g)	Molybdenum(IV) Fluoride	F₄Mo (g)
MoF ₄ (g)		MoF ₄ (g)

$$\Delta H_{298}^0 = -947.7 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 328.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 102.14 + 3.67 \cdot 10^{-3} \cdot T - 1.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2896 K) [4]}$$

F₄MoO (g)	Molybdenum Oxide Fluoride	F₄MoO (g)
MoF ₄ O (g)		MoF ₄ O (g)

$$\Delta H_{298}^0 = -1255.2 \pm 126 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 330.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 96.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

F₄N₂ (g)	Tetrafluorohydrazine	F₄N₂ (g)
N ₂ F ₄ (g)		N ₂ F ₄ (g)

$$\Delta H_{298}^0 = -8.4 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 301.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 79.17 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

F₄Np (s) NpF ₄ (s)	Neptunium(IV) Fluoride	F₄Np (s) NpF ₄ (s)
$\Delta H_{298}^0 = [-1874] \text{ kJ}\cdot\text{mol}^{-1}$ [226]		$S_{298}^0 = [152.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [226]
F₄Np (g) NpF ₄ (g)	Neptunium(IV) Fluoride	F₄Np (g) NpF ₄ (g)
$\Delta H_{298}^0 = -1585.9 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [226]		$S_{298}^0 = 351.8 \pm 12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [226]
F₄OW (s) WOF ₄ (s)	Tungsten Oxide Fluoride	F₄OW (s) WOF ₄ (s)
mp = 379 K (106 °C)		bp = 459 K (186 °C)
$\Delta H_{298}^0 = -1406.9 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 175.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.65 + 167.42 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 379 K) [4]		
$\lg(p, K) = -4.27 \cdot 10^3 \cdot T^{-1} - 4.62 \cdot \lg(T) + 21.75$ (298 ... 379 K) [4]		
{Reaction: evaporation}		
F₄OW (l) WOF ₄ (l)	Tungsten Oxide Fluoride	F₄OW (l) WOF ₄ (l)
$\Delta H_{298}^0 = -1405.3 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 178.9 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₄OW (g) WOF ₄ (g)	Tungsten Oxide Fluoride	F₄OW (g) WOF ₄ (g)
$\Delta H_{298}^0 = -1336.6 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 334.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 125.69 + 4.14 \cdot 10^{-3} \cdot T - 2.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₄Pb (g) PbF ₄ (g)	Lead(IV) Fluoride	F₄Pb (g) PbF ₄ (g)
$\Delta H_{298}^0 = -1133.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 333.6 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 106.41 + 0.87 \cdot 10^{-3} \cdot T - 1.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₄Pu (s) PuF ₄ (s)	Plutonium(IV) Fluoride	F₄Pu (s) PuF ₄ (s)
mp = 1310 K (1037 °C)		bp = 1561 K (1288 °C)
$\Delta H_{298}^0 = -1834.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 147.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 125.57 + 10.69 \cdot 10^{-3} \cdot T - 1.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1310 K) [4]		

F₄Pu (s) PuF ₄ (s)	Plutonium(IV) Fluoride	F₄Pu (s) PuF ₄ (s)
$\Delta H_{1310}^0 = -1701.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1310}^0 = 338 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₄Pu (l) PuF ₄ (l)	Plutonium(IV) Fluoride	F₄Pu (l) PuF ₄ (l)
$\Delta H_{1310}^0 = -1659.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1310}^0 = 370.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 171.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1310 K) [4]		

F₄Ru (g) RuF ₄ (g)	Ruthenium Fluoride	F₄Ru (g) RuF ₄ (g)
$\Delta H_{298}^0 = -595 \pm 15 \text{ kJ}\cdot\text{mol}^{-1}$ [278]		$S_{298}^0 = [333.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]

F₄S (g) SF ₄ (g)	Sulfur(IV) Fluoride	F₄S (g) SF ₄ (g)
mp = 149 K (-124 °C)		bp = 233 K (-40 °C)
$\Delta H_{298}^0 = -763.2 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 299.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.03 + 3.33 \cdot 10^{-3} \cdot T - 2.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₄Se (l) SeF ₄ (l)	Selenium(IV) Fluoride	F₄Se (l) SeF ₄ (l)
mp = 264 K (-9 °C)		bp = 381 K (108 °C)
$\Delta H_{298}^0 = -856.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 176 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

F₄Se (l) SeF ₄ (l)	Selenium(IV) Fluoride	F₄Se (l) SeF ₄ (l)
$\Delta H_{381}^0 = -843.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{381}^0 = 214.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₄Se (g) SeF ₄ (g)	Selenium(IV) Fluoride	F₄Se (g) SeF ₄ (g)
$\Delta H_{381}^0 = -805.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{381}^0 = 315.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 101.04 + 3.69 \cdot 10^{-3} \cdot T - 2.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (381 ... 2000 K) [4]		
F₄Se (g) SeF ₄ (g)	Selenium(IV) Fluoride	F₄Se (g) SeF ₄ (g)
$\Delta H_{298}^0 = -811.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 296.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 101.04 + 3.69 \cdot 10^{-3} \cdot T - 2.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₄Si (g) SiF ₄ (g)	Tetrafluorosilane	F₄Si (g) SiF ₄ (g)
		bp = 178 K (-95 °C)
$\Delta H_{298}^0 = -1614.9 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 282.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 99.39 + 4.51 \cdot 10^{-3} \cdot T - 2.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₄Te (s) TeF ₄ (s)	Tellurium(IV) Fluoride	F₄Te (s) TeF ₄ (s)
mp = 403 K (130 °C)		bp = 646 K (373 °C)
$\Delta H_{298}^0 = -1011.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
F₄Te (g) TeF ₄ (g)	Tellurium(IV) Fluoride	F₄Te (g) TeF ₄ (g)
$\Delta H_{298}^0 = -948.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 324.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 104.14 + 2.08 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₄Th (s)	Thorium(IV) Fluoride	F₄Th (s)
ThF ₄ (s)		ThF ₄ (s)
mp = 1383 K (1110 °C)		bp = 1943 K (1670 °C)
$\Delta H_{298}^0 = -2098 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 142 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 122.17 + 8.37 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1383 K) [4]		
$\lg(p,K) = -17.77 \cdot 10^3 \cdot T^{-1} - 2.95 \cdot \lg(T) + 19.31$ (1000 ... 1383 K) [4]		
{Reaction: evaporation as ThF ₄ (g)}		

F₄Th (s)	Thorium(IV) Fluoride	F₄Th (s)
ThF ₄ (s)		ThF ₄ (s)
$\Delta H_{1383}^0 = -1961.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1383}^0 = 331.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₄Th (l)	Thorium(IV) Fluoride	F₄Th (l)
ThF ₄ (l)		ThF ₄ (l)
$\Delta H_{1383}^0 = -1919.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1383}^0 = 362.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1383 K) [4]		
$\lg(p,K) = -15.7 \cdot 10^3 \cdot T^{-1} - 3.15 \cdot \lg(T) + 18.44$ (1383 ... 1943 K) [4]		
{Reaction: evaporation as ThF ₄ (g)}		

F₄Th (g)	Thorium(IV) Fluoride	F₄Th (g)
ThF ₄ (g)		ThF ₄ (g)
$\Delta H_{298}^0 = -1768 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 341.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 106.06 + 1.26 \cdot 10^{-3} \cdot T - 1.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1943 K) [4]		

F₄Ti (s)	Titanium(IV) Fluoride	F₄Ti (s)
TiF ₄ (s)		TiF ₄ (s)
		bp = 558 K (285 °C)
$\Delta H_{298}^0 = -1649.3 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 123.31 + 36.24 \cdot 10^{-3} \cdot T - 1.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 558 K) [4]		
$\lg(p,K) = -5.56 \cdot 10^3 \cdot T^{-1} - 3.6 \cdot \lg(T) + 19.86$ (298 ... 558 K) [4]		
{Reaction: evaporation as TiF ₄ (g)}		

F₄Ti (g)	Titanium(IV) Fluoride	F₄Ti (g)
TiF ₄ (g)		TiF ₄ (g)

$\Delta H_{298}^0 = -1551.4 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 314.9 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 104.25 + 1.98 \cdot 10^{-3} \cdot T - 1.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₄U (s)	Uranium(IV) Fluoride	F₄U (s)
UF ₄ (s)		UF ₄ (s)

mp = 1309 K (1036 °C)	bp = 1737 K (1464 °C)
$\Delta H_{298}^0 = -1914.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 151.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.56 + 9.62 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1309 K) [4]	
$\lg(p, K) = -16.99 \cdot 10^3 \cdot T^{-1} - 3.24 \cdot \lg(T) + 20.98$ (900 ... 1309 K) [4]	
{Reaction: evaporation as UF ₄ (g)}	

F₄U (s)	Uranium(IV) Fluoride	F₄U (s)
UF ₄ (s)		UF ₄ (s)

$\Delta H_{1309}^0 = -1783.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1309}^0 = 339.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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F₄U (l)	Uranium(IV) Fluoride	F₄U (l)
UF ₄ (l)		UF ₄ (l)

$\Delta H_{1309}^0 = -1718.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1309}^0 = 389.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 165.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1309 K) [4]	
$\lg(p, K) = -15.63 \cdot 10^3 \cdot T^{-1} - 6.91 \cdot \lg(T) + 31.39$ (1309 ... 1737 K) [4]	
{Reaction: evaporation as UF ₄ (g)}	

F₄U (g)	Uranium(IV) Fluoride	F₄U (g)
UF ₄ (g)		UF ₄ (g)

$\Delta H_{298}^0 = -1598.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 369.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 104.53 + 2.71 \cdot 10^{-3} \cdot T - 1.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

F₄V (s)	Vanadium(IV) Fluoride	F₄V (s)
VF ₄ (s)		VF ₄ (s)

$$\Delta H_{298}^0 = -1403.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 95.19 + 39.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 600 \text{ K}) [4]$$

F₄Xe (g)	Xenon(IV) Fluoride	F₄Xe (g)
XeF ₄ (g)		XeF ₄ (g)

$$\Delta H_{298}^0 = -215 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 316 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

F₄Zr (s)	Zirconium(IV) Fluoride	F₄Zr (s)
ZrF ₄ (s)		ZrF ₄ (s)

$$\text{bp} = 1178 \text{ K} (905 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1911.3 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 104.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 117.4 + 16.74 \cdot 10^{-3} \cdot T - 1.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1178 \text{ K}) [4]$$

$$\lg(p, K) = -12.98 \cdot 10^3 \cdot T^{-1} - 3.1 \cdot \lg(T) + 20.54 (700 \dots 1178 \text{ K}) [4]$$

{Reaction: evaporation as ZrF₄(g)}

F₄Zr (g)	Zirconium(IV) Fluoride	F₄Zr (g)
ZrF ₄ (g)		ZrF ₄ (g)

$$\Delta H_{298}^0 = -1673.6 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 319.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 104.27 + 2.23 \cdot 10^{-3} \cdot T - 1.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F_{4.25}U (s)	Uranium Fluoride	F_{4.25}U (s)
UF _{4.25} (s)		UF _{4.25} (s)

$$\Delta H_{298}^0 = -1962.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 157.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 113.39 + 29.62 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 703 \text{ K}) [4]$$

F_{4.5}U (s)	Uranium Fluoride	F_{4.5}U (s)
UF _{4.5} (s)		UF _{4.5} (s)

$$\Delta H_{298}^0 = -2079 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 164.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 117.99 + 29.96 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 663 \text{ K}) [4]$$

F₅H₅ (g) H ₅ F ₅ (g)	Hydrogen Fluoride	F₅H₅ (g) H ₅ F ₅ (g)
$\Delta H_{298}^0 = -1489.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 408.4 \pm 20.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 137.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₅I (g) IF ₅ (g)	Iodine(V) Fluoride	F₅I (g) IF ₅ (g)
$\Delta H_{298}^0 = -840.3 \pm 1.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 334.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₅Mo (s) MoF ₅ (s)	Molybdenum(V) Fluoride	F₅Mo (s) MoF ₅ (s)
mp = 319 K (46 °C)		bp = 548 K (275 °C)
$\Delta H_{298}^0 = -1388.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 178.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 25.77 + 415.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 319 K) [4]		
F₅Mo (s) MoF ₅ (s)	Molybdenum(V) Fluoride	F₅Mo (s) MoF ₅ (s)
$\Delta H_{319}^0 = -1385 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{319}^0 = 189.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₅Mo (l) MoF ₅ (l)	Molybdenum(V) Fluoride	F₅Mo (l) MoF ₅ (l)
$\Delta H_{319}^0 = -1379 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{319}^0 = 208.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 155.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (319 K) [4]		
F₅Mo (g) MoF ₅ (g)	Molybdenum(V) Fluoride	F₅Mo (g) MoF ₅ (g)
$\Delta H_{298}^0 = -1241.4 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 347.7 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.86 + 1.54 \cdot 10^{-3} \cdot T - 2.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -7.78 \cdot 10^3 \cdot T^{-1} - 3.92 \cdot \lg(T) + 19$ (319 ... 548 K) [4]		
{Reaction: evaporation of MoF ₅ (l)}		

F₅Nb (s) NbF ₅ (s)	Niobium(V) Fluoride	F₅Nb (s) NbF ₅ (s)
mp = 351 K (78 °C)		bp = 511 K (238 °C)
$\Delta H_{298}^0 = -1813.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 160.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 149.4 + 0.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 351 K) [4]		
$\lg(p, K) = -4.41 \cdot 10^3 \cdot T^{-1} - 5.67 \cdot \lg(T) + 24.51$ (298 ... 351 K) [4]		
{Reaction: evaporation as NbF ₅ (g)}		
F₅Nb (s) NbF ₅ (s)	Niobium(V) Fluoride	F₅Nb (s) NbF ₅ (s)
$\Delta H_{351}^0 = -1805.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{351}^0 = 184.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₅Nb (l) NbF ₅ (l)	Niobium(V) Fluoride	F₅Nb (l) NbF ₅ (l)
$\Delta H_{351}^0 = -1793.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{351}^0 = 219.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.44 + 113.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (351 ... 511 K) [4]		
F₅Nb (g) NbF ₅ (g)	Niobium(V) Fluoride	F₅Nb (g) NbF ₅ (g)
$\Delta H_{298}^0 = -1743.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 313.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.96 + 4.82 \cdot 10^{-3} \cdot T - 2.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₅P (g) PF ₅ (g)	Phosphorus(V) Fluoride	F₅P (g) PF ₅ (g)
mp = 190 K (-83 °C)		bp = 198 K (-75 °C)
$\Delta H_{298}^0 = -1594.4 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 300.8 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 122.51 + 5.52 \cdot 10^{-3} \cdot T - 3.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₅Ru (s)	Ruthenium(V) Fluoride	F₅Ru (s)
RuF ₅ (s)		RuF ₅ (s)

mp = 358 K (85 °C)

bp = 545 K (272 °C)

 $\Delta H^0_{298} = -892.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S^0_{298} = 161.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4] $\lg(\rho, K) = -5.38 \cdot 10^3 \cdot T^{-1} - 7.28 \cdot \lg(T) + 30.77$ (298 ... 358 K) [4]{Reaction: evaporation as RuF₅(g)}

F₅Ru (s)	Ruthenium(V) Fluoride	F₅Ru (s)
RuF ₅ (s)		RuF ₅ (s)

 $\Delta H^0_{358} = -883.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{358} = 190.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₅Ru (l)	Ruthenium(V) Fluoride	F₅Ru (l)
RuF ₅ (l)		RuF ₅ (l)

 $\Delta H^0_{358} = -864.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{358} = 243.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (358 K) [4]

F₅Ru (g)	Ruthenium(V) Fluoride	F₅Ru (g)
RuF ₅ (g)		RuF ₅ (g)

 $\Delta H^0_{298} = -807.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S^0_{298} = 344.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 130.96 - 2.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]

F₅S (g)	Sulfur(V) Fluoride	F₅S (g)
SF ₅ (g)		SF ₅ (g)

 $\Delta H^0_{298} = -908.5 \pm 15.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S^0_{298} = 304.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 126.19 + 3.18 \cdot 10^{-3} \cdot T - 3.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]

F₅Se (g)	Selenium(V) Fluoride	F₅Se (g)
SeF ₅ (g)		SeF ₅ (g)

 $\Delta H^0_{298} = -940.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S^0_{298} = 322.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 127.67 + 2.81 \cdot 10^{-3} \cdot T - 2.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

F₅Ta (s)	Tantalum(V) Fluoride	F₅Ta (s)
TaF ₅ (s)		TaF ₅ (s)
mp = 369 K (96 °C)		bp = 501 K (228 °C)
$\Delta H_{298}^0 = -1903.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 169.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -4.31 \cdot 10^3 \cdot T^{-1} - 3.1 \cdot \lg(T) + 17.57$ (298 ... 369 K) [4]		
{Reaction: evaporation as TaF ₅ (g)}		

F₅Ta (s)	Tantalum(V) Fluoride	F₅Ta (s)
TaF ₅ (s)		TaF ₅ (s)
$\Delta H_{369}^0 = -1894.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{369}^0 = 198.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₅Ta (l)	Tantalum(V) Fluoride	F₅Ta (l)
TaF ₅ (l)		TaF ₅ (l)
$\Delta H_{369}^0 = -1880.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{369}^0 = 235.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 177.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (369 K) [4]		
$\lg(p,K) = -4.26 \cdot 10^3 \cdot T^{-1} - 7.3 \cdot \lg(T) + 28.22$ (369 ... 501 K) [4]		
{Reaction: evaporation as TaF ₅ (g)}		

F₅Ta (g)	Tantalum(V) Fluoride	F₅Ta (g)
TaF ₅ (g)		TaF ₅ (g)
$\Delta H_{298}^0 = -1828.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 333.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 130.67 + 1.09 \cdot 10^{-3} \cdot T - 2.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₅Te (g)	Tellurium(V) Fluoride	F₅Te (g)
TeF ₅ (g)		TeF ₅ (g)
$\Delta H_{298}^0 = -1159.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 340.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 128.32 + 2.47 \cdot 10^{-3} \cdot T - 2.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₅U (s)	Uranium(V) Fluoride	F₅U (s)
UF ₅ (s)		UF ₅ (s)
mp = 621 K (348 °C)		bp = 846 K (573 °C)
$\Delta H_{298}^0 = -2083.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 179.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 125.52 + 30.21 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 621 K) [4]		
$\lg(p,K) = -8.1 \cdot 10^3 \cdot T^{-1} - 2.15 \cdot \lg(T) + 16.96$ (400 ... 621 K) [4]		
{Reaction: evaporation as UF ₅ (g)}		

F₅U (s)	Uranium(V) Fluoride	F₅U (s)
UF ₅ (s)		UF ₅ (s)
$\Delta H_{621}^0 = -2038.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{621}^0 = 280.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₅U (l)	Uranium(V) Fluoride	F₅U (l)
UF ₅ (l)		UF ₅ (l)
$\Delta H_{621}^0 = -1991.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{621}^0 = 356 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 166.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (621 K) [4]		
$\lg(p,K) = -6.35 \cdot 10^3 \cdot T^{-1} - 4.74 \cdot \lg(T) + 21.38$ (621 ... 846 K) [4]		
{Reaction: evaporation as UF ₅ (g)}		

F₅U (g)	Uranium(V) Fluoride	F₅U (g)
UF ₅ (g)		UF ₅ (g)
$\Delta H_{298}^0 = -1933.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 384.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 127.87 + 3.77 \cdot 10^{-3} \cdot T - 1.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₅V (g)	Vanadium(V) Fluoride	F₅V (g)
VF ₅ (g)		VF ₅ (g)
		bp = 321 K (48 °C)
$\Delta H_{298}^0 = -1433.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 320.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.96 + 4.84 \cdot 10^{-3} \cdot T - 2.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₆H₆ (g)	Hydrogen Fluoride	F₆H₆ (g)
H ₆ F ₆ (g)		H ₆ F ₆ (g)

$$\Delta H_{298}^0 = -1807.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 466.4 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 168.06 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

F₆Ir (g)	Iridium(VI) Fluoride	F₆Ir (g)
IrF ₆ (g)		IrF ₆ (g)

$$\text{bp} = 326 \text{ K} (53 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -543.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 345.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 149.93 + 5.1 \cdot 10^{-3} \cdot T - 2.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₆KU (s)	Potassium Uranium Fluoride	F₆KU (s)
KUF ₆ (s)		KUF ₆ (s)

$$\Delta H_{298}^0 = -2730.9 \pm 3 \text{ kJ}\cdot\text{mol}^{-1} [245]$$

$$S_{298}^0 = [246] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [248, 8]$$

$$C_p^0 = [181.33] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

F₆K₂Si (s)	Potassium Silicon Fluoride	F₆K₂Si (s)
K ₂ SiF ₆ (s)		K ₂ SiF ₆ (s)

$$\Delta H_{298}^0 = -2956 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 226 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

F₆Mo (l)	Molybdenum(VI) Fluoride	F₆Mo (l)
MoF ₆ (l)		MoF ₆ (l)

$$\text{mp} = 291 \text{ K} (18 \text{ }^\circ\text{C})$$

$$\text{bp} = 307 \text{ K} (34 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1585.7 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 259.7 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 117.93 + 173.97 \cdot 10^{-3} \cdot T - 5.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 307 \text{ K}) [4]$$

F₆Mo (g)	Molybdenum(VI) Fluoride	F₆Mo (g)
MoF ₆ (g)		MoF ₆ (g)

$$\Delta H_{298}^0 = -1557.7 \pm 0.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 350.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 149.57 + 5.19 \cdot 10^{-3} \cdot T - 2.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

F₆NaU (s) NaUF ₆ (s)	Sodium Uranium Fluoride	F₆NaU (s) NaUF ₆ (s)
$\Delta H_{298}^0 = -2708 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [245]		$S_{298}^0 = [230.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [247, 8]
$C_p^0 = [179.18] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
F₆Np (s) NpF ₆ (s)	Neptunium(VI) Fluoride	F₆Np (s) NpF ₆ (s)
$\Delta H_{298}^0 = -1985.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 229.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
F₆Np (g) NpF ₆ (g)	Neptunium(VI) Fluoride	F₆Np (g) NpF ₆ (g)
$\Delta H_{298}^0 = -1937.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 376.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 129.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
F₆OSi₂ (g) Si ₂ OF ₆ (g)	Silicon Oxide Fluoride	F₆OSi₂ (g) Si ₂ OF ₆ (g)
$\Delta H_{298}^0 = -2892 \text{ kJ}\cdot\text{mol}^{-1}$ [117]		$S_{298}^0 = 397.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [117]
F₆Pt (s) PtF ₆ (s)	Platinum(VI) Fluoride	F₆Pt (s) PtF ₆ (s)
$\Delta H_{298}^0 = -714 \pm 28 \text{ kJ}\cdot\text{mol}^{-1}$ [115]		
F₆Pt (g) PtF ₆ (g)	Platinum(VI) Fluoride	F₆Pt (g) PtF ₆ (g)
$\Delta H_{298}^0 = -676 \pm 28 \text{ kJ}\cdot\text{mol}^{-1}$ [115]		$S_{298}^0 = [341.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [116]

F₆Pu (s)	Plutonium(VI) Fluoride	F₆Pu (s)
PuF ₆ (s)		PuF ₆ (s)
mp = 325 K (52 °C)		bp = 335 K (62 °C)
$\Delta H_{298}^0 = -1799.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 221.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 88.32 + 265.12 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 325 K) [4]		

F₆Pu (s)	Plutonium(VI) Fluoride	F₆Pu (s)
PuF ₆ (s)		PuF ₆ (s)
$\Delta H_{325}^0 = -1794.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{325}^0 = 236.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

F₆Pu (l)	Plutonium(VI) Fluoride	F₆Pu (l)
PuF ₆ (l)		PuF ₆ (l)
$\Delta H_{325}^0 = -1775.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{325}^0 = 293.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (325 K) [4]		

F₆Pu (g)	Plutonium(VI) Fluoride	F₆Pu (g)
PuF ₆ (g)		PuF ₆ (g)
$\Delta H_{298}^0 = -1750.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 369.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 153.44 + 2.81 \cdot 10^{-3} \cdot T - 2.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₆RbU (s)	Rubidium Uranium Fluoride	F₆RbU (s)
RbUF ₆ (s)		RbUF ₆ (s)
$\Delta H_{298}^0 = -2740.5 \pm 6 \text{ kJ}\cdot\text{mol}^{-1}$ [245]		$S_{298}^0 = [257.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [249, 8]
$C_p^0 = [182.71] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

F₆Re (l)	Rhenium(VI) Fluoride	F₆Re (l)
ReF ₆ (l)		ReF ₆ (l)
mp = 292 K (19 °C)		bp = 307 K (34 °C)
$\Delta H_{298}^0 = -1163.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 269.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 175.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

F₆Re (l) ReF ₆ (l)	Rhenium(VI) Fluoride	F₆Re (l) ReF ₆ (l)
$\Delta H_{307}^0 = -1161.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{307}^0 = 274.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
F₆Re (g) ReF ₆ (g)	Rhenium(VI) Fluoride	F₆Re (g) ReF ₆ (g)
$\Delta H_{307}^0 = -1133.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{307}^0 = 367.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 155.65 + 1.3 \cdot 10^{-3} \cdot T - 3.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (307 ... 2000 K) [4]		
F₆S (l) SF ₆ (l)	Sulfur(VI) Fluoride	F₆S (l) SF ₆ (l)
mp = 223 K (-50 °C)		bp = 209 K (-64 °C)
$\Delta H_{298}^0 = -1237.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 206.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
F₆S (g) SF ₆ (g)	Sulfur(VI) Fluoride	F₆S (g) SF ₆ (g)
$\Delta H_{298}^0 = -1220.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 291.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 146.69 + 5.89 \cdot 10^{-3} \cdot T - 4.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₆Se (g) SeF ₆ (g)	Selenium(VI) Fluoride	F₆Se (g) SeF ₆ (g)
mp = 238 K (-35 °C)		bp = 227 K (-46 °C)
$\Delta H_{298}^0 = -1116.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 313.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 151.14 + 3.59 \cdot 10^{-3} \cdot T - 3.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₆Te (g) TeF ₆ (g)	Tellurium(VI) Fluoride	F₆Te (g) TeF ₆ (g)
mp = 235 K (-38 °C)		bp = 234 K (-39 °C)
$\Delta H_{298}^0 = -1369 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 336 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 152.08 + 3.1 \cdot 10^{-3} \cdot T - 3.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

F₆U (s) UF ₆ (s)	Uranium(VI) Fluoride	F₆U (s) UF ₆ (s)
mp = 337 K (64 °C)		bp = 329 K (56 °C)
$\Delta H_{298}^0 = -2197 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 227.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 52.72 + 384.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 329 K) [4]		
F₆U (g) UF ₆ (g)	Uranium(VI) Fluoride	F₆U (g) UF ₆ (g)
$\Delta H_{298}^0 = -2147.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 377.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 153.11 + 3.01 \cdot 10^{-3} \cdot T - 2.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₆W (l) WF ₆ (l)	Tungsten(VI) Fluoride	F₆W (l) WF ₆ (l)
mp = 275 K (2 °C)		bp = 290 K (17 °C)
$\Delta H_{298}^0 = -1748.4 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 249.2 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 169.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₆W (g) WF ₆ (g)	Tungsten(VI) Fluoride	F₆W (g) WF ₆ (g)
$\Delta H_{298}^0 = -1721.7 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 341.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 152.65 + 2.75 \cdot 10^{-3} \cdot T - 3.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
F₇H₇ (g) H ₇ F ₇ (g)	Hydrogen Fluoride	F₇H₇ (g) H ₇ F ₇ (g)
$\Delta H_{298}^0 = -2102.5 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 523.4 \pm 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 198.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
F₇I (g) IF ₇ (g)	Iodine(VII) Fluoride	F₇I (g) IF ₇ (g)
$\Delta H_{298}^0 = -961.1 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 347.7 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 134.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

F₁₀Mo₂ (g)	Molybdenum(V) Fluoride	F₁₀Mo₂ (g)
(MoF ₅) ₂ (g)		(MoF ₅) ₂ (g)

$$\Delta H_{298}^0 = -2697.8 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 531.6 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 272.81 + 5.22 \cdot 10^{-3} \cdot T - 5.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -4.68 \cdot 10^3 \cdot T^{-1} - 8.97 \cdot \lg(T) + 33.1 (319 \dots 548 \text{ K}) [4]$$

{Reaction: evaporation of MoF₅(l)}

F₁₀S₂ (g)	Sulfur(V) Fluoride	F₁₀S₂ (g)
S ₂ F ₁₀ (g)		S ₂ F ₁₀ (g)

$$\text{mp} = 181 \text{ K} (-92 \text{ }^\circ\text{C})$$

$$\text{bp} = 302 \text{ K} (29 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2064.4 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 396.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 267.06 + 7.74 \cdot 10^{-3} \cdot T + 8.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

F₁₀Te₂ (l)	Tellurium(V) Fluoride	F₁₀Te₂ (l)
Te ₂ F ₁₀ (l)		Te ₂ F ₁₀ (l)

$$\text{mp} = 240 \text{ K} (-33 \text{ }^\circ\text{C})$$

$$\text{bp} = 326 \text{ K} (53 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2499.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 323.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 267.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

F₁₀Te₂ (g)	Tellurium(V) Fluoride	F₁₀Te₂ (g)
Te ₂ F ₁₀ (g)		Te ₂ F ₁₀ (g)

$$\Delta H_{298}^0 = -2460.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 443.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 272.44 + 5.35 \cdot 10^{-3} \cdot T - 6.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

F₁₅Mo₃ (g)	Molybdenum(V) Fluoride	F₁₅Mo₃ (g)
(MoF ₅) ₃ (g)		(MoF ₅) ₃ (g)

$$\Delta H_{298}^0 = -4065.6 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 706.8 \pm 29.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 417.53 + 7.82 \cdot 10^{-3} \cdot T - 8.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -5.79 \cdot 10^3 \cdot T^{-1} - 12.49 \cdot \lg(T) + 42.11 (319 \dots 548 \text{ K}) [4]$$

{Reaction: evaporation of MoF₅(l)}

Fe_{0.877}S (s)	Iron Sulfide alpha	Fe_{0.877}S (s)
$\Delta H_{298}^0 = -105.4 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 60.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.71 + 110.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 411 K) [3]		
Fe_{0.947}O (s)	Iron Oxide	Fe_{0.947}O (s)
$\Delta H_{298}^0 = -266.3 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 57.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.79 + 8.37 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... mp K) [3]		
Fe (s)	Iron alpha	Fe (s)
mp = 1809 K (1536 °C)		bp = 3158 K (2885 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 27.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 14.95 + 28.08 \cdot 10^{-3} \cdot T + 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
Fe (s)	Iron alpha	Fe (s)
$\Delta H_{1184}^0 = 33.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1184}^0 = 75.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 50.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1184 K) [4]		
Fe (s)	Iron gamma	Fe (s)
$\Delta H_{1184}^0 = 34.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1184}^0 = 75.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 23.99 + 8.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1184 ... 1665 K) [4]		
$\lg(p, K) = -21.78 \cdot 10^3 \cdot T^{-1} - 1.72 \cdot \lg(T) + 13.18$ (1300 ... 1665 K) [4]		
{Reaction: evaporation as Fe(g)}		
Fe (s)	Iron gamma	Fe (s)
$\Delta H_{1665}^0 = 51.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1665}^0 = 88.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1665 K) [4]		

Fe (s)	Iron delta	Fe (s)
$\Delta H_{1665}^0 = 52.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1665}^0 = 88.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 24.64 + 9.9 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1665 ... 1809 K) [4]		
$\lg(p,K) = -22.24 \cdot 10^3 \cdot T^{-1} - 2.43 \cdot \lg(T) + 15.75$ (1665 ... 1809 K) [4]		
{Reaction: evaporation as Fe(g)}		
Fe (s)	Iron delta	Fe (s)
$\Delta H_{1809}^0 = 58.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1809}^0 = 92.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1809 K) [4]		
Fe (l)	Iron	Fe (l)
$\Delta H_{1809}^0 = 72.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1809}^0 = 99.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1809 K) [4]		
$\lg(p,K) = -21.91 \cdot 10^3 \cdot T^{-1} - 2.94 \cdot \lg(T) + 17.23$ (1809 ... 3158 K) [4]		
{Reaction: evaporation as Fe(g)}		
Fe (g)	Iron	Fe (g)
$\Delta H_{298}^0 = 413.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 180.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 28.27 - 5.78 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} + 1.18 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3158 K) [4]		
FeHO₂ (s) FeO(OH) (s)	Iron Oxide Hydroxide Goethite	FeHO₂ (s) FeO(OH) (s)
$\Delta H_{298}^0 = -558.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 60.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.37 + 83.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 400 K) [4]		
FeH₂O₂ (s) Fe(OH) ₂ (s)	Iron(II) Hydroxide	FeH₂O₂ (s) Fe(OH) ₂ (s)
		bp = 1358 K (1085 °C)
$\Delta H_{298}^0 = -574 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 87.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 116.06 + 8.65 \cdot 10^{-3} \cdot T - 2.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1358 K) [4]		

FeH₂O₂ (g)	Iron(II) Hydroxide	FeH₂O₂ (g)
Fe(OH) ₂ (g)		Fe(OH) ₂ (g)

$\Delta H_{298}^0 = -330.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 283.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 91.04 + 8.7 \cdot 10^{-3} \cdot T - 2.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

FeH₃O₃ (s)	Iron(III) Hydroxide	FeH₃O₃ (s)
Fe(OH) ₃ (s)		Fe(OH) ₃ (s)

$\Delta H_{298}^0 = -832.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 104.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 127.61 + 41.64 \cdot 10^{-3} \cdot T - 4.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]	

FeI₂ (s)	Iron(II) Iodide alpha	FeI₂ (s)
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mp = 860 K (587 °C)	bp = 1334 K (1061 °C)
$\Delta H_{298}^0 = -104.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 167.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.25 + 3.63 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 650 K) [4]	

FeI₂ (s)	Iron(II) Iodide alpha	FeI₂ (s)
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$\Delta H_{650}^0 = -75 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{650}^0 = 232.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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FeI₂ (s)	Iron(II) Iodide beta	FeI₂ (s)
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$\Delta H_{650}^0 = -74.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{650}^0 = 234.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -17.5 + 160.09 \cdot 10^{-3} \cdot T + 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (650 ... 860 K) [4]	

FeI₂ (s)	Iron(II) Iodide beta	FeI₂ (s)
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$\Delta H_{860}^0 = -52.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{860}^0 = 263.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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FeI₂ (l)	Iron(II) Iodide	FeI₂ (l)
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$$\Delta H_{860}^0 = -7.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (860 K) [4]}$$

$$S_{860}^0 = 315.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

FeI₂ (l)	Iron(II) Iodide	FeI₂ (l)
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$$\Delta H_{298}^0 = -71 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$C_p^0 = 112.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

$$S_{298}^0 = 195.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

FeI₂ (g)	Iron(II) Iodide	FeI₂ (g)
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$$\Delta H_{298}^0 = 85.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 60.24 + 3 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -10.93 \cdot 10^3 \cdot T^{-1} - 5.01 \cdot \lg(T) + 24.85 \text{ (650 ... 860 K) [4]}$$

{Reaction: evaporation of FeI₂(s)}

$$S_{298}^0 = 349.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

FeI₃Na (g)	Sodium Iron Iodide	FeI₃Na (g)
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NaFeI₃ (g)

NaFeI₃ (g)

$$\Delta H_{298}^0 = -183.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [159, 8]}$$

$$S_{298}^0 = 455.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [159, 8]}$$

FeI₄Na₂ (g)	Sodium Iron Iodide	FeI₄Na₂ (g)
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Na₂FeI₄ (g)

Na₂FeI₄ (g)

$$\Delta H_{298}^0 = -416.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [159, 8]}$$

$$S_{298}^0 = 573.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [159, 8]}$$

FeLiO₂ (s)	Lithium Ferrate(III)	FeLiO₂ (s)
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LiFeO₂ (s)

LiFeO₂ (s)

$$\Delta H_{298}^0 = -750.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

$$S_{298}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

FeMoO₄ (s) FeO · MoO ₃ (s)	Iron(II) Molybdate(VI)	FeMoO₄ (s) FeO · MoO ₃ (s)
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$$\Delta H_{298}^0 = -1065.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 129.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 125.52 + 33.47 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1341 \text{ K}) [4]$$

FeNaO₂ (s) NaFeO ₂ (s)	Sodium Ferrate(III)	FeNaO₂ (s) NaFeO ₂ (s)
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$$\Delta H_{298}^0 = -698.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 88.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 84.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

FeO (s)	Iron(II) Oxide Wüstite	FeO (s)
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$$\Delta H_{298}^0 = -266 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 59.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 48.79 + 8.37 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1645 \text{ K}) [4]$$

FeO (l)	Iron(II) Oxide	FeO (l)
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$$\Delta H_{298}^0 = -249.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 75.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 48.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FeO (g)	Iron(II) Oxide	FeO (g)
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$$\Delta H_{298}^0 = 251 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 241.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 31.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

FeO₃Si (s) FeO · SiO ₂ (s)	Iron Silicate	FeO₃Si (s) FeO · SiO ₂ (s)
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$$\Delta H_{298}^0 = -1195 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 93.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 89.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

FeO₃Ti (s) FeO · TiO ₂ (s)	Iron Titanate Ilmenite	FeO₃Ti (s) FeO · TiO ₂ (s)
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mp = 1673 K (1400 °C)

$$\Delta H_{298}^0 = -1239.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 105.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 116.61 + 18.24 \cdot 10^{-3} \cdot T - 2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1673 \text{ K}) [4]$$

FeO₃Ti (s) FeO · TiO ₂ (s)	Iron Titanate	FeO₃Ti (s) FeO · TiO ₂ (s)
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$$\Delta H_{1673}^0 = -1059.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1673}^0 = 321.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

FeO₃Ti (l) FeO · TiO ₂ (l)	Iron Titanate	FeO₃Ti (l) FeO · TiO ₂ (l)
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$$\Delta H_{1673}^0 = -968.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1673}^0 = 375.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 199.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1673 \text{ K}) [4]$$

FeO₄S (s) FeSO ₄ (s)	Iron(II) Sulfate	FeO₄S (s) FeSO ₄ (s)
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$$\Delta H_{298}^0 = -928.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 121 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 122 + 37.82 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 944 \text{ K}) [4]$$

FeO₄V₂ (s) FeO · V ₂ O ₃ (s)	Iron(II) Vanadate(III)	FeO₄V₂ (s) FeO · V ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -1506 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 152.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

FeO₄W (s) FeO · WO ₃ (s)	Iron(II) Tungstate(VI)	FeO₄W (s) FeO · WO ₃ (s)
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mp = 1262 K (989 °C)

$$\Delta H_{298}^0 = -1184.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 131.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 132.42 + 29.75 \cdot 10^{-3} \cdot T - 2.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1262 \text{ K}) [4]$$

FeO₆V₂ (s) FeO · V ₂ O ₅ (s)	Iron(II) Vanadate(V)	FeO₆V₂ (s) FeO · V ₂ O ₅ (s)
$\Delta H_{298}^0 = -1900.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 196.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
FeS (s)	Iron(II) Sulfide alpha	FeS (s)
mp = 1461 K (1188 °C) $\Delta H_{298}^0 = -101.7 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = -0.5 + 170.71 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 411 K) [4]		$S_{298}^0 = 60.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FeS (s)	Iron(II) Sulfide alpha	FeS (s)
$\Delta H_{411}^0 = -94.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{411}^0 = 79.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FeS (s)	Iron(II) Sulfide beta	FeS (s)
$\Delta H_{411}^0 = -92.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 72.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (411 K) [4]		$S_{411}^0 = 85.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FeS (s)	Iron(II) Sulfide beta	FeS (s)
$\Delta H_{598}^0 = -78.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{598}^0 = 112.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FeS (s)	Iron(II) Sulfide gamma	FeS (s)
$\Delta H_{598}^0 = -78.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 51.05 + 9.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (598 K) [4]		$S_{598}^0 = 113.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
FeS (s)	Iron(II) Sulfide gamma	FeS (s)
$\Delta H_{1461}^0 = -25.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1461}^0 = 167.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

FeS (l)	Iron(II) Sulfide	FeS (l)
$\Delta H_{1461}^0 = 6.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1461}^0 = 189.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1461 K) [4]		
FeS (l)	Iron(II) Sulfide	FeS (l)
$\Delta H_{298}^0 = -68.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 82.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FeS (g)	Iron(II) Sulfide	FeS (g)
$\Delta H_{298}^0 = 370.8 \pm 16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 252.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
FeS₂ (s)	Iron Sulfide Pyrite	FeS₂ (s)
$\Delta H_{298}^0 = -171.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 52.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 68.95 + 14.1 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1016 K) [4]		
$\lg(p,K) = -14.93 \cdot 10^3 \cdot T^{-1} - 0.39 \cdot \lg(T) + 15.74$ (700 ... 1016 K) [4]		
{Reaction: decomposition $2\text{FeS}_2(\text{s}) = 2\text{FeS}(\text{s}) + \text{S}_2(\text{g})$ }		
FeS₂ (s)	Iron Sulfide Marcasite	FeS₂ (s)
$\Delta H_{298}^0 = -167.4 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 53.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.81 + 5.52 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [3]		
FeSe_{0.961} (s)	Iron Selenide	FeSe_{0.961} (s)
$\Delta H_{298}^0 = -66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 69.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 54.31 + 21.14 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 730 K) [4]		
FeSe_{1.143} (s)	Iron Selenide	FeSe_{1.143} (s)
$\Delta H_{298}^0 = -66.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 87.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 63.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [5]		

FeSe_{1.333} (s)	Iron Selenide	FeSe_{1.333} (s)
$\Delta H_{298}^0 = -73.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 93.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 73.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [5]		
FeSe₂ (s)	Iron Selenide	FeSe₂ (s)
$\Delta H_{298}^0 = -104.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 86.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [56.23] + [55.90] \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 622 K) [5]		
FeSi (s)	Iron Silicide	FeSi (s)
mp = 1683 K (1410 °C)		
$\Delta H_{298}^0 = -79.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 40.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.6 + 14.72 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1683 K) [4]		
FeSi₂ (s)	Iron Silicide	FeSi₂ (s)
$\Delta H_{298}^0 = -81.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 55.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
FeSi_{2.33} (s)	Iron Silicide	FeSi_{2.33} (s)
$\Delta H_{298}^0 = -59 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
FeTe_{0.9} (s)	Iron Telluride	FeTe_{0.9} (s)
mp = 1200 K (927 °C)		
$\Delta H_{298}^0 = -23.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 80.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [3]		
FeTe₂ (s)	Iron Telluride	FeTe₂ (s)
mp = 933 K (660 °C)		
$\Delta H_{298}^0 = -72.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 100.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

FeTi (s)	Iron Titanium	FeTi (s)
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$$\Delta H_{298}^0 = -40.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 52.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Fe₂I₄ (g) (FeI ₂) ₂ (g)	Iron(II) Iodide	Fe₂I₄ (g) (FeI ₂) ₂ (g)
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$$\Delta H_{298}^0 = 8.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 525 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [284]$$

$$C_p^0 = 130.73 + 3.27 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -13.23 \cdot 10^3 \cdot T^{-1} - 9.04 \cdot \lg(T) + 38.75 (650 \dots 860 \text{ K}) [4]$$

{Reaction: evaporation of FeI₂(s)}

Fe₂K₂O₄ (s) K ₂ O · Fe ₂ O ₃ (s)	Potassium Ferrate(III)	Fe₂K₂O₄ (s) K ₂ O · Fe ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -2476.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 175.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 200 + 47.7 \cdot 10^{-3} \cdot T - 2.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1300 \text{ K}) [4]$$

Fe₂Li₂O₄ (s) Li ₂ O · Fe ₂ O ₃ (s)	Lithium Ferrate(III)	Fe₂Li₂O₄ (s) Li ₂ O · Fe ₂ O ₃ (s)
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$$mp = 1891 \text{ K} (1618 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1538 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 162.34 + 103.35 \cdot 10^{-3} \cdot T - 2.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

Fe₂MgO₄ (s) MgO · Fe ₂ O ₃ (s)	Magnesium Ferrate(III)	Fe₂MgO₄ (s) MgO · Fe ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -1440.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 123.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 167.19 + 14.23 \cdot 10^{-3} \cdot T - 2.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Fe₂MnO₄ (s) MnO · Fe ₂ O ₃ (s)	Manganese Ferrate(III)	Fe₂MnO₄ (s) MnO · Fe ₂ O ₃ (s)
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$$\Delta H_{298}^0 = -1228.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 154 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 145.6 + 45.27 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1600 \text{ K}) [4]$$

Fe₂Na₂O₄ (s)	Sodium Ferrate(III)	Fe₂Na₂O₄ (s)
Na ₂ O · Fe ₂ O ₃ (s)		Na ₂ O · Fe ₂ O ₃ (s)

mp = 1620 K (1347 °C)

 $\Delta H_{298}^0 = -1396.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 176.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 197.65 + 28.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1620 K) [4]

Fe₂Na₂O₄ (s)	Sodium Ferrate(III)	Fe₂Na₂O₄ (s)
Na ₂ O · Fe ₂ O ₃ (s)		Na ₂ O · Fe ₂ O ₃ (s)

 $\Delta H_{1620}^0 = -1099.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1620}^0 = 548.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Fe₂Na₂O₄ (l)	Sodium Ferrate(III)	Fe₂Na₂O₄ (l)
Na ₂ O · Fe ₂ O ₃ (l)		Na ₂ O · Fe ₂ O ₃ (l)

 $\Delta H_{1620}^0 = -1000.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1620}^0 = 609.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 251.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1620 K) [4]

Fe₂Nb (s)	Niobium Iron	Fe₂Nb (s)
NbFe ₂ (s)		NbFe ₂ (s)

mp = 1900 K (1627 °C)

 $\Delta H_{298}^0 = -46.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Fe₂NiO₄ (s)	Nickel Ferrate(III)	Fe₂NiO₄ (s)
NiO · Fe ₂ O ₃ (s)		NiO · Fe ₂ O ₃ (s)

 $\Delta H_{298}^0 = -1084.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 125.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 152.67 + 77.82 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 853 K) [4]

Fe₂O₃ (s)	Iron(III) Oxide Hematite	Fe₂O₃ (s)
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 $\Delta H_{298}^0 = -823.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 98.28 + 77.82 \cdot 10^{-3} \cdot T - 1.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 950 K) [4]

Fe₂O₄Si (s) 2FeO · SiO ₂ (s)	Iron Silicate Fayalite	Fe₂O₄Si (s) 2FeO · SiO ₂ (s)
mp = 1493 K (1220 °C)		
$\Delta H_{298}^0 = -1477.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 145.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 152.76 + 39.16 \cdot 10^{-3} \cdot T - 2.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1493 K) [4]		
Fe₂O₄Ti (s) 2FeO · TiO ₂ (s)	Iron Titanate	Fe₂O₄Ti (s) 2FeO · TiO ₂ (s)
$\Delta H_{298}^0 = -1515.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 169 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 142.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Fe₂O₄Zn (s) ZnO · Fe ₂ O ₃ (s)	Zinc Ferrate(III)	Fe₂O₄Zn (s) ZnO · Fe ₂ O ₃ (s)
mp = 1863 K (1590 °C)		
$\Delta H_{298}^0 = -1179.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 153.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 189.74 + 7.32 \cdot 10^{-3} \cdot T - 4.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1863 K) [4]		
Fe₂O₁₂S₃ (s) Fe ₂ (SO ₄) ₃ (s)	Iron(III) Sulfate	Fe₂O₁₂S₃ (s) Fe ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -2583 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 307.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 361.3 + 54.76 \cdot 10^{-3} \cdot T - 10.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1005 K) [4]		
Fe₂P (s)	Iron Phosphide	Fe₂P (s)
mp = 1643 K (1370 °C)		
$\Delta H_{298}^0 = -160.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 72.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 76.78 + 17.03 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1643 K) [4]		
Fe₂Ta (s)	Iron Tantalum	Fe₂Ta (s)
$\Delta H_{298}^0 = -57.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 106.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 66.94 + 26.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1300 K) [3]		

Fe₂U (s)	Iron Uranium	Fe₂U (s)
mp = 1501 K (1228 °C)		
$\Delta H_{298}^0 = -32.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 78.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Fe₃Mo₂ (s)	Iron Molybdenum	Fe₃Mo₂ (s)
$\Delta H_{298}^0 = -4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Fe₃O₄ (s)	Iron(II,III) Oxide Magnetite	Fe₃O₄ (s)
mp = 1870 K (1597 °C)		
$\Delta H_{298}^0 = -1115.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 146.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 91.56 + 201.97 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
Fe₃P (s)	Iron Phosphide	Fe₃P (s)
mp = 1439 K (1166 °C)		
$\Delta H_{298}^0 = -164 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 101.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 117.15 + 12.97 \cdot 10^{-3} \cdot T - 1.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1439 K) [4]		
Fe₄N (s)	Iron Nitride	Fe₄N (s)
$\Delta H_{298}^0 = -11.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 155.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.3 + 34.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 923 K) [4]		
Ga (s)	Gallium	Ga (s)
mp = 303 K (30 °C)		bp = 2478 K (2205 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 40.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Ga (s)	Gallium	Ga (s)
$\Delta H_{303}^0 = 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{303}^0 = 41.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Fe₂U (s)	Iron Uranium	Fe₂U (s)
mp = 1501 K (1228 °C)		
$\Delta H_{298}^0 = -32.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 78.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Fe₃Mo₂ (s)	Iron Molybdenum	Fe₃Mo₂ (s)
$\Delta H_{298}^0 = -4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Fe₃O₄ (s)	Iron(II,III) Oxide Magnetite	Fe₃O₄ (s)
mp = 1870 K (1597 °C)		
$\Delta H_{298}^0 = -1115.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 146.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 91.56 + 201.97 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
Fe₃P (s)	Iron Phosphide	Fe₃P (s)
mp = 1439 K (1166 °C)		
$\Delta H_{298}^0 = -164 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 101.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 117.15 + 12.97 \cdot 10^{-3} \cdot T - 1.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1439 K) [4]		
Fe₄N (s)	Iron Nitride	Fe₄N (s)
$\Delta H_{298}^0 = -11.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 155.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.3 + 34.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 923 K) [4]		
Ga (s)	Gallium	Ga (s)
mp = 303 K (30 °C)		bp = 2478 K (2205 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 40.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Ga (s)	Gallium	Ga (s)
$\Delta H_{303}^0 = 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{303}^0 = 41.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Ga (l)	Gallium	Ga (l)
$\Delta H_{303}^0 = 5.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{303}^0 = 59.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 24.38 + 2.29 \cdot 10^{-3} \cdot T + 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (303 ... 700 K) [4]		
$\lg(p,K) = -13.99 \cdot 10^3 \cdot T^{-1} - 0.48 \cdot \lg(T) + 7.28$ (1000 ... 2478 K) [4]		
{Reaction: evaporation as Ga(g)}		
Ga (l)	Gallium	Ga (l)
$\Delta H_{298}^0 = 5.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 59.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 28.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Ga (g)	Gallium	Ga (g)
$\Delta H_{298}^0 = 272 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 169 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.87 - 1.38 \cdot 10^{-3} \cdot T + 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
GaH (g)	Gallium Hydride	GaH (g)
$\Delta H_{298}^0 = 220 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 195 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
GaH₃O₃ (s) Ga(OH) ₃ (s)	Gallium(III) Hydroxide	GaH₃O₃ (s) Ga(OH) ₃ (s)
$\Delta H_{298}^0 = -964 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
Gal (g)	Gallium(I) Iodide	Gal (g)
$\Delta H_{298}^0 = 17.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 259.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.99 + 0.66 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Gal₃ (s)	Gallium(III) Iodide	Gal₃ (s)
mp = 486 K (213 °C)		
$\Delta H_{298}^0 = -239.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 203.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 117.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

Gal₃ (s)	Gallium(III) iodide	Gal₃ (s)
$\Delta H_{486}^0 = -217.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{486}^0 = 261 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Gal₃ (l)	Gallium(III) iodide	Gal₃ (l)
$\Delta H_{486}^0 = -195.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{486}^0 = 306.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 128.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (486 K) [4]		
Gal₃ (g)	Gallium(III) iodide	Gal₃ (g)
$\Delta H_{298}^0 = -137.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 386 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.76 + 0.21 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -5.92 \cdot 10^3 \cdot T^{-1} - 4.65 \cdot \lg(T) + 23.04$ (298 ... 486 K) [4]		
{Reaction: evaporation of Gal ₃ (l)}		
GaN (s)	Gallium Nitride	GaN (s)
mp = 1770 K (1497 °C)		
$\Delta H_{298}^0 = -109.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 29.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.07 + 9 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 919 K) [4]		
GaO (g)	Gallium Oxide	GaO (g)
$\Delta H_{298}^0 = 141.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 230.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
GaP (s)	Gallium Phosphide	GaP (s)
mp = 1740 K (1467 °C)		
$\Delta H_{298}^0 = -102.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 52.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 41.84 + 6.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1740 K) [4]		
GaS (s)	Gallium Sulfide	GaS (s)
mp = 1288 K (1015 °C)		
$\Delta H_{298}^0 = -209.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 57.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.34 + 15.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1288 K) [4]		

GaSb (s)	Gallium Antimonide	GaSb (s)
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mp = 985 K (712 °C)

$$\Delta H_{298}^0 = -43.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 76.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 44.35 + 14.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 985 \text{ K}) [4]$$

GaSe (s)	Gallium Selenide	GaSe (s)
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mp = 1211 K (938 °C)

$$\Delta H_{298}^0 = -159 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 70.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 44.64 + 12.97 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1211 \text{ K}) [4]$$

GaTe (s)	Gallium Telluride	GaTe (s)
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mp = 1108 K (835 °C)

$$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 85.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 45.27 + 13.98 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1108 \text{ K}) [4]$$

GaTe (g)	Gallium Telluride	GaTe (g)
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$$\Delta H_{298}^0 = 169.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 266.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.39 + 0.01 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GaTe₂ (g)	Gallium Telluride	GaTe₂ (g)
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$$\Delta H_{298}^0 = 158.6 \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = [318.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [15]$$

$$C_p^0 = [53.95] + [0.06] \cdot 10^{-3} \cdot T + [0.08] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [5]$$

Ga₂I₆ (g) (GaI ₃) ₂ (g)	Gallium(III) Iodide	Ga₂I₆ (g) (GaI ₃) ₂ (g)
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$$\Delta H_{298}^0 = -324.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 667.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 182.42 + 0.26 \cdot 10^{-3} \cdot T - 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -7.16 \cdot 10^3 \cdot T^{-1} - 9.36 \cdot \lg(T) + 36.53 (486 \dots 618 \text{ K}) [4]$$

{Reaction: evaporation of GaI₃(l)}

Ga₂MnS₄ (s)	Manganese Gallium Sulfide	Ga₂MnS₄ (s)
MnGa ₂ S ₄ (s)		MnGa ₂ S ₄ (s)

$$\Delta H_{298}^0 = -768.7 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [222.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [199]$$

$$C_p^0 = [154.53] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ga₂Mn₃S₆ (s)	Manganese Gallium Sulfide	Ga₂Mn₃S₆ (s)
Mn ₃ Ga ₂ S ₆ (s)		Mn ₃ Ga ₂ S ₆ (s)

$$\Delta H_{298}^0 = -1204.5 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [383.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [200]$$

$$C_p^0 = [254.41] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ga₂O (g)	Gallium(I) Oxide	Ga₂O (g)
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$$\Delta H_{298}^0 = -98.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 283.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 48.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ga₂O₃ (s)	Gallium(III) Oxide	Ga₂O₃ (s)
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$$\text{mp} = 1998 \text{ K} (1725 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1089.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 112.88 + 15.44 \cdot 10^{-3} \cdot T - 2.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1998 \text{ K}) [4]$$

Ga₂O₁₂Se₃ (s)	Gallium Selenate	Ga₂O₁₂Se₃ (s)
Ga ₂ (SeO ₄) ₃ (s)		Ga ₂ (SeO ₄) ₃ (s)

$$\Delta H_{298}^0 = -1978.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 303.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 261.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Ga₂PbS₄ (s)	Lead Gallium Sulfide	Ga₂PbS₄ (s)
PbGa ₂ S ₄ (s)		PbGa ₂ S ₄ (s)

$$\Delta H_{298}^0 = -649.6 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [233.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [194]$$

$$C_p^0 = [154.13] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Ga₂Pb₂S₅ (s) Pb ₂ Ga ₂ S ₅ (s)	Lead Gallium Sulfide	Ga₂Pb₂S₅ (s) Pb ₂ Ga ₂ S ₅ (s)
$\Delta H_{298}^0 = -731.9 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8]		$S_{298}^0 = [324.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [197]
$C_p^0 = [203.67] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Ga₂S (s)	Gallium(I) Sulfide	Ga₂S (s)
mp = 1233 K (960 °C)		
$\Delta H_{298}^0 = -252.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 66.94 + 15.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1233 K) [4]		
Ga₂S (g)	Gallium(I) Sulfide	Ga₂S (g)
$\Delta H_{298}^0 = 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 290.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56 + 1.15 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Ga₂S₃ (s)	Gallium(III) Sulfide	Ga₂S₃ (s)
mp = 1393 K (1120 °C)		
$\Delta H_{298}^0 = -516.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 142.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 90.5 + 47.28 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1393 K) [4]		
Ga₂S₄Zn (s) ZnGa ₂ S ₄ (s)	Zinc Gallium Sulfide	Ga₂S₄Zn (s) ZnGa ₂ S ₄ (s)
$\Delta H_{298}^0 = -759.3 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8]		$S_{298}^0 = [200] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [202]
$C_p^0 = [149.89] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Ga₂Se (s)	Gallium(I) Selenide	Ga₂Se (s)
$\Delta H_{298}^0 = -183.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [113] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ga₂Se (g)	Gallium(I) Selenide	Ga₂Se (g)
$\Delta H_{298}^0 = 96.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 315.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.09 + 0.05 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Ga₂Se₃ (s)	Gallium(III) Selenide	Ga₂Se₃ (s)
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mp = 1278 K (1005 °C)

 $\Delta H_{298}^0 = -408.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 179.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 105.73 + 35.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1278 K) [4]

Ga₂Te (g)	Gallium(I) Telluride	Ga₂Te (g)
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 $\Delta H_{298}^0 = 151.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 327.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 58.08 + 0.05 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

Ga₂Te₃ (s)	Gallium(III) Telluride	Ga₂Te₃ (s)
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mp = 1063 K (790 °C)

 $\Delta H_{298}^0 = -274.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 213.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 105.73 + 35.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1063 K) [4]

Ga₄S₅ (s)	Gallium Sulfide	Ga₄S₅ (s)
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mp = 1213 K (940 °C)

 $\Delta H_{298}^0 = -985.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 259.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 173.18 + 78.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1213 K) [4]

Ga₆Pb₂S₁₁ (s)	Lead Gallium Sulfide	Ga₆Pb₂S₁₁ (s)
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Pb₂Ga₆S₁₁ (s)Pb₂Ga₆S₁₁ (s) $\Delta H_{298}^0 = -1784.9 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8] $S_{298}^0 = [609.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [195] $C_p^0 = [412.85] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

Ga₆Pb₄S₁₃ (s)	Lead Gallium Sulfide	Ga₆Pb₄S₁₃ (s)
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Pb₄Ga₆S₁₃ (s)Pb₄Ga₆S₁₃ (s) $\Delta H_{298}^0 = -1970.1 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8] $S_{298}^0 = [792.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [196] $C_p^0 = [511.93] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]

Ga₈S₁₃Zn (s)

Zinc Gallium Sulfide

Ga₈S₁₃Zn (s)ZnGa₈S₁₃ (s)ZnGa₈S₁₃ (s)

$$\Delta H_{298}^0 = -2329.2 \text{ kJ}\cdot\text{mol}^{-1} [190, 8]$$

$$S_{298}^0 = [626.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [203]$$

$$C_p^0 = [463.66] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Gd (s)Gadolinium
alpha**Gd (s)**

$$\text{mp} = 1585 \text{ K} (1312 \text{ }^\circ\text{C})$$

$$\text{bp} = 3535 \text{ K} (3262 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 67.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 6.69 + 32.65 \cdot 10^{-3} \cdot T + 1.84 \cdot 10^6 \cdot T^{-2} - 8.39 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1533 \text{ K}) [4]$$

$$\lg(p, K) = -21.31 \cdot 10^3 \cdot T^{-1} - 1.51 \cdot \lg(T) + 11.58 (1400 \dots 1533 \text{ K}) [4]$$

{Reaction: evaporation as Gd(g)}

Gd (s)Gadolinium
alpha**Gd (s)**

$$\Delta H_{1533}^0 = 40.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1533}^0 = 119.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1533 \text{ K}) [4]$$

Gd (s)Gadolinium
beta**Gd (s)**

$$\Delta H_{1533}^0 = 44.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1533}^0 = 122.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 28.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1533 \text{ K}) [4]$$

$$\lg(p, K) = -20.39 \cdot 10^3 \cdot T^{-1} - 0.44 \cdot \lg(T) + 7.58 (1533 \dots 1585 \text{ K}) [4]$$

{Reaction: evaporation as Gd(g)}

Gd (s)Gadolinium
beta**Gd (s)**

$$\Delta H_{1585}^0 = 45.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1585}^0 = 123.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 28.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1585 \text{ K}) [4]$$

Gd (l)	Gadolinium	Gd (l)
$\Delta H_{1585}^0 = 55.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1585}^0 = 129.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1585 K) [4]		
$\lg(p,K) = -20.63 \cdot 10^3 \cdot T^{-1} - 1.38 \cdot \lg(T) + 10.73$ (1585 ... 2000 K) [4]		
{Reaction: evaporation as Gd(g)}		
Gd (g)	Gadolinium	Gd (g)
$\Delta H_{298}^0 = 397.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 194.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 32.71 - 12.72 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} + 4.85 \cdot 10^{-6} \cdot T^2$ $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
GdI₃ (s)	Gadolinium(III) iodide alpha	GdI₃ (s)
mp = 1204 K (931 °C)		bp = 1683 K (1410 °C)
$\Delta H_{298}^0 = -594.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 226.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 106.62 + 0.87 \cdot 10^{-3} \cdot T - 0.73 \cdot 10^6 \cdot T^{-2}$ $\text{J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1013 K) [4]		
$\lg(p,K) = -14.91 \cdot 10^3 \cdot T^{-1} - 2.83 \cdot \lg(T) + 18.87$ (800 ... 1013 K) [4]		
{Reaction: evaporation as GdI ₃ (g)}		
GdI₃ (s)	Gadolinium(III) iodide alpha	GdI₃ (s)
$\Delta H_{1013}^0 = -519.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1013}^0 = 353.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
GdI₃ (s)	Gadolinium(III) iodide beta	GdI₃ (s)
$\Delta H_{1013}^0 = -518.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1013}^0 = 354.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 127.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1013 K) [4]		
$\lg(p,K) = -15.99 \cdot 10^3 \cdot T^{-1} - 5.39 \cdot \lg(T) + 27.63$ (1013 ... 1204 K) [4]		
{Reaction: evaporation as GdI ₃ (g)}		
GdI₃ (s)	Gadolinium(III) iodide beta	GdI₃ (s)
$\Delta H_{1204}^0 = -493.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1204}^0 = 376.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

GdI₃ (l)	Gadolinium(III) Iodide	GdI₃ (l)
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$$\Delta H_{1204}^0 = -439.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1204}^0 = 421.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 155.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1204 K) [4]}$$

$$\lg(p, K) = -14.93 \cdot 10^3 \cdot T^{-1} - 8.76 \cdot \lg(T) + 37.13 \text{ (1204 ... 1683 K) [4]}$$

{Reaction: evaporation as GdI₃(g)}

GdI₃ (g)	Gadolinium(III) Iodide	GdI₃ (g)
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$$\Delta H_{298}^0 = -316.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 427.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 83.12 + 0.02 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

GdS (s)	Gadolinium Sulfide	GdS (s)
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$$\text{mp} = 2300 \text{ K (2027 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

GdS (g)	Gadolinium Sulfide	GdS (g)
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$$\Delta H_{298}^0 = 155.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [264.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

$$C_p^0 = [37.13] + [0.15] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [5]}$$

GdSe (s)	Gadolinium Selenide	GdSe (s)
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$$\text{mp} = 2133 \text{ K (1860 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [89.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

GdSe (g)	Gadolinium Selenide	GdSe (g)
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$$\Delta H_{298}^0 = 206.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [275.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

$$C_p^0 = [37.29] + [0.07] \cdot 10^{-3} \cdot T + [-0.18] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [5]}$$

GdTe (s)	Gadolinium Telluride	GdTe (s)
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$$\text{mp} = 2140 \text{ K (1867 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

GdTe (g)	Gadolinium Telluride	GdTe (g)
$\Delta H_{298}^0 = 271.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [284.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Gd₂O₃ (s)	Gadolinium(III) Oxide cubic	Gd₂O₃ (s)
$\Delta H_{298}^0 = -1826.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.21 + 12.95 \cdot 10^{-3} \cdot T - 1.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1550 K) [4]		
Gd₂O₃ (s)	Gadolinium(III) Oxide monoclinic	Gd₂O₃ (s)
$\Delta H_{298}^0 = -1819.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 114.5 + 14.47 \cdot 10^{-3} \cdot T - 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Gd₂S₃ (s)	Gadolinium(III) Sulfide	Gd₂S₃ (s)
mp = 2160 K (1887 °C)		
$\Delta H_{298}^0 = [-1205] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [198.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Gd₂Se₃ (s)	Gadolinium(III) Selenide	Gd₂Se₃ (s)
$\Delta H_{298}^0 = [-941.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [236.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Gd₂Te₃ (s)	Gadolinium(III) Telluride	Gd₂Te₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [257.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ge (s)	Germanium	Ge (s)
mp = 1210 K (937 °C)		bp = 3104 K (2831 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 31.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 23.35 + 3.9 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1210 K) [4]		

Ge (s)	Germanium	Ge (s)
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$$\Delta H_{1210}^0 = 23.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1210}^0 = 66.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1210 \text{ K}) [4]$$

Ge (l)	Germanium	Ge (l)
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$$\Delta H_{1210}^0 = 60.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1210}^0 = 97.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 27.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1210 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -17.94 \cdot 10^3 \cdot T^{-1} - 0.47 \cdot \lg(T) + 7.42 (1210 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as Ge(g)}

Ge (g)	Germanium	Ge (g)
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$$\Delta H_{298}^0 = 374.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 167.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 29.47 - 3.66 \cdot 10^{-3} \cdot T + 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GeH₄ (g)	Germanium(IV) Hydride	GeH₄ (g)
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$$\text{mp} = 108 \text{ K} (-165 \text{ }^\circ\text{C})$$

$$\text{bp} = 183 \text{ K} (-90 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 90.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 217.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 62.55 + 22.09 \cdot 10^{-3} \cdot T - 2.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

GeI₂ (s)	Germanium(II) Iodide	GeI₂ (s)
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$$\Delta H_{298}^0 = -88 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 77.82 + 12.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 900 \text{ K}) [4]$$

$$\lg(p, K) = -8.61 \cdot 10^3 \cdot T^{-1} - 3.68 \cdot \lg(T) + 20.44 (500 \dots 900 \text{ K}) [4]$$

{Reaction: evaporation as GeI₂(g)}

GeI₂ (g)	Germanium(II) Iodide	GeI₂ (g)
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$$\Delta H_{298}^0 = 66.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 318 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.85 + 0.22 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GeI₄ (s)	Germanium(IV) Iodide	GeI₄ (s)
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mp = 419 K (146 °C)

$$\Delta H_{298}^0 = -141.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 271.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 81.17 + 150.62 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 419 \text{ K}) [4]$$

$$\lg(p, K) = -5.03 \cdot 10^3 \cdot T^{-1} - 3.61 \cdot \lg(T) + 18.78 (298 \dots 419 \text{ K}) [4]$$

{Reaction: evaporation as GeI₄(g)}

GeI₄ (s)	Germanium(IV) Iodide	GeI₄ (s)
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$$\Delta H_{419}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{419}^0 = 316.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

GeI₄ (l)	Germanium(IV) Iodide	GeI₄ (l)
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$$\Delta H_{419}^0 = -108.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{419}^0 = 356.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (419 \text{ K}) [4]$$

$$\lg(p, K) = -4.84 \cdot 10^3 \cdot T^{-1} - 7.36 \cdot \lg(T) + 28.14 (419 \dots 650 \text{ K}) [4]$$

{Reaction: evaporation as GeI₄(g)}

GeI₄ (g)	Germanium(IV) Iodide	GeI₄ (g)
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$$\Delta H_{298}^0 = -54.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 428.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 106.84 + 0.65 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GeMg₂ (s)	Magnesium Germanium	GeMg₂ (s)
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Mg₂Ge (s)

Mg₂Ge (s)

mp = 1391 K (1118 °C)

$$\Delta H_{298}^0 = -115.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 72.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 73.43 + 17.99 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1391 \text{ K}) [4]$$

GeNi₂ (s)	Germanium Nickel	GeNi₂ (s)
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$$\Delta H_{298}^0 = -110.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 90.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

GeO (s)	Germanium(II) Oxide	GeO (s)
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$$\Delta H_{298}^0 = -210.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 39.96 + 14.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 982 K) [4]}$$

$$\lg(p, K) = -8.87 \cdot 10^3 \cdot T^{-1} - 1.86 \cdot \lg(T) + 14.6 \text{ (500 ... 982 K) [4]}$$

{Reaction: evaporation as GeO(g)}

$$\text{bp} = 982 \text{ K (709 }^\circ\text{C)}$$

$$S_{298}^0 = 50 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeO (g)	Germanium(II) Oxide	GeO (g)
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$$\Delta H_{298}^0 = -46 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 37.36 + 0.1 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$S_{298}^0 = 224 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeO₂ (s)	Germanium(IV) Oxide hexagonale	GeO₂ (s)
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$$\text{mp} = 1409 \text{ K (1136 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -557.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 68.92 + 9.86 \cdot 10^{-3} \cdot T - 1.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1409 K) [4]}$$

$$S_{298}^0 = 55.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeO₂ (s)	Germanium(IV) Oxide	GeO₂ (s)
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$$\Delta H_{1409}^0 = -476.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1409}^0 = 163.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeO₂ (l)	Germanium(IV) Oxide	GeO₂ (l)
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$$\Delta H_{1409}^0 = -459.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 90.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1409 K) [4]}$$

$$S_{1409}^0 = 175.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeP (s)	Germanium Phosphide	GeP (s)
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$$\Delta H_{298}^0 = -27.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$C_p^0 = 45.4 + 11.3 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1700 K) [4]}$$

$$S_{298}^0 = 61.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

GeS (s)	Germanium(II) Sulfide	GeS (s)
mp = 938 K (665 °C)		
$\Delta H_{298}^0 = -61.2 \pm 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [79]		$S_{298}^0 = 66.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [79]
$C_p^0 = 41.8 + 20.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 938 K) [4]		
$\lg(p,K) = -9.18 \cdot 10^3 \cdot T^{-1} - 2.6 \cdot \lg(T) + 16.68$ (500 ... 938 K) [4]		
{Reaction: evaporation as GeS(g)}		
GeS (l)	Germanium(II) Sulfide	GeS (l)
$\Delta H_{298}^0 = -38.6 \text{ kJ}\cdot\text{mol}^{-1}$ [188, 8]		$S_{298}^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [188, 8]
GeS (g)	Germanium(II) Sulfide	GeS (g)
$\Delta H_{298}^0 = 106.1 \text{ kJ}\cdot\text{mol}^{-1}$ [79]		$S_{298}^0 = 235.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.74 + 0.42 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
GeS₂ (s)	Germanium(IV) Sulfide	GeS₂ (s)
mp = 1113 K (840 °C)		
$\Delta H_{298}^0 = -156.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56.44 + 31.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1113 K) [4]		
GeSe (s)	Germanium(II) Selenide	GeSe (s)
mp = 948 K (675 °C)		bp = 1143 K (870 °C)
$\Delta H_{298}^0 = -69 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.1 + 16.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 948 K) [4]		
$\lg(p,K) = -9.58 \cdot 10^3 \cdot T^{-1} - 2.62 \cdot \lg(T) + 16.63$ (600 ... 948 K) [4]		
{Reaction: evaporation as GeSe(g)}		
GeSe (s)	Germanium(II) Selenide	GeSe (s)
$\Delta H_{948}^0 = -33.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{948}^0 = 141.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
GeSe (l)	Germanium(II) Selenide	GeSe (l)
$\Delta H_{948}^0 = -8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{948}^0 = 167.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 63.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (948 K) [4]		

GeSe (l)	Germanium(II) Selenide	GeSe (l)
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$$\Delta H_{298}^0 = -36.4 \text{ kJ}\cdot\text{mol}^{-1} [188, 8]$$

$$S_{298}^0 = 112.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [188, 8]$$

GeSe (g)	Germanium(II) Selenide	GeSe (g)
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$$\Delta H_{298}^0 = 105.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 247.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 36.99 + 0.17 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GeSe₂ (s)	Germanium(IV) Selenide	GeSe₂ (s)
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$$mp = 1013 \text{ K (740 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -113 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 112.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 62.89 + 27.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1013 \text{ K}) [4]$$

GeTe (s)	Germanium(II) Telluride	GeTe (s)
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$$mp = 997 \text{ K (724 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -15.9 \text{ kJ}\cdot\text{mol}^{-1} [78]$$

$$S_{298}^0 = 88.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 48.12 + 12.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 - 997 \text{ K}) [4]$$

$$\lg(p, K) = -10.58 \cdot 10^3 \cdot T^{-1} - 2.59 \cdot \lg(T) + 16.47 (600 \dots 997 \text{ K}) [4]$$

{Reaction: evaporation as GeTe(g)}

GeTe (l)	Germanium(II) Telluride	GeTe (l)
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$$\Delta H_{298}^0 = 24.3 \text{ kJ}\cdot\text{mol}^{-1} [188, 8]$$

$$S_{298}^0 = 129.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [188, 8]$$

GeTe (g)	Germanium(II) Telluride	GeTe (g)
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$$\Delta H_{298}^0 = 183.7 \text{ kJ}\cdot\text{mol}^{-1} [78]$$

$$S_{298}^0 = 255.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.36 - 0.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

GeTe₂ (g)	Germanium(IV) Telluride	GeTe₂ (g)
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$$\Delta H_{298}^0 = 207.1 \text{ kJ}\cdot\text{mol}^{-1} [78]$$

$$S_{298}^0 = 305.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

GeU (s)	Germanium Uranium	GeU (s)
$\Delta H_{298}^0 = -61.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 90.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ge₂U (s)	Germanium Uranium	Ge₂U (s)
mp = 1723 K (1450 °C)		
$\Delta H_{298}^0 = -87.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 130.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 75.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ge₃N₄ (s)	Germanium Nitride	Ge₃N₄ (s)
$\Delta H_{298}^0 = -63 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 155 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
Ge₃Ti₅ (s)	Titanium Germanium	Ge₃Ti₅ (s)
Ti ₅ Ge ₃ (s)		Ti ₅ Ge ₃ (s)
$\Delta H_{298}^0 = -558.4 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [83]		$S_{298}^0 = [247] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [83]
Ge₃U (s)	Germanium Uranium	Ge₃U (s)
mp = 1748 K (1475 °C)		
$\Delta H_{298}^0 = -106.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 170.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ge₃U₅ (s)	Germanium Uranium	Ge₃U₅ (s)
mp = 1943 K (1670 °C)		
$\Delta H_{298}^0 = -235.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 374.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 208.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Ge₅Ti₆ (s)	Titanium Germanium	Ge₅Ti₆ (s)
Ti ₆ Ge ₅ (s)		Ti ₆ Ge ₅ (s)
$\Delta H_{298}^0 = -771.1 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [83]		$S_{298}^0 = [340] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [83]

Ge₅U₃ (s)	Germanium Uranium	Ge₅U₃ (s)
$\Delta H_{298}^0 = -239.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 351.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 203.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
H (g)	Hydrogen	H (g)
$\Delta H_{298}^0 = 218 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 114.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
HHg (g) HgH (g)	Mercury(I) Hydride	HHg (g) HgH (g)
$\Delta H_{298}^0 = 238.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 219.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.02 + 10.69 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} - 2.45 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HI (g)	Hydrogen Iodide	HI (g)
mp = 223 K (-50 °C)		bp = 238 K (-35 °C)
$\Delta H_{298}^0 = 26.4 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 206.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.36 + 3.83 \cdot 10^{-3} \cdot T + 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -0.2 \cdot 10^3 \cdot T^{-1} + 0.39 \cdot \lg(T) - 1.68$ (298 ... 2000 K) [4]		
{Reaction: decomposition HI(g) = 1/2H ₂ (g) + 1/2I ₂ (g)}		
HI₃Si (g) SiHI ₃ (g)	Triiodosilane	HI₃Si (g) SiHI ₃ (g)
$\Delta H_{298}^0 = -74.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 375 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
HIn (g) InH (g)	Indium(I) Hydride	HIn (g) InH (g)
$\Delta H_{298}^0 = 215 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 208 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		

Ge₅U₃ (s)	Germanium Uranium	Ge₅U₃ (s)
$\Delta H_{298}^0 = -239.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 351.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 203.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
H (g)	Hydrogen	H (g)
$\Delta H_{298}^0 = 218 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 114.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
HHg (g) HgH (g)	Mercury(I) Hydride	HHg (g) HgH (g)
$\Delta H_{298}^0 = 238.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 219.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.02 + 10.69 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} - 2.45 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HI (g)	Hydrogen Iodide	HI (g)
mp = 223 K (-50 °C)		bp = 238 K (-35 °C)
$\Delta H_{298}^0 = 26.4 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 206.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.36 + 3.83 \cdot 10^{-3} \cdot T + 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -0.2 \cdot 10^3 \cdot T^{-1} + 0.39 \cdot \lg(T) - 1.68$ (298 ... 2000 K) [4]		
{Reaction: decomposition HI(g) = 1/2H ₂ (g) + 1/2I ₂ (g)}		
HI₃Si (g) SiHI ₃ (g)	Triiodosilane	HI₃Si (g) SiHI ₃ (g)
$\Delta H_{298}^0 = -74.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 375 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
HIn (g) InH (g)	Indium(I) Hydride	HIn (g) InH (g)
$\Delta H_{298}^0 = 215 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 208 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		

HK (s) KH (s)	Potassium Hydride	HK (s) KH (s)
$\Delta H_{298}^0 = -57.8 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.8 + 26.78 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 690 K) [4]		
$\lg(p, K) = -6.41 \cdot 10^3 \cdot T^{-1} - 0.5 \cdot \lg(T) + 10.71$ (400 ... 690 K) [4]		
{Reaction: evaporation as KH(g)}		
HK (g) KH (g)	Potassium Hydride	HK (g) KH (g)
$\Delta H_{298}^0 = 123 \pm 14.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 198 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.33 + 2 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HKO (s) KOH (s)	Potassium Hydroxide alpha	HKO (s) KOH (s)
mp = 679 K (406 °C)		bp = 1589 K (1316 °C)
$\Delta H_{298}^0 = -424.7 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 78.9 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.3 + 72.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 516 K) [4]		
HKO (s) KOH (s)	Potassium Hydroxide alpha	HKO (s) KOH (s)
$\Delta H_{516}^0 = -408.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{516}^0 = 118.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HKO (s) KOH (s)	Potassium Hydroxide beta	HKO (s) KOH (s)
$\Delta H_{516}^0 = -402.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{516}^0 = 131 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (516 K) [4]		
HKO (s) KOH (s)	Potassium Hydroxide beta	HKO (s) KOH (s)
$\Delta H_{679}^0 = -389.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{679}^0 = 152.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

HKO (l) KOH (l)	Potassium Hydroxide	HKO (l) KOH (l)
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$$\Delta H_{679}^0 = -380.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 83.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (679 \text{ K}) [4]$$

$$S_{679}^0 = 165.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

HKO (l) KOH (l)	Potassium Hydroxide	HKO (l) KOH (l)
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$$\Delta H_{298}^0 = -412.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 83.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 96.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

HKO (g) KOH (g)	Potassium Hydroxide	HKO (g) KOH (g)
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$$\Delta H_{298}^0 = -232.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 51.24 + 3.92 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -9.72 \cdot 10^3 \cdot T^{-1} - 3.36 \cdot \lg(T) + 16.86 (679 \dots 1589 \text{ K}) [4]$$

{Reaction: evaporation of KOH(l)}

$$S_{298}^0 = 236.4 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

HKO₄S (s) KHSO ₄ (s)	Potassium Hydrogen Sulfate	HKO₄S (s) KHSO ₄ (s)
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$$\Delta H_{298}^0 = -1161 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 138 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

HK₂O₄P (s) K ₂ HPO ₄ (s)	Dipotassium Hydrogen Phosphate	HK₂O₄P (s) K ₂ HPO ₄ (s)
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$$\Delta H_{298}^0 = -1775.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 164.56 + 41.46 \cdot 10^{-3} \cdot T - 2.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$S_{298}^0 = 179.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

HLaO₂ (s) LaOOH (s)	Lanthanum Oxide Hydroxide	HLaO₂ (s) LaOOH (s)
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$$\Delta H_{298}^0 = -1078.6 \pm 1.4 \text{ kJ}\cdot\text{mol}^{-1} [95]$$

$$S_{298}^0 = [72.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [87]$$

HLi (s) LiH (s)	Lithium Hydride	HLi (s) LiH (s)
mp = 961 K (688 °C)		
$\Delta H_{298}^0 = -90.6 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 20 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 16.99 + 50.83 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 961 K) [4]		
HLi (s) LiH (s)	Lithium Hydride	HLi (s) LiH (s)
$\Delta H_{961}^0 = -59 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{961}^0 = 71.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HLi (l) LiH (l)	Lithium Hydride	HLi (l) LiH (l)
$\Delta H_{961}^0 = -36.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{961}^0 = 95.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (961 K) [4]		
HLi (l) LiH (l)	Lithium Hydride	HLi (l) LiH (l)
$\Delta H_{298}^0 = -77.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 22.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
HLi (g) LiH (g)	Lithium Hydride	HLi (g) LiH (g)
$\Delta H_{298}^0 = 140.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 170.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.4 + 1.27 \cdot 10^{-3} \cdot T - 1.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HLiO (s) LiOH (s)	Lithium Hydroxide	HLiO (s) LiOH (s)
mp = 744 K (471 °C)		bp = 1312 K (1039 °C)
$\Delta H_{298}^0 = -484.9 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 42.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.17 + 34.48 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 744 K) [4]		

HLiO (s) LiOH (s)	Lithium Hydroxide	HLiO (s) LiOH (s)
$\Delta H_{744}^0 = -456.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{744}^0 = 99.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HLiO (l) LiOH (l)	Lithium Hydroxide	HLiO (l) LiOH (l)
$\Delta H_{744}^0 = -435.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 87.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (744 K) [4]		$S_{744}^0 = 127.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HLiO (l) LiOH (l)	Lithium Hydroxide	HLiO (l) LiOH (l)
$\Delta H_{298}^0 = -474.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 87.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (744 K) [4]		$S_{298}^0 = 48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HLiO (g) LiOH (g)	Lithium Hydroxide	HLiO (g) LiOH (g)
$\Delta H_{298}^0 = -234.3 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 52.43 + 3.27 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 210.7 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HMg (g) MgH (g)	Magnesium Hydride	HMg (g) MgH (g)
$\Delta H_{298}^0 = 169 \pm 48.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 193.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HMgO (g) MgOH (g)	Magnesium Hydroxide	HMgO (g) MgOH (g)
$\Delta H_{298}^0 = -164.8 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 43.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 226.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

HN (g) NH (g)	Imidogen	HN (g) NH (g)
$\Delta H_{298}^0 = 376.6 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 181.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HNO (g)	Nitrosyl Hydride	HNO (g)
$\Delta H_{298}^0 = 99.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 220.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HNO₂ (g) HONO (g)	Nitrous Acid trans	HNO₂ (g) HONO (g)
$\Delta H_{298}^0 = -78.8 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 55.44 + 13.64 \cdot 10^{-3} \cdot T - 1.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		$S_{298}^0 = 249.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HNO₂ (g) HONO (g)	Nitrous Acid cis	HNO₂ (g) HONO (g)
$\Delta H_{298}^0 = -76.7 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 54.68 + 14.31 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		$S_{298}^0 = 249.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HNO₃ (l)	Nitric Acid	HNO₃ (l)
mp = 232 K (-41 °C) $\Delta H_{298}^0 = -174.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 109.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		bp = 357 K (84 °C) $S_{298}^0 = 155.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HNO₃ (g)	Nitric Acid	HNO₃ (g)
$\Delta H_{298}^0 = -134.3 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 33.51 + 80.25 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [6]		$S_{298}^0 = 266.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

HNa (s) NaH (s)	Sodium Hydride	HNa (s) NaH (s)
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mp = 911 K (638 °C)

$$\Delta H_{298}^0 = -56.4 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.36 + 27.06 \cdot 10^{-3} \cdot T - 0.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 700 \text{ K}) [4]$$

HNa (g) NaH (g)	Sodium Hydride	HNa (g) NaH (g)
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$$\Delta H_{298}^0 = 124.3 \pm 19.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 188.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.43 + 1.39 \cdot 10^{-3} \cdot T - 1.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -9.79 \cdot 10^3 \cdot T^{-1} - 2.18 \cdot \lg(T) + 14.27 (600 \dots 700 \text{ K}) [4]$$

{Reaction: evaporation of NaH(s)}

HNaO (s) NaOH (s)	Sodium Hydroxide alpha	HNaO (s) NaOH (s)
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mp = 596 K (323 °C)

bp = 1828 K (1555 °C)

$$\Delta H_{298}^0 = -425.9 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 64.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.76 - 110.88 \cdot 10^{-3} \cdot T + 235.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 572 \text{ K}) [4]$$

HNaO (s) NaOH (s)	Sodium Hydroxide alpha	HNaO (s) NaOH (s)
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$$\Delta H_{572}^0 = -406.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{572}^0 = 108.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

HNaO (s) NaOH (s)	Sodium Hydroxide beta	HNaO (s) NaOH (s)
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$$\Delta H_{572}^0 = -399.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{572}^0 = 121.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 85.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (572 \text{ K}) [4]$$

HNaO (s) NaOH (s)	Sodium Hydroxide beta	HNaO (s) NaOH (s)
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$$\Delta H_{596}^0 = -397.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

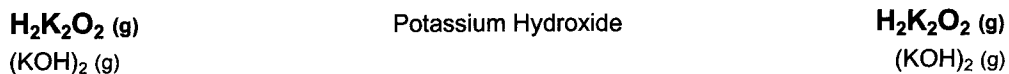
$$S_{596}^0 = 125 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

HNaO (l) NaOH (l)	Sodium Hydroxide	HNaO (l) NaOH (l)
$\Delta H_{596}^0 = -391 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{596}^0 = 136.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.45 - 5.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (596 ... 1828 K) [4]		
$\lg(p, K) = -11.73 \cdot 10^3 \cdot T^{-1} - 3.22 \cdot \lg(T) + 16.92$ (700 ... 1828 K) [4]		
{Reaction: evaporation as NaOH(g)}		
HNaO (l) NaOH (l)	Sodium Hydroxide	HNaO (l) NaOH (l)
$\Delta H_{298}^0 = -416.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 75.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 89.45 - 5.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (596 ... 1828 K) [4]		
HNaO (g) NaOH (g)	Sodium Hydroxide	HNaO (g) NaOH (g)
$\Delta H_{298}^0 = -197.8 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 51.21 + 3.9 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HNaO₄S (s) NaHSO ₄ (s)	Sodium Hydrogen Sulfate	HNaO₄S (s) NaHSO ₄ (s)
$\Delta H_{298}^0 = -1126 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
HNa₂O₄P (s) Na ₂ HPO ₄ (s)	Sodium Hydrogen Phosphate	HNa₂O₄P (s) Na ₂ HPO ₄ (s)
$\Delta H_{298}^0 = -1748 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 150 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 135 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
HNi (g) NiH (g)	Nickel(I) Hydride	HNi (g) NiH (g)
$\Delta H_{298}^0 = 393.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 210.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.3 + 3.05 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

HO (g) OH (g)	Hydroxyl	HO (g) OH (g)
$\Delta H_{298}^0 = 39 \pm 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 30 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 183.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HORb (s) RbOH (s)	Rubidium Hydroxide alpha	HORb (s) RbOH (s)
mp = 658 K (385 °C) $\Delta H_{298}^0 = -418.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 64.85 + 71.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 508 K) [4]		$S_{298}^0 = 92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HORb (s) RbOH (s)	Rubidium Hydroxide alpha	HORb (s) RbOH (s)
$\Delta H_{508}^0 = -399.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{508}^0 = 141.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HORb (s) RbOH (s)	Rubidium Hydroxide beta	HORb (s) RbOH (s)
$\Delta H_{508}^0 = -393.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (508 K) [4]		$S_{508}^0 = 152.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HORb (s) RbOH (s)	Rubidium Hydroxide beta	HORb (s) RbOH (s)
$\Delta H_{658}^0 = -381.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{658}^0 = 172.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HORb (l) RbOH (l)	Rubidium Hydroxide	HORb (l) RbOH (l)
$\Delta H_{658}^0 = -373 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 83.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (658 K) [4]		$S_{658}^0 = 186.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HOSr (g) SrOH (g)	Strontium Hydroxide	HOSr (g) SrOH (g)
$\Delta H_{298}^0 = -205.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 45.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 246.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

HOTI (s) TIOH (s)	Thallium(I) Hydroxide	HOTI (s) TIOH (s)
$\Delta H_{298}^0 = -239 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
HO₂ (g) HOO (g)	Hydroperoxo	HO₂ (g) HOO (g)
$\Delta H_{298}^0 = 2.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 229.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HO₂Si (g) SiOOH (g)	Silicon Oxide Hydroxide	HO₂Si (g) SiOOH (g)
$\Delta H_{298}^0 = -493.7 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [252]		$S_{298}^0 = [254] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
HP (g) PH (g)	Phosphinidene	HP (g) PH (g)
$\Delta H_{298}^0 = 233.6 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 29.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 196.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HPb (g) PbH (g)	Lead(I) Hydride	HPb (g) PbH (g)
$\Delta H_{298}^0 = 236.2 \pm 19.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 27.54 + 9.91 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^{-6} \cdot T^{-2} - 2.16 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 220.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HRb (s) RbH (s)	Rubidium Hydride	HRb (s) RbH (s)
$\Delta H_{298}^0 = -52.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 27.7 + 40.67 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 598 K) [4]		$S_{298}^0 = 58.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HS (g)	Mercapto	HS (g)
$\Delta H_{298}^0 = 139.3 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 28.3 + 3.6 \cdot 10^{-3} \cdot T + 0.2 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 195.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

HSe (g) SeH (g)	Selenium(I) Hydride	HSe (g) SeH (g)
$\Delta H_{298}^0 = 143.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [231.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
HSi (g) SiH (g)	Silylydyne	HSi (g) SiH (g)
$\Delta H_{298}^0 = 376.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 198 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.51 + 4.21 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HZr (g) ZrH (g)	Zirconium Hydride	HZr (g) ZrH (g)
$\Delta H_{298}^0 = 516.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 216.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₂ (g)	Hydrogen	H₂ (g)
mp = 16 K (-257 °C)		bp = 20 K (-253 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 130.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.88 + 3.59 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
$\lg(p, K) = -11.49 \cdot 10^3 \cdot T^{-1} + 0.4 \cdot \lg(T) + 1.64$ (1000 ... 3000 K) [4]		
{Reaction: decomposition $1/2\text{H}_2(\text{g}) = \text{H}(\text{g})$ }		
H₂I₂Si (g) SiH ₂ I ₂ (g)	Diiodosilane	H₂I₂Si (g) SiH ₂ I ₂ (g)
$\Delta H_{298}^0 = -38.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 326.8 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₂KO₄P (s) KH ₂ PO ₄ (s)	Potassium Dihydrogen Phosphate	H₂KO₄P (s) KH ₂ PO ₄ (s)
mp = 526 K (253 °C)		
$\Delta H_{298}^0 = -1568.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 134.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 144.52 + 38.95 \cdot 10^{-3} \cdot T - 3.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 526 K) [4]		

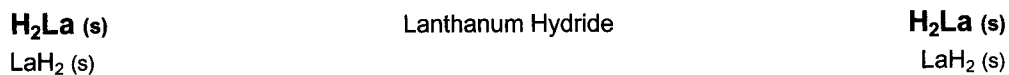


$$\Delta H_{298}^0 = -654.8 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 328 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 97.61 + 14.28 \cdot 10^{-3} \cdot T - 1.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -9.1 \cdot 10^3 \cdot T^{-1} - 6.6 \cdot \lg(T) + 25.37 \text{ (679 ... 1589 K) [4]}$$

{Reaction: evaporation of KOH(l)}



$$\Delta H_{298}^0 = -201.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 51.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 39.25 + 15.15 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1150 K) [4]}$$

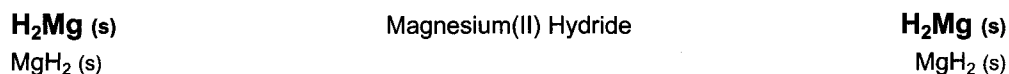


$$\Delta H_{298}^0 = -711.3 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 269.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 95.47 + 15.47 \cdot 10^{-3} \cdot T + 2.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

$$\lg(p, K) = -7.35 \cdot 10^3 \cdot T^{-1} - 1.57 \cdot \lg(T) + 8.05 \text{ (600 ... 1843 K) [4]}$$

{Reaction: evaporation of LiOH(l)}

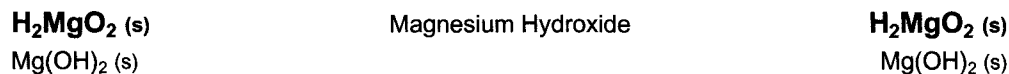


$$\Delta H_{298}^0 = -76.2 \pm 9.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 31.1 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 27.2 + 49.37 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 566 K) [4]}$$

$$\lg(p, K) = -3.82 \cdot 10^3 \cdot T^{-1} + 1.35 \cdot \lg(T) + 3.03 \text{ (298 ... 566 K) [4]}$$

{Reaction: decomposition MgH₂(s) = Mg(s) + H₂(g)}



$$\Delta H_{298}^0 = -924.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 63.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 46.82 + 102.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 700 K) [4]}$$

H₂MgO₂ (g) Mg(OH) ₂ (g)	Magnesium Hydroxide	H₂MgO₂ (g) Mg(OH) ₂ (g)
$\Delta H_{298}^0 = -572.4 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 69.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 267.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
H₂Mg₃O₁₂Si₄ (s) Mg ₃ Si ₄ O ₁₀ (OH) ₂ (s)	Talc	H₂Mg₃O₁₂Si₄ (s) Mg ₃ Si ₄ O ₁₀ (OH) ₂ (s)
$\Delta H_{298}^0 = -5922.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 321.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 260.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
H₂MoO₄ (g)	Molybdic Acid	H₂MoO₄ (g)
$\Delta H_{298}^0 = -851 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 131.29 + 11.62 \cdot 10^{-3} \cdot T - 2.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 355.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
H₂N (g) NH ₂ (g)	Amidogen	H₂N (g) NH ₂ (g)
$\Delta H_{298}^0 = 190.4 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 33.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 194.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
H₂N₂ (g) HNNH (g)	Diazene cis	H₂N₂ (g) HNNH (g)
$\Delta H_{298}^0 = 213 \pm 10.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 36.55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 218.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
H₂NaO₄P (s) NaH ₂ PO ₄ (s)	Sodium Dihydrogen Phosphate	H₂NaO₄P (s) NaH ₂ PO ₄ (s)
$\Delta H_{298}^0 = -1537 \text{ kJ}\cdot\text{mol}^{-1}$ [7] $C_p^0 = 117 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		$S_{298}^0 = 127 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]

H₂Na₂O₂ (g) (NaOH) ₂ (g)	Sodium Hydroxide	H₂Na₂O₂ (g) (NaOH) ₂ (g)
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$\Delta H^0_{298} = -607.5 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S^0_{298} = 307.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 96.28 + 15.04 \cdot 10^{-3} \cdot T - 2.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -11.75 \cdot 10^3 \cdot T^{-1} - 5.95 \cdot \lg(T) + 23.73$ (800 ... 1828 K) [4]	
{Reaction: evaporation of NaOH(l)}	

H₂Nd (s) NdH ₂ (s)	Neodymium(II) Hydride	H₂Nd (s) NdH ₂ (s)
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$\Delta H^0_{298} = -192.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S^0_{298} = 58.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.24 + 16.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1128 K) [4]	

H₂NiO₂ (g) Ni(OH) ₂ (g)	Nickel Hydroxide	H₂NiO₂ (g) Ni(OH) ₂ (g)
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$\Delta H^0_{298} = -255.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S^0_{298} = 291.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 87.07 + 7.66 \cdot 10^{-3} \cdot T - 2.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2228 K) [4]	

H₂O (l)	Water	H₂O (l)
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$\Delta H^0_{298} = -285.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S^0_{298} = 70 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.36 + 109.2 \cdot 10^{-3} \cdot T + 2.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]	
$\lg(p, K) = -2.96 \cdot 10^3 \cdot T^{-1} - 5.13 \cdot \lg(T) + 21.13$ (298 ... 373 K) [4]	
{Reaction: evaporation}	

H₂O (g)	Water	H₂O (g)
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$\Delta H^0_{298} = -241.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S^0_{298} = 188.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.38 + 7.84 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -3000 K) [4]	
$\lg(p, K) = -8.63 \cdot 10^3 \cdot T^{-1} + 0.16 \cdot \lg(T) + 1.4$ (800 ... 3000 K) [4]	
{Reaction: decomposition $2/3\text{H}_2\text{O}(\text{g}) = 2/3\text{H}_2(\text{g}) + 1/3\text{O}_2(\text{g})$ }	

H₂O₂ (l)	Hydrogen Peroxide	H₂O₂ (l)
mp = 273 K (0 °C)		bp = 425 K (152 °C)
$\Delta H_{298}^0 = -187.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 109.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
H₂O₂ (g)	Hydrogen Peroxide	H₂O₂ (g)
$\Delta H_{298}^0 = -135.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 234.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.72 + 19.1 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
H₂O₂Pb (s) Pb(OH) ₂ (s)	Lead(II) Hydroxide	H₂O₂Pb (s) Pb(OH) ₂ (s)
$\Delta H_{298}^0 = -516 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = [102.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [130]
$C_p^0 = [88.70] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [188]		
H₂O₂Sr (s) Sr(OH) ₂ (s)	Strontium Hydroxide	H₂O₂Sr (s) Sr(OH) ₂ (s)
mp = 783 K (510 °C)		
$\Delta H_{298}^0 = -968.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 97.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.23 + 133.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 783 K) [4]		
H₂O₂Sr (s) Sr(OH) ₂ (s)	Strontium Hydroxide	H₂O₂Sr (s) Sr(OH) ₂ (s)
$\Delta H_{783}^0 = -916.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{783}^0 = 195.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₂O₂Sr (l) Sr(OH) ₂ (l)	Strontium Hydroxide	H₂O₂Sr (l) Sr(OH) ₂ (l)
$\Delta H_{783}^0 = -895.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{783}^0 = 222.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 157.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (783 K) [4]		

H₂O₂Sr (l) Sr(OH) ₂ (l)	Strontium Hydroxide	H₂O₂Sr (l) Sr(OH) ₂ (l)
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$$\Delta H_{298}^0 = -957.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 108.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

H₂O₂Sr (g) Sr(OH) ₂ (g)	Strontium Hydroxide	H₂O₂Sr (g) Sr(OH) ₂ (g)
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$$\Delta H_{298}^0 = -595.8 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 305 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 76.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

H₂O₃Si (g) SiO(OH) ₂ (g)	Silicic Acid	H₂O₃Si (g) SiO(OH) ₂ (g)
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$$\Delta H_{298}^0 = -891.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [252]$$

$$S_{298}^0 = [260.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [15]$$

H₂O₄S (l) H ₂ SO ₄ (l)	Sulfuric Acid	H₂O₄S (l) H ₂ SO ₄ (l)
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$$\text{mp} = 283 \text{ K} (10 \text{ }^\circ\text{C})$$

$$\text{bp} = 608 \text{ K} (335 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -814 \pm 0.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 156.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 80.84 + 193.72 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 608 \text{ K}) [4]$$

$$\lg(p, K) = -5.27 \cdot 10^3 \cdot T^{-1} - 8.41 \cdot \lg(T) + 32.09 (298 \dots 608 \text{ K}) [4]$$

{Reaction: evaporation}

H₂O₄S (g) H ₂ SO ₄ (g)	Sulfuric Acid	H₂O₄S (g) H ₂ SO ₄ (g)
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$$\Delta H_{298}^0 = -735.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 298.8 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 117.6 + 17.18 \cdot 10^{-3} \cdot T - 3.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

H₂O₄W (s) H ₂ WO ₄ (s)	Tungstic Acid	H₂O₄W (s) H ₂ WO ₄ (s)
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$$\Delta H_{298}^0 = -1131.8 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 144.8 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 62.76 + 167.36 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 393 \text{ K}) [4]$$

H₂O₄W (g) H ₂ WO ₄ (g)	Tungstic Acid	H₂O₄W (g) H ₂ WO ₄ (g)
$\Delta H_{298}^0 = -905.8 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 352 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 132.33 + 11.94 \cdot 10^{-3} \cdot T - 3.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
H₂O₅SZn (s) ZnSO ₄ · H ₂ O (s)	Zinc Sulfate Monohydrate	H₂O₅SZn (s) ZnSO ₄ · H ₂ O (s)
$\Delta H_{298}^0 = -1301.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 145.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
H₂P (g) PH ₂ (g)	Phosphino	H₂P (g) PH ₂ (g)
$\Delta H_{298}^0 = 108.5 \pm 96.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 212.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₂Pr (s) PrH ₂ (s)	Praseodymium(II) Hydride	H₂Pr (s) PrH ₂ (s)
$\Delta H_{298}^0 = -200 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 56.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.48 + 18.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		
H₂S (g)	Hydrogen Sulfide	H₂S (g)
mp = 188 K (-85 °C)		bp = 213 K (-60 °C)
$\Delta H_{298}^0 = -20.5 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 205.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.91 + 10.69 \cdot 10^{-3} \cdot T - 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -3.11 \cdot 10^3 \cdot T^{-1} + 0.08 \cdot \lg(T) + 1.43$ (717 ... 2000 K) [4]		
{Reaction:decomposition 2/3H ₂ S(g) = 2/3H ₂ (g) + 1/3S ₂ (g)}		
H₂S₂ (l)	Hydrogen Disulfide	H₂S₂ (l)
$\Delta H_{298}^0 = -18.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 161.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 84.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

H₂S₂ (g)	Hydrogen Disulfide	H₂S₂ (g)
$\Delta H_{298}^0 = 17.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 266.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.38 + 16.18 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
H₂S₃ (l) S ₃ H ₂ (l)	Hydrogen Trisulfide	H₂S₃ (l) S ₃ H ₂ (l)
$\Delta H_{298}^0 = -15.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
$C_p^0 = 110.24 + 43.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (237 ... 296 K) [5]		
H₂S₃ (g) S ₃ H ₂ (g)	Hydrogen Trisulfide	H₂S₃ (g) S ₃ H ₂ (g)
$\Delta H_{298}^0 = 30.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
H₂S₄ (l) S ₄ H ₂ (l)	Hydrogen Tetrasulfide	H₂S₄ (l) S ₄ H ₂ (l)
$\Delta H_{298}^0 = -12.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
$C_p^0 = 136.52 + 61.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (246 ... 293 K) [5]		
H₂S₄ (g) S ₄ H ₂ (g)	Hydrogen Tetrasulfide	H₂S₄ (g) S ₄ H ₂ (g)
$\Delta H_{298}^0 = 44.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
H₂S₅ (l) S ₅ H ₂ (l)	Hydrogen Pentasulfide	H₂S₅ (l) S ₅ H ₂ (l)
$\Delta H_{298}^0 = -10.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
$C_p^0 = 155.18 + 105.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (244 ... 293 K) [5]		
H₂S₅ (g) S ₅ H ₂ (g)	Hydrogen Pentasulfide	H₂S₅ (g) S ₅ H ₂ (g)
$\Delta H_{298}^0 = 58 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		

H₂S₆ (l) S ₆ H ₂ (l)	Hydrogen Hexasulfide	H₂S₆ (l) S ₆ H ₂ (l)
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$$\Delta H_{298}^0 = -8.2 \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$C_p^0 = 170.37 + 154.22 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (247 \dots 313 \text{ K}) [5]$$

H₂Se (g)	Hydrogen Selenide	H₂Se (g)
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$$\text{mp} = 219 \text{ K} (-54 \text{ }^\circ\text{C})$$

$$\text{bp} = 232 \text{ K} (-41 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 29.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 218.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 31.76 + 14.64 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

H₂Sr (s) SrH ₂ (s)	Strontium(II) Hydride	H₂Sr (s) SrH ₂ (s)
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$$\Delta H_{298}^0 = -180 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 49.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 33.47 + 22.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1228 \text{ K}) [4]$$

H₂Te (g)	Hydrogen Telluride	H₂Te (g)
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$$\text{mp} = 222 \text{ K} (-51 \text{ }^\circ\text{C})$$

$$\text{bp} = 271 \text{ K} (-2 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 99.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 229 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 35.48 + 12.05 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

H₂Th (s) ThH ₂ (s)	Thorium(II) Hydride	H₂Th (s) ThH ₂ (s)
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$$\Delta H_{298}^0 = -143.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 59.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 52.72 + 11.26 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

H₂Ti (s) TiH ₂ (s)	Titanium(II) Hydride	H₂Ti (s) TiH ₂ (s)
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$$\Delta H_{298}^0 = -144.4 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 29.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.52 + 33.92 \cdot 10^{-3} \cdot T - 1.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 900 \text{ K}) [4]$$

H₂Y (s) YH ₂ (s)	Yttrium Hydride	H₂Y (s) YH ₂ (s)
$\Delta H_{298}^0 = -221.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 38.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.8 + 21.26 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
H₂Zr (s) ZrH ₂ (s)	Zirconium Hydride	H₂Zr (s) ZrH ₂ (s)
$\Delta H_{298}^0 = -169.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 39.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.52 + 33.92 \cdot 10^{-3} \cdot T - 1.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 960 K) [4]		
H₃ISi (g) SiH ₃ I (g)	Iodosilane	H₃ISi (g) SiH ₃ I (g)
$\Delta H_{298}^0 = -2.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₃LaO₃ (s) La(OH) ₃ (s)	Lanthanum Hydroxide	H₃LaO₃ (s) La(OH) ₃ (s)
$\Delta H_{298}^0 = -1415.5 \pm 1.5 \text{ kJ}\cdot\text{mol}^{-1}$ [95]		$S_{298}^0 = 142.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
H₃N (g) NH ₃ (g)	Ammonia	H₃N (g) NH ₃ (g)
mp = 195 K (-78 °C)		bp = 240 K (-33 °C)
$\Delta H_{298}^0 = -45.9 \pm 0.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 192.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.32 + 18.66 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
$\lg(p, K) = -1.15 \cdot 10^3 \cdot T^{-1} + 0.66 \cdot \lg(T) + 0.78$ (298 ... 1500 K) [4]		
{Reaction: decomposition 1/2NH ₃ (g) = 1/4N ₂ (g) + 3/4H ₂ (g)}		
H₃O₃Sc (s) Sc(OH) ₃ (s)	Scandium Hydroxide	H₃O₃Sc (s) Sc(OH) ₃ (s)
$\Delta H_{298}^0 = -1364 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]

H₃O₄P (s) H ₃ PO ₄ (s)	Orthophosphoric Acid	H₃O₄P (s) H ₃ PO ₄ (s)
mp = 316 K (43 °C)		
$\Delta H_{298}^0 = -1279 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 110.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.87 + 189.12 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 316 K) [4]		
H₃O₄P (s) H ₃ PO ₄ (s)	Orthophosphoric Acid	H₃O₄P (s) H ₃ PO ₄ (s)
$\Delta H_{316}^0 = -1277.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{316}^0 = 116.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₃O₄P (l) H ₃ PO ₄ (l)	Orthophosphoric Acid	H₃O₄P (l) H ₃ PO ₄ (l)
$\Delta H_{316}^0 = -1264.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{316}^0 = 157.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 200.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (316 K) [4]		
H₃O₄P (l) H ₃ PO ₄ (l)	Orthophosphoric Acid	H₃O₄P (l) H ₃ PO ₄ (l)
$\Delta H_{298}^0 = -1271.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 150.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 145 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₃P (g) PH ₃ (g)	Phosphine	H₃P (g) PH ₃ (g)
mp = 141 K (-132 °C)		bp = 186 K (-87 °C)
$\Delta H_{298}^0 = 5.4 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 210.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 51.4 + 14.85 \cdot 10^{-3} \cdot T - 2.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 317 K) [4]		
H₃Sb (g) SbH ₃ (g)	Antimony(III) Hydride	H₃Sb (g) SbH ₃ (g)
mp = 185 K (-88 °C)		bp = 256 K (-17 °C)
$\Delta H_{298}^0 = 145.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 233.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 50.5 + 18.7 \cdot 10^{-3} \cdot T - 1.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		

H₃U (s) UH ₃ (s)	Uranium Hydride beta	H₃U (s) UH ₃ (s)
$\Delta H_{298}^0 = -127 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 63.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.39 + 42.34 \cdot 10^{-3} \cdot T + 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 705 K) [4]		
H₃Y (s) YH ₃ (s)	Yttrium Hydride	H₃Y (s) YH ₃ (s)
$\Delta H_{298}^0 = -265.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 41.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.74 + 15.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 686 K) [4]		
H₄IN (s) NH ₄ I (s)	Ammonium Iodide	H₄IN (s) NH ₄ I (s)
mp = 824 K (551 °C)		bp = 620 K (347 °C)
$\Delta H_{298}^0 = -202.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 113 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 60.25 + 71.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 620 K) [4]		
$\lg(p, K) = -4.94 \cdot 10^3 \cdot T^{-1} - 1.35 \cdot \lg(T) + 11.43$ (298 ... 620 K) [4]		
{Reaction: decomposition 1/2NH ₄ I(s) = 1/2NH ₃ (g) + 1/2HI(g)}		
H₄IP (s) PH ₄ I (s)	Phosphonium Iodide	H₄IP (s) PH ₄ I (s)
$\Delta H_{298}^0 = -70 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
H₄NO₃V (s) NH ₄ VO ₃ (s)	Ammonium Vanadate	H₄NO₃V (s) NH ₄ VO ₃ (s)
$\Delta H_{298}^0 = -1053 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 141 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
H₄NO₄Re (s) NH ₄ ReO ₄ (s)	Ammonium Perrhenate	H₄NO₄Re (s) NH ₄ ReO ₄ (s)
$\Delta H_{298}^0 = -945.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 232.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.12 + 112.45 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		

H₄N₂ (l) N ₂ H ₄ (l)	Hydrazine	H₄N₂ (l) N ₂ H ₄ (l)
mp = 275 K (2 °C)		bp = 387 K (114 °C)
$\Delta H_{298}^0 = 50.6 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 121.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.3 + 84.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 387 K) [4]		
$\lg(p, K) = -3.06 \cdot 10^3 \cdot T^{-1} - 5.58 \cdot \lg(T) + 22.35$ (298 ... 387 K) [4]		
{Reaction: evaporation}		
H₄N₂ (g) N ₂ H ₄ (g)	Hydrazine	H₄N₂ (g) N ₂ H ₄ (g)
$\Delta H_{298}^0 = 95.4 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 238.7 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.28 + 42.51 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate alpha	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
mp = 443 K (170 °C)		
$\Delta H_{298}^0 = -365.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.13 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 305 K) [4]		
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate alpha	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{305}^0 = -364.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{305}^0 = 154.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate beta	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{305}^0 = -362.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{305}^0 = 159.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.13 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (305 ... 357 K) [4]		
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate beta	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{357}^0 = -355.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{357}^0 = 182.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate gamma	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{357}^0 = -353.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 71.13 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (357 ... 398 K) [4]		$S_{357}^0 = 186.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate gamma	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{398}^0 = -347.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{398}^0 = 203.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate delta	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{398}^0 = -343.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 71.13 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (398 ... 443 K) [4]		$S_{398}^0 = 214.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄N₂O₃ (s) NH ₄ NO ₃ (s)	Ammonium Nitrate delta	H₄N₂O₃ (s) NH ₄ NO ₃ (s)
$\Delta H_{443}^0 = -335.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{443}^0 = 232 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄N₂O₃ (l) NH ₄ NO ₃ (l)	Ammonium Nitrate	H₄N₂O₃ (l) NH ₄ NO ₃ (l)
$\Delta H_{443}^0 = -296.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 188.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (443 K) [4]		$S_{443}^0 = 319.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
H₄O₅S (l) H ₂ SO ₄ · H ₂ O (l)	Sulfuric Acid Monohydrate	H₄O₅S (l) H ₂ SO ₄ · H ₂ O (l)
$\Delta H_{298}^0 = -1127.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 214.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 211.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

H₄O₆SZn (s)	Zinc Sulfate	H₄O₆SZn (s)
ZnSO ₄ · 2H ₂ O (s)	Dihydrate	ZnSO ₄ · 2H ₂ O (s)

$$\Delta H_{298}^0 = -1596 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 198.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

H₄Si (g)	Silane	H₄Si (g)
SiH ₄ (g)		SiH ₄ (g)

$$\text{mp} = 88 \text{ K } (-185 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 34.3 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 14.26 + 110.28 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} - 40 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$\lg(p, \text{K}) = -2.04 \cdot 10^3 \cdot T^{-1} - 2.31 \cdot \lg(T) + 2.59 (400 \dots 1000 \text{ K}) [4]$$

{Reaction: formation Si(s) + 2H₂(g) = SiH₄(g)}

$$\text{bp} = 161 \text{ K } (-112 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 204.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

H₄Sn (g)	Tin(IV) Hydride	H₄Sn (g)
SnH ₄ (g)		SnH ₄ (g)

$$\text{mp} = 123 \text{ K } (-150 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 162.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 51.8 + 37.66 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 450 \text{ K}) [4]$$

$$\text{bp} = 221 \text{ K } (-52 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 228.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

H₆O₆S (l)	Sulfuric Acid	H₆O₆S (l)
H ₂ SO ₄ · 2H ₂ O (l)	Dihydrate	H ₂ SO ₄ · 2H ₂ O (l)

$$\Delta H_{298}^0 = -1427.1 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 261.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 276.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

H₆Si₂ (g)	Disilane	H₆Si₂ (g)
Si ₂ H ₆ (g)		Si ₂ H ₆ (g)

$$\text{mp} = 141 \text{ K } (-132 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 80.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 53.93 + 136.4 \cdot 10^{-3} \cdot T - 1.03 \cdot 10^6 \cdot T^{-2} - 44.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$\text{bp} = 258 \text{ K } (-15 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 274.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

H₈I₅LaN₂ (s) (NH ₄) ₂ LaI ₅ (s)	Ammonium Lanthanum Iodide	H₈I₅LaN₂ (s) (NH ₄) ₂ LaI ₅ (s)
$\Delta H_{298}^0 = -1125.1 \pm 16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [19]		$S_{298}^0 = 483.3 \pm 18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [19]
H₈I₅N₂Nd (s) (NH ₄) ₂ NdI ₅ (s)	Ammonium Neodymium Iodide	H₈I₅N₂Nd (s) (NH ₄) ₂ NdI ₅ (s)
$\Delta H_{298}^0 = -1091.6 \pm 17.6 \text{ kJ}\cdot\text{mol}^{-1}$ [29]		$S_{298}^0 = 478.2 \pm 19.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [29]
H₈N₂O₄S (s) (NH ₄) ₂ SO ₄ (s)	Ammonium Sulfate	H₈N₂O₄S (s) (NH ₄) ₂ SO ₄ (s)
$\Delta H_{298}^0 = -1180.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 220.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 103.55 + 280.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 630 K) [4]		
H₈O₇S (l) H ₂ SO ₄ · 3H ₂ O (l)	Sulfuric Acid Trihydrate	H₈O₇S (l) H ₂ SO ₄ · 3H ₂ O (l)
$\Delta H_{298}^0 = -1720.4 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 345.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 319.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₁₀O₈S (l) H ₂ SO ₄ · 4H ₂ O (l)	Sulfuric Acid Tetrahydrate	H₁₀O₈S (l) H ₂ SO ₄ · 4H ₂ O (l)
$\Delta H_{298}^0 = -2011.2 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 414.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 386.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
H₁₂I₆N₃Nd (s) (NH ₄) ₃ NdI ₆ (s)	Ammonium Neodymium Iodide	H₁₂I₆N₃Nd (s) (NH ₄) ₃ NdI ₆ (s)
$\Delta H_{298}^0 = -1283.2 \pm 20.5 \text{ kJ}\cdot\text{mol}^{-1}$ [29]		$S_{298}^0 = 639.3 \pm 23.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [29]
H₁₂I₆N₃Y (s) (NH ₄) ₃ YI ₆ (s)	Ammonium Yttrium Iodide	H₁₂I₆N₃Y (s) (NH ₄) ₃ YI ₆ (s)
$\Delta H_{298}^0 = -1259 \pm 23 \text{ kJ}\cdot\text{mol}^{-1}$ [22]		$S_{298}^0 = 564 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [22]

H₁₂O₁₀SZn (s) ZnSO ₄ · 6H ₂ O (s)	Zinc Sulfate Hexahydrate	H₁₂O₁₀SZn (s) ZnSO ₄ · 6H ₂ O (s)
$\Delta H_{298}^0 = -2779 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 358 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 355.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
H₁₄O₁₁SZn (s) ZnSO ₄ · 7H ₂ O (s)	Zinc Sulfate Heptahydrate	H₁₄O₁₁SZn (s) ZnSO ₄ · 7H ₂ O (s)
$\Delta H_{298}^0 = -3078.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 379.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 388.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
H₁₅Th₄ (s) Th ₄ H ₁₅ (s)	Thorium Hydride	H₁₅Th₄ (s) Th ₄ H ₁₅ (s)
$\Delta H_{298}^0 = -843.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 304 + 57.99 \cdot 10^{-3} \cdot T + 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 565 K) [4]		$S_{298}^0 = 217.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
He (g)	Helium	He (g)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 126.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Hf (s)	Hafnium alpha	Hf (s)
mp = 2470 K (2197 °C) $\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 23.47 + 7.62 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2013 K) [4]		bp = 4872 K (4599 °C) $S_{298}^0 = 43.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Hf (s)	Hafnium alpha	Hf (s)
$\Delta H_{2013}^0 = 55.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2013}^0 = 101.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Hf (s)	Hafnium beta	Hf (s)
$\Delta H^0_{2013} = 62.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{2013} = 104.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 14.35 + 9.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2013 ... 2470 K) [4]		
$\lg(p, K) = -31.62 \cdot 10^3 \cdot T^{-1} - 0.2 \cdot \lg(T) + 7.47$ (2013 ... 2470 K) [4]		
{Reaction: evaporation as Hf(g)}		
Hf (s)	Hafnium beta	Hf (s)
$\Delta H^0_{2470} = 77.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{2470} = 111.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Hf (l)	Hafnium	Hf (l)
$\Delta H^0_{2470} = 101.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{2470} = 121.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2470 K) [4]		
Hf (s)	Hafnium beta	Hf (s)
$\Delta H^0_{298} = 18.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 61.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 17.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Hf (l)	Hafnium	Hf (l)
$\Delta H^0_{298} = 46.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 71.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 17.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Hf (g)	Hafnium	Hf (g)
$\Delta H^0_{298} = 618.4 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 186.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 12.97 + 16.32 \cdot 10^{-3} \cdot T + 0.3 \cdot 10^6 \cdot T^{-2} - 3.69 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
HfI₂ (s)	Hafnium(II) Iodide	HfI₂ (s)
$\Delta H^0_{298} = -272 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 160.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.84 - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

HfI₄ (s)	Hafnium(IV) Iodide	HfI₄ (s)
$\Delta H_{298}^0 = -493.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 269.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 135.02 + 31.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 664 K) [4]		
$\lg(p, K) = -7.42 \cdot 10^3 \cdot T^{-1} - 5.48 \cdot \lg(T) + 26.64$ (400 ... 664 K) [4]		
{Reaction: evaporation as HfI ₄ (g)}		
HfI₄ (g)	Hafnium(IV) Iodide	HfI₄ (g)
$\Delta H_{298}^0 = -366.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 472 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.45 + 0.08 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HfLi₂O₃ (s)	Lithium Hafnate	HfLi₂O₃ (s)
Li ₂ O · HfO ₂ (s)		Li ₂ O · HfO ₂ (s)
mp = 1920 K (1647 °C)		
$\Delta H_{298}^0 = -1774 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 96.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 134.73 + 34.39 \cdot 10^{-3} \cdot T - 2.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1920 K) [4]		
HfN (s)	Hafnium Nitride	HfN (s)
$\Delta H_{298}^0 = -373.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 48.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.77 + 9.32 \cdot 10^{-3} \cdot T - 0.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HfO₂ (s)	Hafnium(IV) Oxide alpha	HfO₂ (s)
mp = 3083 K (2810 °C)		
$\Delta H_{298}^0 = -1117.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 59.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 72.11 + 9.05 \cdot 10^{-3} \cdot T - 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1973 K) [4]		
HfO₂ (s)	Hafnium(IV) Oxide alpha	HfO₂ (s)
$\Delta H_{1973}^0 = -983.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1973}^0 = 203.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

HfO₂ (s)	Hafnium(IV) Oxide beta	HfO₂ (s)
$\Delta H_{1973}^0 = -973.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1973 K) [4]		$S_{1973}^0 = 208.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HfO₃Sr (s) SrO · HfO ₂ (s)	Strontium Hafnate	HfO₃Sr (s) SrO · HfO ₂ (s)
mp = 3163 K (2890 °C) $\Delta H_{298}^0 = -1787.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 122.17 + 13.81 \cdot 10^{-3} \cdot T - 1.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HfS₂ (s)	Hafnium Sulfide	HfS₂ (s)
$\Delta H_{298}^0 = [-585.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
HfS₃ (s)	Hafnium Sulfide	HfS₃ (s)
$\Delta H_{298}^0 = [-623.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [96.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Hg (l)	Mercury	Hg (l)
mp = 234 K (-39 °C) $\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 28.79 - 2.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -629 K) [4] $\lg(p, K) = -3.31 \cdot 10^3 \cdot T^{-1} - 0.81 \cdot \lg(T) + 7.53$ (298 ... 629 K) [4] {Reaction: evaporation}		bp = 629 K (356 °C) $S_{298}^0 = 75.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Hg (g)	Mercury	Hg (g)
$\Delta H_{298}^0 = 61.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 175 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
HgI (g)	Mercury(I) Iodide	HgI (g)
$\Delta H_{298}^0 = 133.5 \pm 4.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.41 + 2.4 \cdot 10^{-3} \cdot T - 0.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 280.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

HgI₂ (s)	Mercury(II) iodide alpha	HgI₂ (s)
mp = 530 K (257 °C)		bp = 626 K (353 °C)
$\Delta H_{298}^0 = -105.4 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 181.3 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.2 + 42.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 402 K) [4]		
$\lg(p,K) = -4.96 \cdot 10^3 \cdot T^{-1} - 2.23 \cdot \lg(T) + 14.59$ (298 ... 402 K) [4]		
{Reaction: evaporation as HgI ₂ (g)}		
HgI₂ (s)	Mercury(II) iodide alpha	HgI₂ (s)
$\Delta H_{402}^0 = -97.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{402}^0 = 205.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HgI₂ (s)	Mercury(II) iodide beta	HgI₂ (s)
$\Delta H_{402}^0 = -94.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{402}^0 = 211.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 84.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (402 K) [4]		
$\lg(p,K) = -4.9 \cdot 10^3 \cdot T^{-1} - 2.68 \cdot \lg(T) + 15.62$ (402 ... 530 K) [4]		
{Reaction: evaporation as HgI ₂ (g)}		
HgI₂ (s)	Mercury(II) iodide beta	HgI₂ (s)
$\Delta H_{530}^0 = -83.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{530}^0 = 234.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HgI₂ (l)	Mercury(II) iodide	HgI₂ (l)
$\Delta H_{530}^0 = -64.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{530}^0 = 270.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (530 K) [4]		
$\lg(p,K) = -4.4 \cdot 10^3 \cdot T^{-1} - 4.82 \cdot \lg(T) + 20.51$ (530 ... 626 K) [4]		
{Reaction: evaporation as HgI ₂ (g)}		
HgI₂ (l)	Mercury(II) iodide	HgI₂ (l)
$\Delta H_{298}^0 = -87.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 215.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (530 K) [4]		

HgI₂ (g)	Mercury(II) Iodide	HgI₂ (g)
$\Delta H_{298}^0 = -16.1 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 336.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.34 + 0.01 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HgMg (s) MgHg (s)	Magnesium Mercury	HgMg (s) MgHg (s)
$\Delta H_{298}^0 = -56.4 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [108.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [166]
HgMg₂ (s) Mg ₂ Hg (s)	Magnesium Mercury	HgMg₂ (s) Mg ₂ Hg (s)
$\Delta H_{298}^0 = -79.8 \pm 2.8 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [141.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [164]
HgMg₃ (s) Mg ₃ Hg (s)	Magnesium Mercury	HgMg₃ (s) Mg ₃ Hg (s)
$\Delta H_{298}^0 = -84.2 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [174] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [162]
HgO (s)	Mercury(II) Oxide	HgO (s)
$\Delta H_{298}^0 = -90.8 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 70.3 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.49 + 12.97 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 720 K) [4]		
$\lg(p, K) = -5.45 \cdot 10^3 \cdot T^{-1} - 1.12 \cdot \lg(T) + 10.5$ (400 ... 720 K) [4]		
{Reaction: decomposition $2/3\text{HgO}(s) = 2/3\text{Hg}(g) + 1/3\text{O}_2(g)$ }		
HgO (g)	Mercury(II) Oxide	HgO (g)
$\Delta H_{298}^0 = 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 238.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.69 + 0.83 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HgO₃Se (s) HgSeO ₃ (s)	Mercury(II) Selenite	HgO₃Se (s) HgSeO ₃ (s)
mp = 738 K (465 °C)		
$\Delta H_{298}^0 = -365.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 162.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.68 + 61.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 738 K) [4]		

HgO₄S (s) HgSO ₄ (s)	Mercury(II) Sulfate	HgO₄S (s) HgSO ₄ (s)
$\Delta H_{298}^0 = -707.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 58.58 + 146.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 941 K) [4]		
HgS (s)	Mercury(II) Sulfide red	HgS (s)
$\Delta H_{298}^0 = -53.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 82.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.77 + 15.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 618 K) [4]		
HgS (s)	Mercury(II) Sulfide red	HgS (s)
$\Delta H_{618}^0 = -37.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{618}^0 = 119.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
HgS (s)	Mercury(II) Sulfide black	HgS (s)
$\Delta H_{618}^0 = -33.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{618}^0 = 125.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.02 + 15.19 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (618 ... 862 K) [4]		
HgS (g)	Mercury(II) Sulfide	HgS (g)
$\Delta H_{298}^0 = 127.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 254.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.38 + 0.02 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
HgSe (s)	Mercury(II) Selenide	HgSe (s)
mp = 1043 K (770 °C)		
$\Delta H_{298}^0 = -54 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.95 + 15.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 969 K) [4]		
HgSe (g)	Mercury(II) Selenide	HgSe (g)
$\Delta H_{298}^0 = 167.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 267.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 - 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 969 K) [4]		

HgTe (s)	Mercury(II) Telluride	HgTe (s)
$\Delta H_{298}^0 = -35.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 115.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 52.1 + 9.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 934 K) [4]		
HgTe (g)	Mercury(II) Telluride	HgTe (g)
$\Delta H_{298}^0 = 184.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 275 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.41 - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Hg₂I₂ (s)	Mercury(I) Iodide	Hg₂I₂ (s)
mp = 563 K (290 °C)		
$\Delta H_{298}^0 = -122 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 245.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 98.45 + 33.01 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 563 K) [4]		
Hg₂I₂ (s)	Mercury(I) Iodide	Hg₂I₂ (s)
$\Delta H_{563}^0 = -92.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{563}^0 = 316.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Hg₂I₂ (l)	Mercury(I) Iodide	Hg₂I₂ (l)
$\Delta H_{563}^0 = -65.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{563}^0 = 364.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (563 K) [4]		
Hg₂I₂ (l)	Mercury(I) Iodide	Hg₂I₂ (l)
$\Delta H_{298}^0 = -98.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 273.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 136.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Hg₂Mg (s) MgHg ₂ (s)	Magnesium Mercury	Hg₂Mg (s) MgHg ₂ (s)
$\Delta H_{298}^0 = -60.5 \pm 4.3 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [184.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [167]

Hg₂Mg₅ (s) Mg ₅ Hg ₂ (s)	Magnesium Mercury	Hg₂Mg₅ (s) Mg ₅ Hg ₂ (s)
$\Delta H_{298}^0 = -166 \pm 6.8 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [315.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [163]
Hg₂O₄S (s) Hg ₂ SO ₄ (s)	Mercury(I) Sulfate	Hg₂O₄S (s) Hg ₂ SO ₄ (s)
$\Delta H_{298}^0 = -743.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		$S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Hg₃Mg₅ (s) Mg ₅ Hg ₃ (s)	Magnesium Mercury	Hg₃Mg₅ (s) Mg ₅ Hg ₃ (s)
$\Delta H_{298}^0 = -217.1 \pm 7.3 \text{ kJ}\cdot\text{mol}^{-1}$ [161]		$S_{298}^0 = [391.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [165]
Ho (s)	Holmium alpha	Ho (s)
mp = 1743 K (1470 °C) $\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 32.31 - 17.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1701 K) [4] $\lg(p, K) = -16.72 \cdot 10^3 \cdot T^{-1} - 2.66 \cdot \lg(T) + 15.07$ (1100 ... 1701 K) [4] {Reaction: evaporation as Ho(g)}		bp = 2964 K (2691 °C) $S_{298}^0 = 75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ho (s)	Holmium alpha	Ho (s)
$\Delta H_{1701}^0 = 48.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 52.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1701 K) [2]		$S_{1701}^0 = 130.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Ho (s)	Holmium beta	Ho (s)
$\Delta H_{1701}^0 = 53.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1701 K) [2] $\lg(p, K) = -14.96 \cdot 10^3 \cdot T^{-1} - 0.64 \cdot \lg(T) + 7.51$ (1701 ... 1743 K) [4] {Reaction: evaporation as Ho(g)}		$S_{1701}^0 = 133.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Ho (s)	Holmium beta	Ho (s)
$\Delta H_{1743}^0 = 54.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1743}^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1743 K) [2]		
Ho (l)	Holmium	Ho (l)
$\Delta H_{1743}^0 = 66.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1743}^0 = 141 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 43.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1743 K) [2]		
$\lg(p, K) = -15.74 \cdot 10^3 \cdot T^{-1} - 2.47 \cdot \lg(T) + 13.88$ (1743 ... 2000 K) [4]		
{Reaction: evaporation as Ho(g)}		
Ho (g)	Holmium	Ho (g)
$\Delta H_{298}^0 = 300.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 195.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.05 - 2.95 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} + 1.95 \cdot 10^{-6} \cdot T^2$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
Ho₃ (s)	Holmium(III) iodide	Ho₃ (s)
mp = 1283 K (1010 °C)		bp = 1570 K (1297 °C)
$\Delta H_{298}^0 = -622.9 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [217.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
$C_p^0 = [102.09] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [188]		
Ho₃ (g)	Holmium(III) iodide	Ho₃ (g)
$\Delta H_{298}^0 = -346.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 432.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.89 + 1.64 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2}$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
HoS (s)	Holmium Sulfide	HoS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
HoS (g)	Holmium Sulfide	HoS (g)
$\Delta H_{298}^0 = 148.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [267.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.13] + [0.15] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2}$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [5]		

HoSe (s)	Holmium Selenide	HoSe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
HoSe (g)	Holmium Selenide	HoSe (g)
$\Delta H_{298}^0 = 197.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [278] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.29] + [0.07] \cdot 10^{-3} \cdot T + [-0.18] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
HoTe (s)	Holmium Telluride	HoTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
HoTe (g)	Holmium Telluride	HoTe (g)
$\Delta H_{298}^0 = 259.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [286.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [8.66] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [5]		
Ho₂O₃ (s)	Holmium(III) Oxide	Ho₂O₃ (s)
mp = 2633 K (2360 °C)		
$\Delta H_{298}^0 = -1880.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 158.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 127.04 + 5.57 \cdot 10^{-3} \cdot T - 1.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Ho₂S₃ (s)	Holmium Sulfide	Ho₂S₃ (s)
$\Delta H_{298}^0 = [-1225.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [207.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ho₂Se₃ (s)	Holmium Selenide	Ho₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [244.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ho₂Te₃ (s)	Holmium Telluride	Ho₂Te₃ (s)
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [265.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

I (g)	Iodine	I (g)
$\Delta H_{298}^0 = 106.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 180.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.39 + 0.4 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

IIIn (s)	Indium(I) Iodide	IIIn (s)
InI (s)		InI (s)
mp = 638 K (365 °C)		bp = 986 K (713 °C)
$\Delta H_{298}^0 = -115.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 123.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.12 + 12.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 638 K) [4]		

IIIn (s)	Indium(I) Iodide	IIIn (s)
InI (s)		InI (s)
$\Delta H_{638}^0 = -97.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{638}^0 = 164.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

IIIn (l)	Indium(I) Iodide	IIIn (l)
InI (l)		InI (l)
$\Delta H_{638}^0 = -81.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{638}^0 = 190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (638 K) [4]		

IIIn (g)	Indium(I) Iodide	IIIn (g)
InI (g)		InI (g)
$\Delta H_{298}^0 = 8.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 267.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.42 - 0.01 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

IK (s)	Potassium Iodide	IK (s)
KI (s)		KI (s)
mp = 954 K (681 °C)		bp = 1616 K (1343 °C)
$\Delta H_{298}^0 = -327.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.83 + 28.91 \cdot 10^{-3} \cdot T + 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 954 K) [4]		

IK (s)	Potassium Iodide	IK (s)
KI (s)		KI (s)
$\Delta H_{954}^0 = -289.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{954}^0 = 172.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

IK (l)	Potassium Iodide	IK (l)
KI (l)		KI (l)

$$\Delta H_{954}^0 = -265.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{954}^0 = 198.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 72.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (954 \text{ K}) [4]$$

IK (l)	Potassium Iodide	IK (l)
KI (l)		KI (l)

$$\Delta H_{298}^0 = -312.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 114.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 72.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

IK (g)	Potassium Iodide	IK (g)
KI (g)		KI (g)

$$\Delta H_{298}^0 = -125.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 258.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.41 + 0.88 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.15 \cdot 10^3 \cdot T^{-1} - 3.06 \cdot \lg(T) + 17.21 (700 \dots 954 \text{ K}) [4]$$

{Reaction: evaporation of KI(s)}

IKO₃ (s)	Potassium Iodate	IKO₃ (s)
KIO ₃ (s)		KIO ₃ (s)

$$\Delta H_{298}^0 = -501 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

$$C_p^0 = 106 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [7]$$

IKO₄ (s)	Potassium Periodate	IKO₄ (s)
KIO ₄ (s)		KIO ₄ (s)

$$\Delta H_{298}^0 = -467 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S_{298}^0 = 176 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

ILi (s)	Lithium Iodide	ILi (s)
Lil (s)		Lil (s)

$$\text{mp} = 742 \text{ K} (469 \text{ }^\circ\text{C})$$

$$\text{bp} = 1447 \text{ K} (1174 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -270.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 86.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 45.93 + 22.54 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 742 \text{ K}) [4]$$

ILi (s) Lil (s)	Lithium Iodide	ILi (s) Lil (s)
$\Delta H_{742}^0 = -245 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{742}^0 = 138.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ILi (l) Lil (l)	Lithium Iodide	ILi (l) Lil (l)
$\Delta H_{742}^0 = -230.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 63.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (742 K) [4]		$S_{742}^0 = 158 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ILi (l) Lil (l)	Lithium Iodide	ILi (l) Lil (l)
$\Delta H_{298}^0 = -258.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 63.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 98.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
ILi (g) Lil (g)	Lithium Iodide	ILi (g) Lil (g)
$\Delta H_{298}^0 = -91 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37 + 0.97 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4] $\lg(\rho, K) = -9.67 \cdot 10^3 \cdot T^{-1} - 2.86 \cdot \lg(T) + 16.1$ (600 ... 742 K) [4] {Reaction: evaporation of Lil(s)}		$S_{298}^0 = 232.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
IMg (g) Mgl (g)	Magnesium(I) Iodide	IMg (g) Mgl (g)
$\Delta H_{298}^0 = 24.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 37.35 + 2.09 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 252.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
IMo (g) Mol (g)	Molybdenum(I) Iodide	IMo (g) Mol (g)
$\Delta H_{298}^0 = 498.7 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 38.24 - 0.8 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} + 0.63 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 279 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

INO (g) NOI (g)	Nitrosyl Iodide	INO (g) NOI (g)
$\Delta H_{298}^0 = 112.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 283 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.78 + 3.59 \cdot 10^{-3} \cdot T - 0.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
INa (s) NaI (s)	Sodium Iodide	INa (s) NaI (s)
mp = 934 K (661 °C)		bp = 1577 K (1304 °C)
$\Delta H_{298}^0 = -287.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 98.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.95 + 25.42 \cdot 10^{-3} \cdot T + 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 934 K) [4]		
$\lg(p,K) = -11.15 \cdot 10^3 \cdot T^{-1} - 3.03 \cdot \lg(T) + 17.01$ (700 ... 934 K) [4]		
{Reaction: evaporation (total pressure)}		
INa (s) NaI (s)	Sodium Iodide	INa (s) NaI (s)
$\Delta H_{934}^0 = -250.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{934}^0 = 163.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
INa (l) NaI (l)	Sodium Iodide	INa (l) NaI (l)
$\Delta H_{934}^0 = -226.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{934}^0 = 189.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (934 K) [4]		
$\lg(p,K) = -10.07 \cdot 10^3 \cdot T^{-1} - 3.46 \cdot \lg(T) + 17.14$ (934 ... 1686 K) [4]		
{Reaction: evaporation (total pressure)}		
INa (l) NaI (l)	Sodium Iodide	INa (l) NaI (l)
$\Delta H_{298}^0 = -266.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 120.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
INa (g) NaI (g)	Sodium Iodide	INa (g) NaI (g)
$\Delta H_{298}^0 = -84.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 249 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.37 + 0.82 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

INaO₄ (s) NaIO ₄ (s)	Sodium Periodate	INaO₄ (s) NaIO ₄ (s)
$\Delta H_{298}^0 = -429 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 163 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
INi (g) NiI (g)	Nickel(I) Iodide	INi (g) NiI (g)
$\Delta H_{298}^0 = 246.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 270.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.5 + 0.85 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
IO (g)	Iodine Oxide	IO (g)
$\Delta H_{298}^0 = 126 \pm 18 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 239.6 \pm 1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
IO₂ (g) OIO (g)	Iodine Oxide	IO₂ (g) OIO (g)
$\Delta H_{298}^0 = 159.3 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 281.5 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
IO₂ (g) IOO (g)	Iodine Oxide	IO₂ (g) IOO (g)
$\Delta H_{298}^0 = 116.5 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 296.4 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
IO₃ (g)	Iodine Oxide	IO₃ (g)
$\Delta H_{298}^0 = 241.9 \pm 50 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 293 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
IO₃Re (g) ReO ₃ I (g)	Rhenium Iodide Oxide	IO₃Re (g) ReO ₃ I (g)
$\Delta H_{298}^0 = -443.9 \text{ kJ}\cdot\text{mol}^{-1}$ [49]		$S_{298}^0 = [334.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [49]
$C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

IPb (g)	Lead(I) iodide	IPb (g)
Pbl (g)		Pbl (g)

$$\Delta H_{298}^0 = 107.7 \pm 37.7 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 280.1 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.21 + 0.75 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

IRb (s)	Rubidium iodide	IRb (s)
Rbl (s)		Rbl (s)

$$\text{mp} = 929 \text{ K (656 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -331.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad \text{bp} = 1611 \text{ K (1338 } ^\circ\text{C)}$$

$$C_p^0 = 49.08 + 11.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 929 \text{ K}) [4] \qquad S_{298}^0 = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$\lg(p, K) = -11.03 \cdot 10^3 \cdot T^{-1} - 2.43 \cdot \lg(T) + 15.22 (700 \dots 929 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

IRb (s)	Rubidium iodide	IRb (s)
Rbl (s)		Rbl (s)

$$\Delta H_{929}^0 = -296.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{929}^0 = 181.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

IRb (l)	Rubidium iodide	IRb (l)
Rbl (l)		Rbl (l)

$$\Delta H_{929}^0 = -274.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{929}^0 = 205.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 66.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (929 \text{ K}) [4]$$

$$\lg(p, K) = -10.26 \cdot 10^3 \cdot T^{-1} - 3.37 \cdot \lg(T) + 17.17 (929 \dots 1611 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

IRb (g)	Rubidium iodide	IRb (g)
Rbl (g)		Rbl (g)

$$\Delta H_{298}^0 = -127.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 271.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.41 + 0.88 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

ISi (g)	Iodosilylidyne	ISi (g)
Sil (g)		Sil (g)

$$\Delta H_{298}^0 = 316.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 253.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 39.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

ISr (g)	Strontium(I) iodide	ISr (g)
SrI (g)		SrI (g)

$$\Delta H_{298}^0 = -30.5 \pm 83.7 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 272.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 37.4 + 0.66 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

ITi (g)	Titanium(I) iodide	ITi (g)
TiI (g)		TiI (g)

$$\Delta H_{298}^0 = 274.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 268.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.72 + 0.59 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1939 \text{ K}) [4]$$

ITl (s)	Thallium(I) iodide alpha	ITl (s)
TlI (s)		TlI (s)

$$\text{mp} = 715 \text{ K} (442 \text{ }^\circ\text{C}) \qquad \text{bp} = 1105 \text{ K} (832 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -123.7 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 127.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 48.37 + 13.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 451 \text{ K}) [4]$$

ITl (s)	Thallium(I) iodide alpha	ITl (s)
TlI (s)		TlI (s)

$$\Delta H_{451}^0 = -115.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{451}^0 = 149.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

ITl (s)	Thallium(I) iodide beta	ITl (s)
TlI (s)		TlI (s)

$$\Delta H_{451}^0 = -114.6 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{451}^0 = 151.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 32.31 + 47.15 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (451 \dots 715 \text{ K}) [4]$$

$$\lg(p, K) = -7.66 \cdot 10^3 \cdot T^{-1} - 2.74 \cdot \lg(T) + 15.71 (451 \dots 715 \text{ K}) [4]$$

{Reaction: evaporation (total pressure)}

ITl (s)	Thallium(I) iodide beta	ITl (s)
TlI (s)		TlI (s)

$$\Delta H_{715}^0 = -98.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{715}^0 = 179.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

ITl (l) Tll (l)	Thallium(I) iodide	ITl (l) Tll (l)
$\Delta H_{715}^0 = -84.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{715}^0 = 199.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (715 K) [4]		
$\lg(p, K) = -7.33 \cdot 10^3 \cdot T^{-1} - 4.18 \cdot \lg(T) + 19.35$ (715 ... 1105 K) [4]		
{Reaction: evaporation (total pressure)}		
ITl (g) Tll (g)	Thallium(I) iodide	ITl (g) Tll (g)
$\Delta H_{298}^0 = 16 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 274.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.4 - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
IZr (g) Zrl (g)	Zirconium(I) iodide	IZr (g) Zrl (g)
$\Delta H_{298}^0 = 402.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 275.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.38 + 0.93 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₂ (s)	Iodine	I₂ (s)
mp = 387 K (114 °C)		bp = 458 K (185 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 116.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 30.13 + 81.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 387 K) [4]		
$\lg(p, K) = -3.52 \cdot 10^3 \cdot T^{-1} - 2.02 \cdot \lg(T) + 13.38$ (298 ... 387 K) [4]		
{Reaction: evaporation as I ₂ (g)}		
I₂ (s)	Iodine	I₂ (s)
$\Delta H_{387}^0 = 5.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{387}^0 = 131.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₂ (l)	Iodine	I₂ (l)
$\Delta H_{387}^0 = 20.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{387}^0 = 171.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (387 K) [4]		
$\lg(p, K) = -3.23 \cdot 10^3 \cdot T^{-1} - 4.86 \cdot \lg(T) + 19.98$ (387 ... 458 K) [4]		
{Reaction: evaporation as I ₂ (g)}		

I₂ (l)	Iodine	I₂ (l)
$\Delta H_{298}^0 = 13.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 150.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 80.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
I₂ (g)	Iodine	I₂ (g)
$\Delta H_{298}^0 = 62.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 260.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.25 + 0.78 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₂In (g)	Indium Iodide	I₂In (g)
InI ₂ (g)		InI ₂ (g)
$\Delta H_{298}^0 = -23.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 351.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.17 + 0.03 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₂Ir (s)	Iridium(II) Iodide	I₂Ir (s)
IrI ₂ (s)		IrI ₂ (s)
$\Delta H_{298}^0 = -83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
I₂K₂ (g)	Potassium Iodide	I₂K₂ (g)
(KI) ₂ (g)		(KI) ₂ (g)
$\Delta H_{298}^0 = -422.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 395.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 83.14 - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -13.26 \cdot 10^3 \cdot T^{-1} - 5.29 \cdot \lg(T) + 25.72$ (700 ... 954 K) [4]		
{Reaction: evaporation of KI(s)}		
I₂Li₂ (g)	Lithium Iodide	I₂Li₂ (g)
(LiI) ₂ (g)		(LiI) ₂ (g)
$\Delta H_{298}^0 = -361.9 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 330.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.7 + 0.29 \cdot 10^{-3} \cdot T - 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -9.84 \cdot 10^3 \cdot T^{-1} - 4.84 \cdot \lg(T) + 22.62$ (600 ... 742 K) [4]		
{Reaction: evaporation of LiI(s)}		

I₂Mg (s)	Magnesium(II) Iodide	I₂Mg (s)
MgI ₂ (s)		MgI ₂ (s)

mp = 907 K (634 °C)

bp = 1255 K (982 °C)

 $\Delta H_{298}^0 = -367.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 129.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 76.1 + 13.45 \cdot 10^{-3} \cdot T - 0.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 907 K) [4] $\lg(p, K) = -11.17 \cdot 10^3 \cdot T^{-1} - 2.87 \cdot \lg(T) + 18.38$ (600 ... 907 K) [4]{Reaction: evaporation as MgI₂(g)}

I₂Mg (s)	Magnesium(II) Iodide	I₂Mg (s)
MgI ₂ (s)		MgI ₂ (s)

 $\Delta H_{907}^0 = -316.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{907}^0 = 220.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₂Mg (l)	Magnesium(II) Iodide	I₂Mg (l)
MgI ₂ (l)		MgI ₂ (l)

 $\Delta H_{907}^0 = -282.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{907}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 100.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (907 K) [4] $\lg(p, K) = -10.04 \cdot 10^3 \cdot T^{-1} - 4.61 \cdot \lg(T) + 22.29$ (907 ... 1255 K) [4]{Reaction: evaporation as MgI₂(g)}

I₂Mg (l)	Magnesium(II) Iodide	I₂Mg (l)
MgI ₂ (l)		MgI ₂ (l)

 $\Delta H_{298}^0 = -342.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 155.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 74.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

I₂Mg (g)	Magnesium(II) Iodide	I₂Mg (g)
MgI ₂ (g)		MgI ₂ (g)

 $\Delta H_{298}^0 = -160.3 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 317.5 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 62.12 + 0.14 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

I₂Mn (s)	Manganese(II) iodide	I₂Mn (s)
MnI ₂ (s)		MnI ₂ (s)

mp = 911 K (638 °C)

$$\Delta H_{298}^0 = -266.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 171.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

I₂Mn (g)	Manganese(II) iodide	I₂Mn (g)
MnI ₂ (g)		MnI ₂ (g)

$$\Delta H_{298}^0 = -58.8 \text{ kJ}\cdot\text{mol}^{-1} [58]$$

$$S_{298}^0 = 334 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [58]$$

I₂Mo (s)	Molybdenum(II) iodide	I₂Mo (s)
MoI ₂ (s)		MoI ₂ (s)

$$\Delta H_{298}^0 = -103.9 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 78.98 + 12.47 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1307 \text{ K}) [4]$$

$$S_{298}^0 = 149.7 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

bp = 1307 K (1034 °C)

I₂Mo (g)	Molybdenum(II) iodide	I₂Mo (g)
MoI ₂ (g)		MoI ₂ (g)

$$\Delta H_{298}^0 = 257.7 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 74.02 - 8.64 \cdot 10^{-3} \cdot T + 1.81 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 339.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

I₂Ni (s)	Nickel(II) iodide	I₂Ni (s)
NiI ₂ (s)		NiI ₂ (s)

mp = 1070 K (797 °C)

$$\Delta H_{298}^0 = -83.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [57]$$

$$C_p^0 = 79.95 + 5.55 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 970 \text{ K}) [4]$$

$$S_{298}^0 = 146.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [57]$$

I₂Ni (g)	Nickel(II) iodide	I₂Ni (g)
NiI ₂ (g)		NiI ₂ (g)

$$\Delta H_{298}^0 = 130.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [57]$$

$$S_{298}^0 = 334.7 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [57]$$

I₂O (g) IOI (g)	Iodine Oxide	I₂O (g) IOI (g)
$\Delta H_{298}^0 = 119.5 \pm 25 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 51.87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 308.1 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
I₂O (g) IIO (g)	Iodine Oxide	I₂O (g) IIO (g)
$\Delta H_{298}^0 = 106.7 \pm 40 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 52.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 330.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
I₂OTh (s) ThOI ₂ (s)	Thorium Iodide Oxide	I₂OTh (s) ThOI ₂ (s)
$\Delta H_{298}^0 = -988.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 107.6 + 4.67 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1339 K) [4]		$S_{298}^0 = 151 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₂O₂W (s) WO ₂ I ₂ (s)	Tungsten Iodide Oxide	I₂O₂W (s) WO ₂ I ₂ (s)
$\Delta H_{298}^0 = -721.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [281]		
I₂O₂W (g) WO ₂ I ₂ (g)	Tungsten Iodide Oxide	I₂O₂W (g) WO ₂ I ₂ (g)
$\Delta H_{298}^0 = -428.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 92.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 377.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
I₂Pb (s) PbI ₂ (s)	Lead(II) Iodide	I₂Pb (s) PbI ₂ (s)
mp = 683 K (410 °C) $\Delta H_{298}^0 = -175.4 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 62.53 + 33.4 \cdot 10^{-3} \cdot T + 0.45 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 683 K) [4] $\lg(p,K) = -9.46 \cdot 10^3 \cdot T^{-1} - 3.27 \cdot \lg(T) + 19.25$ (500 ... 683 K) [4] {Reaction: evaporation as PbI ₂ (g)}		bp = 1120 K (847 °C) $S_{298}^0 = 174.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

I₂Pb (s) Pbl ₂ (s)	Lead(II) iodide	I₂Pb (s) Pbl ₂ (s)
$\Delta H^0_{683} = -144.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{683} = 241.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₂Pb (l) Pbl ₂ (l)	Lead(II) iodide	I₂Pb (l) Pbl ₂ (l)
$\Delta H^0_{683} = -120.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{683} = 275.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (683 K) [4]		
$\lg(\rho, K) = -9.09 \cdot 10^3 \cdot T^{-1} - 6.16 \cdot \lg(T) + 26.9$ (683 ... 1120 K) [4]		
{Reaction: evaporation as Pbl ₂ (g)}		

I₂Pb (g) Pbl ₂ (g)	Lead(II) iodide	I₂Pb (g) Pbl ₂ (g)
$\Delta H^0_{298} = -3.2 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 359.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.21 - 0.01 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

I₂Pd (s) Pdl ₂ (s)	Palladium(II) iodide	I₂Pd (s) Pdl ₂ (s)
$\Delta H^0_{298} = -63.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 180 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.2 + 23.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1156 K) [4]		
$\lg(\rho, K) = -6.97 \cdot 10^3 \cdot T^{-1} - 2.47 \cdot \lg(T) + 13.6$ (500 ... 1156 K) [4]		
{Reaction: decomposition Pdl ₂ (s) = Pd(s) + I ₂ (g)}		

I₂Pt (s) Ptl ₂ (s)	Platinum(II) iodide	I₂Pt (s) Ptl ₂ (s)
$\Delta H^0_{298} = -51.4 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [61]		$S^0_{298} = 119.3 \pm 5.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [61]

I₂Si (g) Sil ₂ (g)	Diiodosilylene	I₂Si (g) Sil ₂ (g)
$\Delta H^0_{298} = 92.5 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 321 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 57.95 + 0.16 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

I₂Sn (s) SnI ₂ (s)	Tin(II) iodide	I₂Sn (s) SnI ₂ (s)
mp = 593 K (320 °C)		bp = 990 K (717 °C)
$\Delta H_{298}^0 = -148.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 168.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.29 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 593 K) [4]		
I₂Sn (s) SnI ₂ (s)	Tin(II) iodide	I₂Sn (s) SnI ₂ (s)
$\Delta H_{593}^0 = -124.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{593}^0 = 225.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₂Sn (l) SnI ₂ (l)	Tin(II) iodide	I₂Sn (l) SnI ₂ (l)
$\Delta H_{593}^0 = -105.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{593}^0 = 256.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (593 K) [4]		
$\lg(p,K) = -7.41 \cdot 10^3 \cdot T^{-1} - 4.03 \cdot \lg(T) + 19.56$ (593 ... 990 K) [4]		
{Reaction: evaporation as SnI ₂ (g)}		
I₂Sn (g) SnI ₂ (g)	Tin(II) iodide	I₂Sn (g) SnI ₂ (g)
$\Delta H_{298}^0 = -0.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 343.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.92 - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₂Sr (s) SrI ₂ (s)	Strontium(II) iodide	I₂Sr (s) SrI ₂ (s)
mp = 811 K (538 °C)		bp = 2182 K (1909 °C)
$\Delta H_{298}^0 = -561.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 159.1 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 69.84 + 27.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 811 K) [4]		
I₂Sr (s) SrI ₂ (s)	Strontium(II) iodide	I₂Sr (s) SrI ₂ (s)
$\Delta H_{811}^0 = -517.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{811}^0 = 243 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₂Sr (l)	Strontium(II) Iodide	I₂Sr (l)
SrI ₂ (l)		SrI ₂ (l)
$\Delta H_{811}^0 = -498.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{811}^0 = 267.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (811 K) [4]		
$\lg(p,K) = -15.35 \cdot 10^3 \cdot T^{-1} - 5.74 \cdot \lg(T) + 26.2$ (900 ... 2000 K) [4]		
{Reaction: evaporation as SrI ₂ (g)}		

I₂Sr (l)	Strontium(II) Iodide	I₂Sr (l)
SrI ₂ (l)		SrI ₂ (l)
$\Delta H_{298}^0 = -548.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 172.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

I₂Sr (g)	Strontium(II) Iodide	I₂Sr (g)
SrI ₂ (g)		SrI ₂ (g)
$\Delta H_{298}^0 = -274.9 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 339.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.33 + 0.02 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

I₂Te (g)	Tellurium(II) Iodide	I₂Te (g)
Tel ₂ (g)		Tel ₂ (g)
$\Delta H_{298}^0 = 81.6 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [53]		$S_{298}^0 = 333.1 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [53]

I₂Ti (s)	Titanium(II) Iodide	I₂Ti (s)
TiI ₂ (s)		TiI ₂ (s)
		bp = 1358 K (1085 °C)
$\Delta H_{298}^0 = -266.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 122.6 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 84.15 + 7.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1358 K) [4]		

I₂Ti (g)	Titanium(II) Iodide	I₂Ti (g)
TiI ₂ (g)		TiI ₂ (g)
$\Delta H_{298}^0 = -19.7 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 323.7 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 61.49 + 1.12 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

I₂Tl₂ (g)	Thallium(I) iodide	I₂Tl₂ (g)
Tl ₂ I ₂ (g)		Tl ₂ I ₂ (g)

$$\Delta H_{298}^0 = -59.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [254, 8]}$$

$$S_{298}^0 = 424.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [254, 8]}$$

I₂V (s)	Vanadium(II) iodide	I₂V (s)
VI ₂ (s)		VI ₂ (s)

$$\text{mp} = 1050 \text{ K (777 }^\circ\text{C)}$$

$$\text{bp} = 1200 \text{ K (927 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -256.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 146.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 72.34 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1000 K) [4]}$$

I₂V (g)	Vanadium(II) iodide	I₂V (g)
VI ₂ (g)		VI ₂ (g)

$$\Delta H_{298}^0 = -21.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 276.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

I₂Zn (s)	Zinc(II) iodide	I₂Zn (s)
ZnI ₂ (s)		ZnI ₂ (s)

$$\text{mp} = 719 \text{ K (446 }^\circ\text{C)}$$

$$\text{bp} = 999 \text{ K (726 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -208.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 161.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 85.14 + 11.46 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 719 K) [4]}$$

$$\lg(p, K) = -8.11 \cdot 10^3 \cdot T^{-1} - 3.64 \cdot \lg(T) + 19.51 \text{ (500 ... 719 K) [4]}$$

{Reaction: evaporation as ZnI₂(g)}

I₂Zn (s)	Zinc(II) iodide	I₂Zn (s)
ZnI ₂ (s)		ZnI ₂ (s)

$$\Delta H_{719}^0 = -172.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{719}^0 = 235.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

I₂Zn (l) ZnI ₂ (l)	Zinc(II) iodide	I₂Zn (l) ZnI ₂ (l)
$\Delta H_{719}^0 = -153.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{719}^0 = 261.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 121.34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (719 K) [4]		
$\lg(\rho, K) = -8.36 \cdot 10^3 \cdot T^{-1} - 7.6 \cdot \lg(T) + 31.17$ (719 ... 999 K) [4]		
{Reaction: evaporation as ZnI ₂ (g)}		
I₂Zn (g) ZnI ₂ (g)	Zinc(II) iodide	I₂Zn (g) ZnI ₂ (g)
$\Delta H_{298}^0 = -63.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 328.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
I₂Zr (s) ZrI ₂ (s)	Zirconium(II) iodide	I₂Zr (s) ZrI ₂ (s)
mp = 700 K (427 °C)		
$\Delta H_{298}^0 = -277.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 150.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 102.14 - 6.59 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 700 K) [4]		
I₂Zr (s) ZrI ₂ (s)	Zirconium(II) iodide	I₂Zr (s) ZrI ₂ (s)
$\Delta H_{700}^0 = -239.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{700}^0 = 232.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₂Zr (l) ZrI ₂ (l)	Zirconium(II) iodide	I₂Zr (l) ZrI ₂ (l)
$\Delta H_{700}^0 = -214 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{700}^0 = 268.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.67 + 90.49 \cdot 10^{-3} \cdot T + 1.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (700 ... 1294 K) [4]		
I₂Zr (l) ZrI ₂ (l)	Zirconium(II) iodide	I₂Zr (l) ZrI ₂ (l)
$\Delta H_{298}^0 = -234.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 186.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

I₂Zr (g) ZrI ₂ (g)	Zirconium(II) iodide	I₂Zr (g) ZrI ₂ (g)
$\Delta H_{298}^0 = -85.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 344.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 58.17 + 0.02 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Er (s) ErI ₃ (s)	Erbium(III) iodide	I₃Er (s) ErI ₃ (s)
$\Delta H_{298}^0 = -619 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [217.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
I₃Eu (s) EuI ₃ (s)	Europium(III) iodide	I₃Eu (s) EuI ₃ (s)
$\Delta H_{298}^0 = -538 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [215.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
I₃In (s) InI ₃ (s)	Indium(III) iodide	I₃In (s) InI ₃ (s)
mp = 480 K (207 °C)		bp = 719 K (446 °C)
$\Delta H_{298}^0 = -234.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 203.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 164.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
I₃In (s) InI ₃ (s)	Indium(III) iodide	I₃In (s) InI ₃ (s)
$\Delta H_{480}^0 = -204.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{480}^0 = 281.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₃In (l) InI ₃ (l)	Indium(III) iodide	I₃In (l) InI ₃ (l)
$\Delta H_{480}^0 = -184.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{480}^0 = 323.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 135.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (480 K) [4]		
$\lg(\rho, K) = -5.54 \cdot 10^3 \cdot T^{-1} - 6.42 \cdot \lg(T) + 26.05$ (480 ... 719 K) [4]		
{Reaction: evaporation as InI ₃ (g)}		

I₃In (g)	Indium(III) iodide	I₃In (g)
InI ₃ (g)		InI ₃ (g)

$$\Delta H_{298}^0 = -120.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 400 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 83.1 + 0.03 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

I₃La (s)	Lanthanum(III) iodide	I₃La (s)
LaI ₃ (s)		LaI ₃ (s)

$$\text{mp} = 1051 \text{ K (778 } ^\circ\text{C)}$$

$$\text{bp} = 1925 \text{ K (1652 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -666.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 214.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 92.35 + 27.56 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1051 K) [4]}$$

$$\lg(p, K) = -15.93 \cdot 10^3 \cdot T^{-1} - 4.18 \cdot \lg(T) + 23.13 \text{ (800 ... 1051 K) [4]}$$

{Reaction: evaporation as LaI₃(g)}

I₃La (s)	Lanthanum(III) iodide	I₃La (s)
LaI ₃ (s)		LaI ₃ (s)

$$\Delta H_{1051}^0 = -583.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1051}^0 = 350.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

I₃La (l)	Lanthanum(III) iodide	I₃La (l)
LaI ₃ (l)		LaI ₃ (l)

$$\Delta H_{1051}^0 = -546.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1051}^0 = 386.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 151.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1051 K) [4]}$$

$$\lg(p, K) = -15.83 \cdot 10^3 \cdot T^{-1} - 8.28 \cdot \lg(T) + 35.42 \text{ (1051 ... 1925 K) [4]}$$

{Reaction: evaporation as LaI₃(g)}

I₃La (g)	Lanthanum(III) iodide	I₃La (g)
LaI ₃ (g)		LaI ₃ (g)

$$\Delta H_{298}^0 = -377.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 412.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 83.12 + 0.02 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

I₃LaO₉ (s)	Lanthanum iodate	I₃LaO₉ (s)
La(IO ₃) ₃ (s)		La(IO ₃) ₃ (s)

$$\Delta H_{298}^0 = -1400 \text{ kJ}\cdot\text{mol}^{-1} \text{ [96]}$$

$$S_{298}^0 = 251.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [96]}$$

I₃Lu (s) LuI ₃ (s)	Lutetium(III) iodide	I₃Lu (s) LuI ₃ (s)
$\Delta H_{298}^0 = -605.1 \pm 2.2 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [218.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
I₃Mo (s) MoI ₃ (s)	Molybdenum(III) iodide	I₃Mo (s) MoI ₃ (s)
$\Delta H_{298}^0 = -124.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 195.4 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 103.92 + 8.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 622 K) [4]		
I₃Mo (g) MoI ₃ (g)	Molybdenum(III) iodide	I₃Mo (g) MoI ₃ (g)
$\Delta H_{298}^0 = 182.8 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 403.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.94 + 2.57 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} + 0.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃NaPb (g) NaPbI ₃ (g)	Sodium Lead iodide	I₃NaPb (g) NaPbI ₃ (g)
$\Delta H_{298}^0 = -256 \text{ kJ}\cdot\text{mol}^{-1}$ [159, 8]		$S_{298}^0 = 457.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [159, 8]
I₃Nd (s) NdI ₃ (s)	Neodymium(III) iodide alpha	I₃Nd (s) NdI ₃ (s)
mp = 1060 K (787 °C)		bp = 1777 K (1504 °C)
$\Delta H_{298}^0 = -628.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 215.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96 + 30.33 \cdot 10^{-3} \cdot T - 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 847 K) [4]		
I₃Nd (s) NdI ₃ (s)	Neodymium(III) iodide alpha	I₃Nd (s) NdI ₃ (s)
$\Delta H_{847}^0 = -567.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{847}^0 = 329.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₃Nd (s) NdI ₃ (s)	Neodymium(III) Iodide beta	I₃Nd (s) NdI ₃ (s)
$\Delta H_{847}^0 = -553.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{847}^0 = 345.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 117.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (847 K) [4]		
$\lg(p,K) = -15.21 \cdot 10^3 \cdot T^{-1} - 3.62 \cdot \lg(T) + 21.21$ (847 ... 1060 K) [4]		
{Reaction: evaporation as NdI ₃ (g)}		
I₃Nd (s) NdI ₃ (s)	Neodymium(III) Iodide beta	I₃Nd (s) NdI ₃ (s)
$\Delta H_{1060}^0 = -528.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1060}^0 = 371.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₃Nd (l) NdI ₃ (l)	Neodymium(III) Iodide	I₃Nd (l) NdI ₃ (l)
$\Delta H_{1060}^0 = -495.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1060}^0 = 403.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 155.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1060 K) [4]		
$\lg(p,K) = -15.49 \cdot 10^3 \cdot T^{-1} - 8.03 \cdot \lg(T) + 34.81$ (1060 ... 1777 K) [4]		
{Reaction: evaporation as NdI ₃ (g)}		
I₃Nd (g) NdI ₃ (g)	Neodymium(III) Iodide	I₃Nd (g) NdI ₃ (g)
$\Delta H_{298}^0 = -334.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 430.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.6 + 3.87 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃P (g) PI ₃ (g)	Phosphorus(III) Iodide	I₃P (g) PI ₃ (g)
mp = 334 K (61 °C)		bp = 500 K (227 °C)
$\Delta H_{298}^0 = -18 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 374.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.84 - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Pm (s) PmI ₃ (s)	Promethium(III) Iodide	I₃Pm (s) PmI ₃ (s)
$\Delta H_{298}^0 = -634 \pm 10 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [215.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]

I₃Pr (s) PrI ₃ (s)	Praseodymium(III) iodide	I₃Pr (s) PrI ₃ (s)
mp = 1011 K (738 °C)		bp = 1803 K (1530 °C)
$\Delta H_{298}^0 = -654.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 228.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 98.41 + 27.71 \cdot 10^{-3} \cdot T - 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1011 K) [4]		
$\lg(p, K) = -15.49 \cdot 10^3 \cdot T^{-1} - 4.34 \cdot \lg(T) + 23.69$ (800 ... 1011 K) [4]		
{Reaction: evaporation as PrI ₃ (g)}		
I₃Pr (s) PrI ₃ (s)	Praseodymium(III) iodide	I₃Pr (s) PrI ₃ (s)
$\Delta H_{1011}^0 = -572.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1011}^0 = 365.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₃Pr (l) PrI ₃ (l)	Praseodymium(III) iodide	I₃Pr (l) PrI ₃ (l)
$\Delta H_{1011}^0 = -535.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1011}^0 = 402.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 142.26 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1011 K) [4]		
$\lg(p, K) = -14.42 \cdot 10^3 \cdot T^{-1} - 6.33 \cdot \lg(T) + 28.61$ (1011 ... 1803 K) [4]		
{Reaction: evaporation as PrI ₃ (g)}		
I₃Pr (g) PrI ₃ (g)	Praseodymium(III) iodide	I₃Pr (g) PrI ₃ (g)
$\Delta H_{298}^0 = -373.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 430.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 82.04 + 5.29 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Re (g) ReI ₃ (g)	Rhenium(III) iodide	I₃Re (g) ReI ₃ (g)
$\Delta H_{298}^0 = 25.1 \pm 28 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 412.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 75.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

I₃Sb (s) SbI ₃ (s)	Antimony(III) iodide	I₃Sb (s) SbI ₃ (s)
mp = 444 K (171 °C)		bp = 667 K (394 °C)
$\Delta H_{298}^0 = -100.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 218.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.79 + 86 \cdot 10^{-3} \cdot T + 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 444 K) [4]		
$\lg(p,K) = -5.95 \cdot 10^3 \cdot T^{-1} - 2.66 \cdot \lg(T) + 17.48$ (300 ... 444 K) [4]		
{Reaction: evaporation as SbI ₃ (g)}		
I₃Sb (s) SbI ₃ (s)	Antimony(III) iodide	I₃Sb (s) SbI ₃ (s)
$\Delta H_{444}^0 = -85.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{444}^0 = 260.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₃Sb (l) SbI ₃ (l)	Antimony(III) iodide	I₃Sb (l) SbI ₃ (l)
$\Delta H_{444}^0 = -62.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{444}^0 = 311.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 143.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (444 K) [4]		
$\lg(p,K) = -5.66 \cdot 10^3 \cdot T^{-1} - 7.37 \cdot \lg(T) + 29.3$ (444 ... 667 K) [4]		
{Reaction: evaporation as SbI ₃ (g)}		
I₃Sb (g) SbI ₃ (g)	Antimony(III) iodide	I₃Sb (g) SbI ₃ (g)
$\Delta H_{298}^0 = 6.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 405 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.04 + 0.12 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Sc (s) ScI ₃ (s)	Scandium(III) iodide	I₃Sc (s) ScI ₃ (s)
$\Delta H_{298}^0 = -568.7 \pm 1 \text{ kJ}\cdot\text{mol}^{-1}$ [113]		$S_{298}^0 = 185.7 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [113]
$C_p^0 = 98.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [113]		
I₃Sc (g) ScI ₃ (g)	Scandium(III) iodide	I₃Sc (g) ScI ₃ (g)
$\Delta H_{298}^0 = -316.1 \text{ kJ}\cdot\text{mol}^{-1}$ [157, 113]		$S_{298}^0 = 396 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [157]

I₃Si (g) SiI ₃ (g)	Triiodosilyl	I₃Si (g) SiI ₃ (g)
$\Delta H_{298}^0 = 35.3 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 378.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 82.74 + 0.24 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
L₃Sm (s) SmI ₃ (s)	Samarium(III) iodide	L₃Sm (s) SmI ₃ (s)
$\Delta H_{298}^0 = -621.5 \pm 4 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [215.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
$C_p^0 = [104.18] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [188]		
I₃Tb (s) TbI ₃ (s)	Terbium(III) iodide alpha	I₃Tb (s) TbI ₃ (s)
mp = 1228 K (955 °C)		bp = 1625 K (1352 °C)
$\Delta H_{298}^0 = -606.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 229.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 93.61 + 25.46 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1080 K) [4]		
$\lg(p, K) = -15.01 \cdot 10^3 \cdot T^{-1} - 3.72 \cdot \lg(T) + 21.83$ (800 ... 1080 K) [4]		
{Reaction: evaporation as TbI ₃ (g)}		
I₃Tb (s) TbI ₃ (s)	Terbium(III) iodide alpha	I₃Tb (s) TbI ₃ (s)
$\Delta H_{1080}^0 = -520.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1080}^0 = 368.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₃Tb (s) TbI ₃ (s)	Terbium(III) iodide beta	I₃Tb (s) TbI ₃ (s)
$\Delta H_{1080}^0 = -519.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1080}^0 = 369.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 124.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1080 K) [4]		
$\lg(p, K) = -15.31 \cdot 10^3 \cdot T^{-1} - 4.46 \cdot \lg(T) + 24.35$ (1080 ... 1228 K) [4]		
{Reaction: evaporation as TbI ₃ (g)}		
I₃Tb (s) TbI ₃ (s)	Terbium(III) iodide beta	I₃Tb (s) TbI ₃ (s)
$\Delta H_{1228}^0 = -501.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1228}^0 = 385.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₃Tb (l) TbI ₃ (l)	Terbium(III) iodide	I₃Tb (l) TbI ₃ (l)
$\Delta H_{1228}^0 = -447.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1228}^0 = 428.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 157.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1228 K) [4]		
$\lg(\rho, K) = -14.53 \cdot 10^3 \cdot T^{-1} - 8.26 \cdot \lg(T) + 35.46$ (1228 ... 1625 K) [4]		
{Reaction: evaporation as TbI ₃ (g)}		
I₃Tb (g) TbI ₃ (g)	Terbium(III) iodide	I₃Tb (g) TbI ₃ (g)
$\Delta H_{298}^0 = -333 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 431 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 82.09 + 4.64 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Ti (s) TiI ₃ (s)	Titanium(III) iodide	I₃Ti (s) TiI ₃ (s)
$\Delta H_{298}^0 = -338.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 190.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 114.57 + 7.31 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1092 K) [4]		
I₃Ti (g) TiI ₃ (g)	Titanium(III) iodide	I₃Ti (g) TiI ₃ (g)
$\Delta H_{298}^0 = -150.2 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 382.2 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 88.93 - 1.77 \cdot 10^{-3} \cdot T - 0.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₃Tm (s) TmI ₃ (s)	Thulium(III) iodide	I₃Tm (s) TmI ₃ (s)
mp = 1288 K (1015 °C)		bp = 1530 K (1257 °C)
$\Delta H_{298}^0 = -619.7 \pm 3.5 \text{ kJ}\cdot\text{mol}^{-1}$ [266]		$S_{298}^0 = [218] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [267]
I₃Tm (g) TmI ₃ (g)	Thulium(III) iodide	I₃Tm (g) TmI ₃ (g)
$\Delta H_{298}^0 = -329.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 429.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.11 + 0.03 \cdot 10^{-3} \cdot T - 0.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

I₃U (s)	Uranium(III) iodide	I₃U (s)
UI ₃ (s)		UI ₃ (s)

$$\Delta H_{298}^0 = -460.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 222 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 102.97 + 30.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1200 K) [4]}$$

I₃V (s)	Vanadium(III) iodide	I₃V (s)
VI ₃ (s)		VI ₃ (s)

$$\Delta H_{298}^0 = -265.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 202.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 97.24 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 553 K) [4]}$$

I₃Y (s)	Yttrium(III) iodide	I₃Y (s)
YI ₃ (s)		YI ₃ (s)

$$\text{mp} = 1273 \text{ K (1000 }^\circ\text{C)}$$

$$\text{bp} = 1580 \text{ K (1307 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -616.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 100.92 + 11.51 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1273 K) [4]}$$

$$\lg(p, K) = -15.38 \cdot 10^3 \cdot T^{-1} - 3.59 \cdot \lg(T) + 21.68 \text{ (800 ... 1273 K) [4]}$$

{Reaction: evaporation as YI₃(g)}

I₃Y (s)	Yttrium(III) iodide	I₃Y (s)
YI ₃ (s)		YI ₃ (s)

$$\Delta H_{1273}^0 = -511.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1273}^0 = 360.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

I₃Y (l)	Yttrium(III) iodide	I₃Y (l)
YI ₃ (l)		YI ₃ (l)

$$\Delta H_{1273}^0 = -461.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1273}^0 = 400.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1273 K) [4]}$$

$$\lg(p, K) = -16.1 \cdot 10^3 \cdot T^{-1} - 9.63 \cdot \lg(T) + 40.99 \text{ (1273 ... 1580 K) [4]}$$

{Reaction: evaporation as YI₃(g)}

I₃Y (g) YI ₃ (g)	Yttrium(III) Iodide	I₃Y (g) YI ₃ (g)
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$$\Delta H_{298}^0 = -335.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 413.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 83.68 - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

I₃Zr (s) ZrI ₃ (s)	Zirconium(III) Iodide	I₃Zr (s) ZrI ₃ (s)
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$$\Delta H_{298}^0 = -391.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 204.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 108.39 + 0.9 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 798 \text{ K}) [4]$$

I₃Zr (g) ZrI ₃ (g)	Zirconium(III) Iodide	I₃Zr (g) ZrI ₃ (g)
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$$\Delta H_{298}^0 = -128.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 397.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 83.1 + 0.03 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

I₄Mn₂ (g) Mn ₂ I ₄ (g)	Manganese(II) Iodide	I₄Mn₂ (g) Mn ₂ I ₄ (g)
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$$\Delta H_{298}^0 = -278 \text{ kJ}\cdot\text{mol}^{-1} [58]$$

$$S_{298}^0 = 534 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [58]$$

I₄Mo (s) MoI ₄ (s)	Molybdenum(IV) Iodide	I₄Mo (s) MoI ₄ (s)
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$$\Delta H_{298}^0 = -123 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 266.1 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 137.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

I₄Mo (g) MoI ₄ (g)	Molybdenum(IV) Iodide	I₄Mo (g) MoI ₄ (g)
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$$\Delta H_{298}^0 = 124.7 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 452.8 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 107.91 - 0.09 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} + 0.16 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

I₄Ni₂ (g) Ni ₂ I ₄ (g)	Nickel(II) Iodide	I₄Ni₂ (g) Ni ₂ I ₄ (g)
$\Delta H^0_{298} = 89.5 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [57]		$S^0_{298} = 535.6 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [57]
I₄Pb (g) PbI ₄ (g)	Lead(IV) Iodide	I₄Pb (g) PbI ₄ (g)
$\Delta H^0_{298} = -226.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 466.3 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 108.07 + 0.01 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₄Pb₂ (g) Pb ₂ I ₄ (g)	Lead(II) Iodide	I₄Pb₂ (g) Pb ₂ I ₄ (g)
$\Delta H^0_{298} = -136.8 \text{ kJ}\cdot\text{mol}^{-1}$ [157, 8]		$S^0_{298} = 544 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [157]
I₄Pt (s) PtI ₄ (s)	Platinum(IV) Iodide	I₄Pt (s) PtI ₄ (s)
$\Delta H^0_{298} = -72.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 180.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
I₄Si (s) SiI ₄ (s)	Tetraiodosilane	I₄Si (s) SiI ₄ (s)
mp = 394 K (121 °C)		bp = 574 K (301 °C)
$\Delta H^0_{298} = -191.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 254.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 81.96 + 87.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 394 K) [4]		
$\lg(p, K) = -4.39 \cdot 10^3 \cdot T^{-1} - 1.22 \cdot \lg(T) + 12$ (298 ... 394 K) [4]		
{Reaction: evaporation as SiI ₄ (g)}		
I₄Si (s) SiI ₄ (s)	Tetraiodosilane	I₄Si (s) SiI ₄ (s)
$\Delta H^0_{394} = -180.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{394} = 286 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₄Si (l) SiI ₄ (l)	Tetraiodosilane	I₄Si (l) SiI ₄ (l)
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$$\Delta H_{394}^0 = -161 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{394}^0 = 335.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 147.49 + 41.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (394 \dots 574 \text{ K}) [4]$$

I₄Si (l) SiI ₄ (l)	Tetraiodosilane	I₄Si (l) SiI ₄ (l)
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$$\Delta H_{298}^0 = -174.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 294.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 147.49 + 41.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (394 \dots 574 \text{ K}) [4]$$

I₄Si (g) SiI ₄ (g)	Tetraiodosilane	I₄Si (g) SiI ₄ (g)
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$$\Delta H_{298}^0 = -110.5 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 416.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 107.5 + 0.37 \cdot 10^{-3} \cdot T - 0.62 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

I₄Sn (s) SnI ₄ (s)	Tin(IV) Iodide	I₄Sn (s) SnI ₄ (s)
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$$\text{mp} = 418 \text{ K} (145 \text{ }^\circ\text{C})$$

$$\text{bp} = 626 \text{ K} (353 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -210.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 274.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 140.93 + 3.91 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 418 \text{ K}) [4]$$

$$\lg(p, K) = -5.31 \cdot 10^3 \cdot T^{-1} - 3.49 \cdot \lg(T) + 19.16 (298 \dots 418 \text{ K}) [4]$$

{Reaction: evaporation as SnI₄(g)}

I₄Sn (s) SnI ₄ (s)	Tin(IV) Iodide	I₄Sn (s) SnI ₄ (s)
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$$\Delta H_{418}^0 = -194.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{418}^0 = 319.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

I₄Sn (l) SnI ₄ (l)	Tin(IV) iodide	I₄Sn (l) SnI ₄ (l)
$\Delta H_{418}^0 = -175.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{418}^0 = 365.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (418 K) [4]		
$\lg(p,K) = -5 \cdot 10^3 \cdot T^{-1} - 7.39 \cdot \lg(T) + 28.66$ (418 ... 626 K) [4]		
{Reaction: evaporation as SnI ₄ (g)}		
I₄Sn (g) SnI ₄ (g)	Tin(IV) iodide	I₄Sn (g) SnI ₄ (g)
$\Delta H_{298}^0 = -118 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 446.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 108.19 - 0.16 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} - 2.64 \cdot 10^{-6} \cdot T^2$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
I₄Sn₂ (g) Sn ₂ I ₄ (g)	Tin(II) iodide	I₄Sn₂ (g) Sn ₂ I ₄ (g)
$\Delta H_{298}^0 = -117.3 \text{ kJ}\cdot\text{mol}^{-1}$ [157, 8]		$S_{298}^0 = 523.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [157]
I₄Te (s) Tel ₄ (s)	Tellurium(IV) iodide	I₄Te (s) Tel ₄ (s)
$\Delta H_{298}^0 = -69 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [53]		$S_{298}^0 = 225.9 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [53]
I₄Te (g) Tel ₄ (g)	Tellurium(IV) iodide	I₄Te (g) Tel ₄ (g)
$\Delta H_{298}^0 = 61.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [53]		$S_{298}^0 = 434.5 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [53]
I₄Th (s) ThI ₄ (s)	Thorium(IV) iodide	I₄Th (s) ThI ₄ (s)
mp = 839 K (566 °C)		bp = 1119 K (846 °C)
$\Delta H_{298}^0 = -671.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 145.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -11.26 \cdot 10^3 \cdot T^{-1} - 4.43 \cdot \lg(T) + 24.37$ (600 ... 839 K) [4]		
{Reaction: evaporation as ThI ₄ (g)}		

I₄Th (s)	Thorium(IV) Iodide	I₄Th (s)
ThI ₄ (s)		ThI ₄ (s)

$$\Delta H_{839}^0 = -592.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{839}^0 = 406.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

I₄Th (l)	Thorium(IV) Iodide	I₄Th (l)
ThI ₄ (l)		ThI ₄ (l)

$$\Delta H_{839}^0 = -544.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{839}^0 = 463.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 175.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (839 \text{ K}) [4]$$

$$\lg(p, K) = -10.05 \cdot 10^3 \cdot T^{-1} - 7.98 \cdot \lg(T) + 33.31 (839 \dots 1119 \text{ K}) [4]$$

{Reaction: evaporation as ThI₄(g)}

I₄Th (g)	Thorium(IV) Iodide	I₄Th (g)
ThI ₄ (g)		ThI ₄ (g)

$$\Delta H_{298}^0 = -466.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 476.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 109.67 + 0.07 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2023 \text{ K}) [4]$$

I₄Ti (s)	Titanium(IV) Iodide alpha	I₄Ti (s)
TiI ₄ (s)		TiI ₄ (s)

$$\text{mp} = 428 \text{ K} (155 \text{ }^\circ\text{C})$$

$$\text{bp} = 651 \text{ K} (378 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -375.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 246.2 \pm 6.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 71.42 + 181.87 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 379 \text{ K}) [4]$$

$$\lg(p, K) = -5.59 \cdot 10^3 \cdot T^{-1} - 3.37 \cdot \lg(T) + 19.58 (298 \dots 379 \text{ K}) [4]$$

{Reaction: evaporation as TiI₄(g)}

I₄Ti (s)	Titanium(IV) Iodide alpha	I₄Ti (s)
TiI ₄ (s)		TiI ₄ (s)

$$\Delta H_{379}^0 = -365 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{379}^0 = 278 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

I₄Ti (s) TiI ₄ (s)	Titanium(IV) Iodide beta	I₄Ti (s) TiI ₄ (s)
$\Delta H_{379}^0 = -355.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{379}^0 = 302.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 192.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (379 K) [4]		
$\lg(p,K) = -6.24 \cdot 10^3 \cdot T^{-1} - 10.36 \cdot \lg(T) + 39.33$ (379 ... 428 K) [4]		
{Reaction: evaporation as TiI ₄ (g)}		
I₄Ti (s) TiI ₄ (s)	Titanium(IV) Iodide beta	I₄Ti (s) TiI ₄ (s)
$\Delta H_{428}^0 = -346.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{428}^0 = 326.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₄Ti (l) TiI ₄ (l)	Titanium(IV) Iodide	I₄Ti (l) TiI ₄ (l)
$\Delta H_{428}^0 = -328.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{428}^0 = 367.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (428 K) [4]		
$\lg(p,K) = -4.51 \cdot 10^3 \cdot T^{-1} - 6.04 \cdot \lg(T) + 23.92$ (428 ... 651 K) [4]		
{Reaction: evaporation as TiI ₄ (g)}		
I₄Ti (l) TiI ₄ (l)	Titanium(IV) Iodide	I₄Ti (l) TiI ₄ (l)
$\Delta H_{298}^0 = -348.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 311.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (428 K) [4]		
I₄Ti (g) TiI ₄ (g)	Titanium(IV) Iodide	I₄Ti (g) TiI ₄ (g)
$\Delta H_{298}^0 = -277.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 433.1 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.97 + 0.07 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1939 K) [4]		

I₄U (s)	Uranium(IV) Iodide	I₄U (s)
UI ₄ (s)		UI ₄ (s)

mp = 779 K (506 °C)

bp = 1037 K (764 °C)

 $\Delta H_{298}^0 = -512.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 263.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 149.37 + 9.96 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 779 K) [4] $\lg(p, K) = -11.4 \cdot 10^3 \cdot T^{-1} - 5.22 \cdot \lg(T) + 27.47$ (600 ... 779 K) [4]{Reaction: evaporation as UI₄(g)}

I₄U (s)	Uranium(IV) Iodide	I₄U (s)
UI ₄ (s)		UI ₄ (s)

 $\Delta H_{779}^0 = -441 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{779}^0 = 404.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

I₄U (l)	Uranium(IV) Iodide	I₄U (l)
UI ₄ (l)		UI ₄ (l)

 $\Delta H_{779}^0 = -398.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{779}^0 = 458.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 165.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (779 K) [4] $\lg(p, K) = -9.78 \cdot 10^3 \cdot T^{-1} - 6.95 \cdot \lg(T) + 30.39$ (779 ... 1037 K) [4]{Reaction: evaporation as UI₄(g)}

I₄U (g)	Uranium(IV) Iodide	I₄U (g)
UI ₄ (g)		UI ₄ (g)

 $\Delta H_{298}^0 = -308.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 494 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 107.91 - 0.09 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} + 0.16 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

I₄Zn₂ (g)	Zinc(II) Iodide	I₄Zn₂ (g)
Zn ₂ I ₄ (g)		Zn ₂ I ₄ (g)

 $\Delta H_{298}^0 = -220 \text{ kJ}\cdot\text{mol}^{-1}$ [241, 8] $S_{298}^0 = 515.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [241, 8]

I₄Zr (s) ZrI ₄ (s)	Zirconium(IV) Iodide	I₄Zr (s) ZrI ₄ (s)
mp = 772 K (499 °C)		bp = 702 K (429 °C)
$\Delta H_{298}^0 = -488.7 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 260.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 124.1 + 15.1 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 702 K) [4]		
$\lg(p, K) = -7.37 \cdot 10^3 \cdot T^{-1} - 2.93 \cdot \lg(T) + 18.84$ (400 ... 702 K) [4]		
{Reaction: evaporation as ZrI ₄ (g)}		
I₄Zr (g) ZrI ₄ (g)	Zirconium(IV) Iodide	I₄Zr (g) ZrI ₄ (g)
$\Delta H_{298}^0 = -362.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 446.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 107.97 + 0.08 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₅Nb (s) NbI ₅ (s)	Niobium(V) Iodide	I₅Nb (s) NbI ₅ (s)
mp = 600 K (327 °C)		bp = 620 K (347 °C)
$\Delta H_{298}^0 = -270.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 343.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 129.62 + 87.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		
I₅Nb (s) NbI ₅ (s)	Niobium(V) Iodide	I₅Nb (s) NbI ₅ (s)
$\Delta H_{600}^0 = -219.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{600}^0 = 460.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₅Nb (l) NbI ₅ (l)	Niobium(V) Iodide	I₅Nb (l) NbI ₅ (l)
$\Delta H_{600}^0 = -182.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{600}^0 = 522.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (600 K) [4]		
I₅Re (g) ReI ₅ (g)	Rhenium(V) Iodide	I₅Re (g) ReI ₅ (g)
$\Delta H_{298}^0 = 0 \pm 23.4 \text{ kJ}\cdot\text{mol}^{-1}$ [50]		$S_{298}^0 = 497.9 \pm 10.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [50]
$C_p^0 = 108.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [50]		

I₅Ta (s) TaI ₅ (s)	Tantalum(V) Iodide	I₅Ta (s) TaI ₅ (s)
mp = 769 K (496 °C)		bp = 817 K (544 °C)
$\Delta H_{298}^0 = -333.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 343.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 129.62 + 87.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 769 K) [4]		
$\lg(p, K) = -7.45 \cdot 10^3 \cdot T^{-1} - 6 \cdot \lg(T) + 26.76$ (400 ... 769 K) [4]		
{Reaction: evaporation}		
I₅Ta (s) TaI ₅ (s)	Tantalum(V) Iodide	I₅Ta (s) TaI ₅ (s)
$\Delta H_{769}^0 = -250.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{769}^0 = 507 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
I₅Ta (l) TaI ₅ (l)	Tantalum(V) Iodide	I₅Ta (l) TaI ₅ (l)
$\Delta H_{769}^0 = -208.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{769}^0 = 561.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (769 K) [4]		
I₅Ta (g) TaI ₅ (g)	Tantalum(V) Iodide	I₅Ta (g) TaI ₅ (g)
$\Delta H_{298}^0 = -192.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 532.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.05 - 0.15 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
I₆Sc₂ (g) Sc ₂ I ₆ (g)	Scandium(III) Iodide	I₆Sc₂ (g) Sc ₂ I ₆ (g)
$\Delta H_{298}^0 = -329.6 \text{ kJ}\cdot\text{mol}^{-1}$ [157, 113]		$S_{298}^0 = 619.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [157]
In (s)	Indium	In (s)
mp = 430 K (157 °C)		bp = 2343 K (2070 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 57.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 10.96 + 39.85 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 430 K) [4]		

In (s)	Indium	In (s)
$\Delta H_{430}^0 = 3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{430}^0 = 66.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 26.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (430 K) [4]		
In (l)	Indium	In (l)
$\Delta H_{430}^0 = 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{430}^0 = 73.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 29.88 - 0.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (430 ... 900 K) [4]		
$\lg(p, K) = -12.65 \cdot 10^3 \cdot T^{-1} - 0.31 \cdot \lg(T) + 644$ (900 ... 2343 K) [4]		
{Reaction: evaporation}		
In (g)	Indium	In (g)
$\Delta H_{298}^0 = 246.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.69 + 2.36 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
InN (s)	Indium(III) Nitride	InN (s)
mp = 1473 K (1200 °C)		
$\Delta H_{298}^0 = -138.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 43.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.07 + 12.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1219 K) [4]		
InP (s)	Indium(III) Phosphide alpha	InP (s)
mp = 1344 K (1071 °C)		
$\Delta H_{298}^0 = -88.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 59.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41 + 14.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 910 K) [4]		
InP (s)	Indium(III) Phosphide alpha	InP (s)
$\Delta H_{910}^0 = -58.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{910}^0 = 114.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

InP (s)	Indium(III) Phosphide beta	InP (s)
$\Delta H_{910}^0 = -57.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{910}^0 = 114.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 55.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (910 K) [4]		
InP (s)	Indium(III) Phosphide beta	InP (s)
$\Delta H_{1344}^0 = -33.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1344}^0 = 136.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
InP (l)	Indium(III) Phosphide	InP (l)
$\Delta H_{1344}^0 = 28.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1344}^0 = 183.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1344 K) [4]		
InS (s)	Indium Sulfide	InS (s)
mp = 953 K (680 °C)		
$\Delta H_{298}^0 = -133.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.51 + 18.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 953 K) [4]		
InS (g)	Indium Sulfide	InS (g)
$\Delta H_{298}^0 = 233 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 251.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.27 + 0.08 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
InS_{1,2} (s)	Indium Sulfide	InS_{1,2} (s)
$\Delta H_{298}^0 = -154.8 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [74.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
InSb (s)	Indium Antimonide	InSb (s)
mp = 798 K (525 °C)		
$\Delta H_{298}^0 = -30.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 87.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.77 + 15.06 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 798 K) [4]		

InSb (s)	Indium Antimonide	InSb (s)
$\Delta H_{798}^0 = -4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{798}^0 = 138.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
InSb (l)	Indium Antimonide	InSb (l)
$\Delta H_{798}^0 = 43.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{798}^0 = 198.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (798 K) [4]		
InSe (s)	Indium Selenide	InSe (s)
mp = 933 K (660 °C)		
$\Delta H_{298}^0 = -92.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.44 + 16.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 933 K) [4]		
InSe (g)	Indium Selenide	InSe (g)
$\Delta H_{298}^0 = 232.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 263.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.36 + 0.03 \cdot 10^{-3} \cdot T - 0.12 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
InTe (s)	Indium Telluride	InTe (s)
mp = 969 K (696 °C)		
$\Delta H_{298}^0 = -72 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 105.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.97 + 19.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 969 K) [4]		
InTe (s)	Indium Telluride	InTe (s)
$\Delta H_{969}^0 = -35.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{969}^0 = 168.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
InTe (l)	Indium Telluride	InTe (l)
$\Delta H_{969}^0 = 1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{969}^0 = 205.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (969 K) [4]		
InTe (g)	Indium Telluride	InTe (g)
$\Delta H_{298}^0 = 240.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 271.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.39 + 0.02 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

InTe₂ (g)	Indium Telluride	InTe₂ (g)
$\Delta H_{298}^0 = 212.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [326.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
In₂MnS₄ (s) MnIn ₂ S ₄ (s)	Manganese Indium Sulfide	In₂MnS₄ (s) MnIn ₂ S ₄ (s)
$\Delta H_{298}^0 = -584 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8] $C_p^0 = [167.92] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [243.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [201]
In₂O (g)	Indium(I) Oxide	In₂O (g)
$\Delta H_{298}^0 = -65.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 49.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 298.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
In₂O₃ (s)	Indium(III) Oxide	In₂O₃ (s)
mp = 2183 K (1910 °C) $\Delta H_{298}^0 = -925.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 122.69 + 8.1 \cdot 10^{-3} \cdot T - 2.2 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2183 K) [4]		$S_{298}^0 = 104.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
In₂O₁₂S₃ (s) In ₂ (SO ₄) ₃ (s)	Indium(III) Sulfate	In₂O₁₂S₃ (s) In ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -2725.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 200.2 + 251.04 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1030 K) [4]		$S_{298}^0 = 302.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂PbS₄ (s) PbIn ₂ S ₄ (s)	Lead Indium Sulfide	In₂PbS₄ (s) PbIn ₂ S ₄ (s)
$\Delta H_{298}^0 = -476.9 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8] $C_p^0 = [167.52] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [254.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [198]
In₂S (g)	Indium(I) Sulfide	In₂S (g)
$\Delta H_{298}^0 = 138.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 59.97 + 1.24 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 318.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

In₂S₂ (g)	Indium Sulfide	In₂S₂ (g)
$\Delta H_{298}^0 = 93.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [313.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
In₂S₃ (s)	Indium(III) Sulfide alpha	In₂S₃ (s)
mp = 1371 K (1098 °C)		
$\Delta H_{298}^0 = -355.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 163.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 128.95 + 3.26 \cdot 10^{-3} \cdot T - 1.06 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 660 K) [4]		
In₂S₃ (s)	Indium(III) Sulfide alpha	In₂S₃ (s)
$\Delta H_{660}^0 = -310.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{660}^0 = 262.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂S₃ (s)	Indium(III) Sulfide beta	In₂S₃ (s)
$\Delta H_{660}^0 = -309.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{660}^0 = 264.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 97.78 + 55.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (660 ... 1100 K) [4]		
In₂S₃ (s)	Indium(III) Sulfide beta	In₂S₃ (s)
$\Delta H_{1100}^0 = -244.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1100}^0 = 338.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂S₃ (s)	Indium(III) Sulfide gamma	In₂S₃ (s)
$\Delta H_{1100}^0 = -240.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1100}^0 = 342.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 159.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1100 K) [4]		
In₂S₄Zn (s) ZnIn ₂ S ₄ (s)	Zinc Indium Sulfide	In₂S₄Zn (s) ZnIn ₂ S ₄ (s)
$\Delta H_{298}^0 = -610.5 \text{ kJ}\cdot\text{mol}^{-1}$ [190, 8]		$S_{298}^0 = [221.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [204]
$C_p^0 = [163.28] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

In₂Se (s)	Indium(I) Selenide	In₂Se (s)
mp = 813 K (540 °C)		
$\Delta H_{298}^0 = -129.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 129.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 75.73 + 12.55 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 813 K) [4]		
In₂Se (g)	Indium(I) Selenide	In₂Se (g)
$\Delta H_{298}^0 = 144.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 329.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 59.97 + 1.24 \cdot 10^{-3} \cdot T - 0.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
In₂Se₂ (g)	Indium Selenide	In₂Se₂ (g)
$\Delta H_{298}^0 = 101.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [343.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
In₂Se₃ (s)	Indium(III) Selenide alpha	In₂Se₃ (s)
mp = 1173 K (900 °C)		
$\Delta H_{298}^0 = -326.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 201.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 59.92 + 270.5 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 470 K) [4]		
In₂Se₃ (s)	Indium(III) Selenide alpha	In₂Se₃ (s)
$\Delta H_{470}^0 = -298.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{470}^0 = 275 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂Se₃ (s)	Indium(III) Selenide beta	In₂Se₃ (s)
$\Delta H_{470}^0 = -296.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{470}^0 = 278 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 165.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (470 K) [4]		
In₂Te (s)	Indium(I) Telluride	In₂Te (s)
$\Delta H_{298}^0 = -79.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 67.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

In₂Te (g)	Indium(I) Telluride	In₂Te (g)
$\Delta H_{298}^0 = 230.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 341.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 59.97 + 1.24 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
In₂Te₂ (g)	Indium Telluride	In₂Te₂ (g)
$\Delta H_{298}^0 = 179.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [350.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
In₂Te₃ (s)	Indium(III) Telluride alpha	In₂Te₃ (s)
mp = 940 K (667 °C)		
$\Delta H_{298}^0 = -191.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 234.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 110.9 + 41.84 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 898 K) [4]		
In₂Te₃ (s)	Indium(III) Telluride alpha	In₂Te₃ (s)
$\Delta H_{898}^0 = -110.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{898}^0 = 381.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂Te₃ (s)	Indium(III) Telluride beta	In₂Te₃ (s)
$\Delta H_{898}^0 = -108.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{898}^0 = 383.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 148.53 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (898 K) [4]		
In₂Te₃ (s)	Indium(III) Telluride beta	In₂Te₃ (s)
$\Delta H_{940}^0 = -101.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{940}^0 = 390.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
In₂Te₃ (l)	Indium(III) Telluride	In₂Te₃ (l)
$\Delta H_{940}^0 = -20.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{940}^0 = 477.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (940 K) [4]		

In₂Te₅ (s)	Indium Telluride	In₂Te₅ (s)
$\Delta H_{298}^0 = -191.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [364.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [273]
In₃S₄ (s)	Indium Sulfide	In₃S₄ (s)
$\Delta H_{298}^0 = -502.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 234.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.13 + 121.5 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1113 K) [4]		
In₄S₅ (s)	Indium Sulfide	In₄S₅ (s)
mp = 1043 K (770 °C)		
$\Delta H_{298}^0 = -154.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 201.59 + 54.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1043 K) [4]		
In₄Te₃ (s)	Indium Telluride	In₄Te₃ (s)
$\Delta H_{298}^0 = -235.5 \pm 1.8 \text{ kJ}\cdot\text{mol}^{-1}$ [136]		$S_{298}^0 = [380.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [137]
In₅S₆ (s)	Indium Sulfide	In₅S₆ (s)
$\Delta H_{298}^0 = -774 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 374.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 262.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
In₉Te₇ (s)	Indium Telluride	In₉Te₇ (s)
mp = 735 K (462 °C)		
$\Delta H_{298}^0 = -425.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 859.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 301.25 + 196.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 735 K) [4]		
Ir (s)	Iridium	Ir (s)
mp = 2716 K (2443 °C)		bp = 4706 K (4433 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 35.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.88 + 7.04 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2716 K) [4]		
$\lg(p, K) = -35.45 \cdot 10^3 \cdot T^{-1} - 1.27 \cdot \lg(T) + 12.44$ (2100 ... 2716 K) [4]		
{Reaction: evaporation as Ir(g)}		

Ir (s)	Iridium	Ir (s)
$\Delta H_{2716}^0 = 80.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2716}^0 = 102.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2716 K) [2]		
Ir (l)	Iridium	Ir (l)
$\Delta H_{2716}^0 = 106.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2716}^0 = 111.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2716 K) [4]		
$\lg(p,K) = -34.14 \cdot 10^3 \cdot T^{-1} - 1.32 \cdot \lg(T) + 12.1$ (2716 ... 3000 K) [4]		
{Reaction: evaporation as Ir(g)}		
Ir (g)	Iridium	Ir (g)
$\Delta H_{298}^0 = 669.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 193.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
IrO₂ (s)	Iridium(IV) Oxide	IrO₂ (s)
$\Delta H_{298}^0 = -249.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.88 + 20.42 \cdot 10^{-3} \cdot T - 1.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -1368 K) [4]		
$\lg(p,K) = -13.48 \cdot 10^3 \cdot T^{-1} - 2.05 \cdot \lg(T) + 16.28$ (700 ... 1368 K) [4]		
{Reaction: decomposition IrO ₂ (s) = Ir(s) + O ₂ (g)}		
IrO₂ (g)	Iridium(IV) Oxide	IrO₂ (g)
$\Delta H_{298}^0 = 215.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 263.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
IrO₃ (g)	Iridium(VI) Oxide	IrO₃ (g)
$\Delta H_{298}^0 = 13.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 288.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 76.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
IrS₂ (s)	Iridium(IV) Sulfide	IrS₂ (s)
$\Delta H_{298}^0 = -133.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.58 + 15.77 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1325 K) [4]		

IrS_{2.667} (s)	Iridium Sulfide	IrS_{2.667} (s)
$\Delta H_{298}^0 = -163.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe_{1.5} (s)	Iridium Selenide	IrSe_{1.5} (s)
$\Delta H_{298}^0 = [-75.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [85.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe₂ (s)	Iridium Selenide	IrSe₂ (s)
$\Delta H_{298}^0 = [-96.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [94.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe₃ (s)	Iridium Selenide	IrSe₃ (s)
$\Delta H_{298}^0 = [-117.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [121.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrTe₂ (s)	Iridium Telluride	IrTe₂ (s)
$\Delta H_{298}^0 = [-71.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [123.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrTe_{2.67} (s)	Iridium Telluride	IrTe_{2.67} (s)
$\Delta H_{298}^0 = [-83.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [133.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ir₂S₃ (s)	Iridium(III) Sulfide	Ir₂S₃ (s)
$\Delta H_{298}^0 = -208.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 120.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110.29 + 32.97 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1443 K) [4]		
K (s)	Potassium	K (s)
mp = 336 K (63 °C)		bp = 1036 K (763 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 64.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 8.45 + 70.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 336 K) [4]		

IrS_{2.667} (s)	Iridium Sulfide	IrS_{2.667} (s)
$\Delta H_{298}^0 = -163.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe_{1.5} (s)	Iridium Selenide	IrSe_{1.5} (s)
$\Delta H_{298}^0 = [-75.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [85.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe₂ (s)	Iridium Selenide	IrSe₂ (s)
$\Delta H_{298}^0 = [-96.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [94.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrSe₃ (s)	Iridium Selenide	IrSe₃ (s)
$\Delta H_{298}^0 = [-117.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [121.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrTe₂ (s)	Iridium Telluride	IrTe₂ (s)
$\Delta H_{298}^0 = [-71.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [123.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
IrTe_{2.67} (s)	Iridium Telluride	IrTe_{2.67} (s)
$\Delta H_{298}^0 = [-83.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [133.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ir₂S₃ (s)	Iridium(III) Sulfide	Ir₂S₃ (s)
$\Delta H_{298}^0 = -208.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 120.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110.29 + 32.97 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1443 K) [4]		
K (s)	Potassium	K (s)
mp = 336 K (63 °C)		bp = 1036 K (763 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 64.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 8.45 + 70.75 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 336 K) [4]		

K (s)	Potassium	K (s)
$\Delta H_{336}^0 = 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{336}^0 = 68.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K (l)	Potassium	K (l)
$\Delta H_{336}^0 = 3.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{336}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.18 - 19.12 \cdot 10^{-3} \cdot T + 12.32 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (336 ... 1036 K) [4]		
K (l)	Potassium	K (l)
$\Delta H_{298}^0 = 2.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 71.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.18 - 19.12 \cdot 10^{-3} \cdot T + 12.32 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (336 ... 1036 K) [4]		
K (g)	Potassium	K (g)
$\Delta H_{298}^0 = 89 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 160.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.61 + 0.15 \cdot 10^{-3} \cdot T + 0.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -4.71 \cdot 10^3 \cdot T^{-1} - 1.27 \cdot \lg(T) + 8.35$ (400 ... 1036 K) [4]		
{Reaction: evaporation of K(l)}		
KMnO₄ (s)	Potassium Permanganate	KMnO₄ (s)
$\Delta H_{298}^0 = -837 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 172 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
KNO₂ (s)	Potassium Nitrite	KNO₂ (s)
mp = 713 K (440 °C)		
$\Delta H_{298}^0 = -369.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 152.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 41.17 + 110.04 \cdot 10^{-3} \cdot T + 2.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 713 K) [4]		
KNO₃ (s)	Potassium Nitrate alpha	KNO₃ (s)
mp = 607 K (334 °C)		
$\Delta H_{298}^0 = -494.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 133.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60.46 + 118.83 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 402 K) [4]		

KNO₃ (s)	Potassium Nitrate alpha	KNO₃ (s)
$\Delta H_{402}^0 = -484 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{402}^0 = 163.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
KNO₃ (s)	Potassium Nitrate beta	KNO₃ (s)
$\Delta H_{402}^0 = -478.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 120.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (402 K) [4]		$S_{402}^0 = 176.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
KNO₃ (s)	Potassium Nitrate beta	KNO₃ (s)
$\Delta H_{607}^0 = -454.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{607}^0 = 225.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
KNO₃ (l)	Potassium Nitrate	KNO₃ (l)
$\Delta H_{607}^0 = -444.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 123.43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (607 K) [4]		$S_{607}^0 = 241.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
KO (g)	Potassium Oxide	KO (g)
$\Delta H_{298}^0 = 71.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 238 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
KO₂ (s)	Potassium Superoxide	KO₂ (s)
mp = 782 K (509 °C) $\Delta H_{298}^0 = -284.5 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 87.66 + 10.67 \cdot 10^{-3} \cdot T - 1.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 782 K) [4] $\lg(p,K) = -4.33 \cdot 10^3 \cdot T^{-1} - 3.12 \cdot \lg(T) + 12.82$ (400 ... 782 K) [4] {Reaction: decomposition $2\text{KO}_2(\text{s}) = \text{K}_2\text{O}_2(\text{s}) + \text{O}_2(\text{g})$ }		$S_{298}^0 = 122.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

K₂ (g)	Potassium	K₂ (g)
$\Delta H_{298}^0 = 123.7 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 249.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.24 + 1.67 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -6.77 \cdot 10^3 \cdot T^{-1} - 2.94 \cdot \lg(T) + 14.14$ (500 ... 1036 K) [4]		
{Reaction: evaporation of K(l)}		
K₂MoO₄ (s)	Potassium Molybdate	K₂MoO₄ (s)
$\Delta H_{298}^0 = -1504.3 \pm 1.5 \text{ kJ}\cdot\text{mol}^{-1}$ [239]		$S_{298}^0 = [171.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [240, 8]
$C_p^0 = [159.56] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
K₂Mo₂O₇ (s)	Potassium Molybdate	K₂Mo₂O₇ (s)
$\Delta H_{298}^0 = -2298.7 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [239]		$S_{298}^0 = [249.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [240, 8]
$C_p^0 = [234.64] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
K₂Mo₃O₁₀ (s)	Potassium Molybdate	K₂Mo₃O₁₀ (s)
$\Delta H_{298}^0 = -3054.3 \pm 2 \text{ kJ}\cdot\text{mol}^{-1}$ [239]		$S_{298}^0 = [327.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [240, 8]
$C_p^0 = [309.72] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
K₂Mo₄O₁₃ (s)	Potassium Molybdate	K₂Mo₄O₁₃ (s)
$\Delta H_{298}^0 = -3824.7 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [239]		$S_{298}^0 = [405.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [240, 8]
$C_p^0 = [384.80] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
K₂Mo₈O₂₅ (s)	Potassium Molybdate	K₂Mo₈O₂₅ (s)
$\Delta H_{298}^0 = -6824.2 \pm 3.4 \text{ kJ}\cdot\text{mol}^{-1}$ [239]		$S_{298}^0 = [716.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [240, 8]
$C_p^0 = [685.12] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
K₂NpO₄ (s) K ₂ O · NpO ₃ (s)	Potassium Neptunium Oxide	K₂NpO₄ (s) K ₂ O · NpO ₃ (s)
$\Delta H_{298}^0 = -1784.5 \pm 6.1 \text{ kJ}\cdot\text{mol}^{-1}$ [14]		$S_{298}^0 = [192.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [232, 8]
$C_p^0 = [165.64] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

K₂O (s)	Potassium Oxide	K₂O (s)
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$\Delta H_{298}^0 = -363.2 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 94.1 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.94 + 36.66 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1154 K) [4]	

K₂O₂ (s)	Potassium Peroxide	K₂O₂ (s)
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mp = 763 K (490 °C)	
$\Delta H_{298}^0 = -495.8 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 113 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 79.74 + 69.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 763 K) [4]	

K₂O₃S (s)	Potassium Sulfite	K₂O₃S (s)
K ₂ SO ₃ (s)		

$\Delta H_{298}^0 = -1126.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 171.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

K₂O₃Se (s)	Potassium Selenite	K₂O₃Se (s)
K ₂ SeO ₃ (s)		

$\Delta H_{298}^0 = -982 \text{ kJ}\cdot\text{mol}^{-1}$ [7]	$S_{298}^0 = [160.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [122]
$C_p^0 = [142.72] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

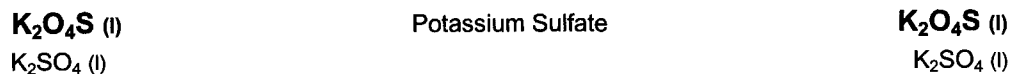
K₂O₃Si (s)	Potassium Silicate	K₂O₃Si (s)
K ₂ O · SiO ₂ (s)		

mp = 1249 K (976 °C)	
$\Delta H_{298}^0 = -1590.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 146.1 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 135.65 + 24.48 \cdot 10^{-3} \cdot T - 2.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1249 K) [4]	

K₂O₃Si (s)	Potassium Silicate	K₂O₃Si (s)
K ₂ O · SiO ₂ (s)		

$\Delta H_{1249}^0 = -1448.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1249}^0 = 352.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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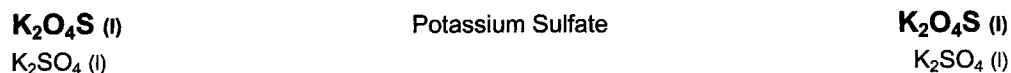
K₂O₃Si (l) K ₂ O · SiO ₂ (l)	Potassium Silicate	K₂O₃Si (l) K ₂ O · SiO ₂ (l)
$\Delta H_{1249}^0 = -1398.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1249 K) [4]		$S_{1249}^0 = 392.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₃Si (l) K ₂ O · SiO ₂ (l)	Potassium Silicate	K₂O₃Si (l) K ₂ O · SiO ₂ (l)
$\Delta H_{298}^0 = -1499.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 118.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 184.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
K₂O₄S (s) K ₂ SO ₄ (s)	Potassium Sulfate alpha	K₂O₄S (s) K ₂ SO ₄ (s)
mp = 1342 K (1069 °C) $\Delta H_{298}^0 = -1437.7 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 100.29 + 124.6 \cdot 10^{-3} \cdot T - 0.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 857 K) [4]		$S_{298}^0 = 175.5 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
K₂O₄S (s) K ₂ SO ₄ (s)	Potassium Sulfate alpha	K₂O₄S (s) K ₂ SO ₄ (s)
$\Delta H_{857}^0 = -1342.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{857}^0 = 348.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₄S (s) K ₂ SO ₄ (s)	Potassium Sulfate beta	K₂O₄S (s) K ₂ SO ₄ (s)
$\Delta H_{857}^0 = -1334.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 114.06 + 81.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (857 K) [4]		$S_{857}^0 = 358.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₄S (s) K ₂ SO ₄ (s)	Potassium Sulfate beta	K₂O₄S (s) K ₂ SO ₄ (s)
$\Delta H_{1342}^0 = -1235.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1342}^0 = 449.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]



$$\Delta H^0_{1342} = -1200.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 201.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1342 \text{ K}) [4]$$

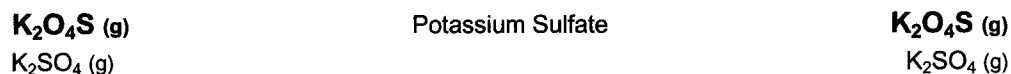
$$S^0_{1342} = 474.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H^0_{298} = -1393.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 201.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1342 \text{ K}) [4]$$

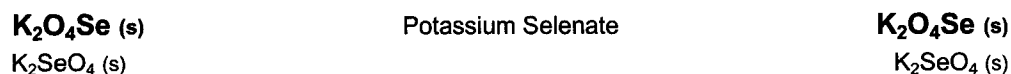
$$S^0_{298} = 211.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$



$$\Delta H^0_{298} = -1094.1 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

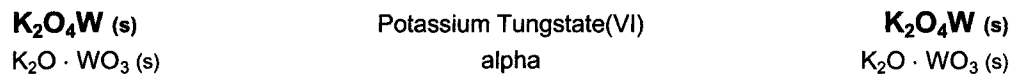
$$C_p^0 = 145.43 + 6.49 \cdot 10^{-3} \cdot T - 3.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S^0_{298} = 366.2 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$



$$\Delta H^0_{298} = -1110 \text{ kJ}\cdot\text{mol}^{-1} [7]$$

$$S^0_{298} = 222 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [7]$$

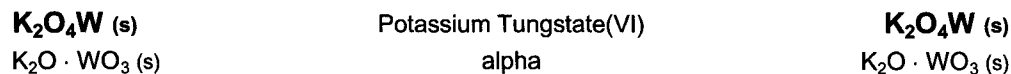


$$\text{mp} = 1196 \text{ K} (923 \text{ }^\circ\text{C})$$

$$\Delta H^0_{298} = -1581.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 113.39 + 125.52 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 650 \text{ K}) [4]$$

$$S^0_{298} = 175.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$



$$\Delta H^0_{650} = -1520.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S^0_{650} = 308.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₄W (s)	Potassium Tungstate(VI)	K₂O₄W (s)
K ₂ O · WO ₃ (s)	beta	K ₂ O · WO ₃ (s)

$$\Delta H_{650}^0 = -1510.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 194.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (650 \text{ K}) [4]$$

$$S_{650}^0 = 324.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₄W (s)	Potassium Tungstate(VI)	K₂O₄W (s)
K ₂ O · WO ₃ (s)	beta	K ₂ O · WO ₃ (s)

$$\Delta H_{1196}^0 = -1404 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1196}^0 = 443 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₄W (l)	Potassium Tungstate(VI)	K₂O₄W (l)
K ₂ O · WO ₃ (l)		K ₂ O · WO ₃ (l)

$$\Delta H_{1196}^0 = -1373.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 213.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1196 \text{ K}) [4]$$

$$S_{1196}^0 = 468.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₅Si₂ (s)	Potassium Silicate	K₂O₅Si₂ (s)
K ₂ O · 2SiO ₂ (s)	alpha	K ₂ O · 2SiO ₂ (s)

$$\text{mp} = 1318 \text{ K} (1045 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2509.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 191.84 + 36.57 \cdot 10^{-3} \cdot T - 3.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 510 \text{ K}) [4]$$

$$S_{298}^0 = 190.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₅Si₂ (s)	Potassium Silicate	K₂O₅Si₂ (s)
K ₂ O · 2SiO ₂ (s)	alpha	K ₂ O · 2SiO ₂ (s)

$$\Delta H_{510}^0 = -2471 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{510}^0 = 287.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₅Si₂ (s)	Potassium Silicate	K₂O₅Si₂ (s)
K ₂ O · 2SiO ₂ (s)	beta	K ₂ O · 2SiO ₂ (s)

$$\Delta H_{510}^0 = -2469.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 157.99 + 90.84 \cdot 10^{-3} \cdot T - 1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (510 \dots 867 \text{ K}) [4]$$

$$S_{510}^0 = 290 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)	Potassium Silicate beta	K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)
$\Delta H_{867}^0 = -2391.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{867}^0 = 405 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)	Potassium Silicate gamma	K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)
$\Delta H_{867}^0 = -2390.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 224.22 + 4.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (867 ... 1318 K) [4]		$S_{867}^0 = 406.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)	Potassium Silicate gamma	K₂O₅Si₂ (s) K ₂ O · 2SiO ₂ (s)
$\Delta H_{1318}^0 = -2286.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1318}^0 = 502.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₅Si₂ (l) K ₂ O · 2SiO ₂ (l)	Potassium Silicate	K₂O₅Si₂ (l) K ₂ O · 2SiO ₂ (l)
$\Delta H_{1318}^0 = -2251.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 275.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1318 K) [4]		$S_{1318}^0 = 529.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₇S₂ (s) K ₂ S ₂ O ₇ (s)	Potassium Disulfate	K₂O₇S₂ (s) K ₂ S ₂ O ₇ (s)
$\Delta H_{298}^0 = -1987 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 255 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
K₂O₈S₂ (s) K ₂ S ₂ O ₈ (s)	Potassium Peroxydisulfate	K₂O₈S₂ (s) K ₂ S ₂ O ₈ (s)
$\Delta H_{298}^0 = -1916 \text{ kJ}\cdot\text{mol}^{-1}$ [7] $C_p^0 = 213 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		$S_{298}^0 = 279 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]

K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)	Potassium Silicate alpha	K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)
mp = 1043 K (770 °C)		
$\Delta H_{298}^0 = -4314.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 265.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 253.22 + 159.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 865 K) [4]		
K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)	Potassium Silicate alpha	K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)
$\Delta H_{865}^0 = -4118.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{865}^0 = 625.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)	Potassium Silicate beta	K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)
$\Delta H_{865}^0 = -4115.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{865}^0 = 629.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 391.37 + 16.19 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (865 ... 1043 K) [4]		
K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)	Potassium Silicate beta	K₂O₉Si₄ (s) K ₂ O · 4SiO ₂ (s)
$\Delta H_{1043}^0 = -4042.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1043}^0 = 705.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
K₂O₉Si₄ (l) K ₂ O · 4SiO ₂ (l)	Potassium Silicate	K₂O₉Si₄ (l) K ₂ O · 4SiO ₂ (l)
$\Delta H_{1043}^0 = -3954.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1043}^0 = 790 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 410.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1043 K) [4]		
K₂S (s)	Potassium Sulfide	K₂S (s)
mp = 1221 K (948 °C)		
$\Delta H_{298}^0 = -376.6 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 115.1 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 66.9 + 26.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
K₂S (s)	Potassium Sulfide	K₂S (s)
$\Delta H_{1221}^0 = -279.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1221}^0 = 249.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

K₂S (l)	Potassium Sulfide	K₂S (l)
$\Delta H_{1221}^0 = -263.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1221}^0 = 262.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1221 K) [4]		
K₂S (l)	Potassium Sulfide	K₂S (l)
$\Delta H_{298}^0 = -346.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 141.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
K₂Se (s)	Potassium Selenide	K₂Se (s)
$\Delta H_{298}^0 = -384.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [125.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
K₂Te (s)	Potassium Telluride	K₂Te (s)
$\Delta H_{298}^0 = [-334.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [131.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
K₃O₄P (s) K ₃ PO ₄ (s)	Potassium Phosphate	K₃O₄P (s) K ₃ PO ₄ (s)
mp = 1613 K (1340 °C)		
$\Delta H_{298}^0 = -1988.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 211.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 185.69 + 41.46 \cdot 10^{-3} \cdot T - 2.97 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
K₃P₇ (s)	Potassium Phosphide	K₃P₇ (s)
$\Delta H_{298}^0 = -114 \pm 16 \text{ kJ}\cdot\text{mol}^{-1}$ [10]		$S_{298}^0 = 612 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [10]
Kr (g)	Krypton	Kr (g)
mp = 116 K (-157 °C)		bp = 120 K (-153 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 164.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

La (s)	Lanthanum alpha	La (s)
mp = 1193 K (920 °C)		bp = 3730 K (3457 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 56.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 26.44 + 2.33 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 550 K) [4]		

La (s)	Lanthanum alpha	La (s)
$\Delta H_{550}^0 = 6.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{550}^0 = 73.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 27.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (550 K) [4]		

La (s)	Lanthanum beta	La (s)
$\Delta H_{550}^0 = 7.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{550}^0 = 74.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 17.66 + 15.02 \cdot 10^{-3} \cdot T + 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (550 ... 1134 K) [4]		

La (s)	Lanthanum beta	La (s)
$\Delta H_{1134}^0 = 25.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1134}^0 = 96.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1134 K) [4]		

La (s)	Lanthanum gamma	La (s)
$\Delta H_{1134}^0 = 28.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1134}^0 = 99.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1134 K) [4]		

La (s)	Lanthanum gamma	La (s)
$\Delta H_{1193}^0 = 30.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1193}^0 = 101.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1193 K) [4]		

La (l)	Lanthanum	La (l)
$\Delta H_{1193}^0 = 37 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1193}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1193 K) [4]		
$\lg(p, K) = -22.05 \cdot 10^3 \cdot T^{-1} - 0.3 \cdot \lg(T) + 6.99$ (1500 ... 2000 K) [4]		
{Reaction: evaporation as La(g)}		
La (g)	Lanthanum	La (g)
$\Delta H_{298}^0 = 431 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 182.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 18.91 + 16.49 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
LaMg (s)	Lanthanum Magnesium	LaMg (s)
mp = 1018 K (745 °C)		
$\Delta H_{298}^0 = -18 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 93.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 50.71 + 19.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1018 K) [4]		
LaN (s)	Lanthanum Nitride	LaN (s)
$\Delta H_{298}^0 = -299.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 60.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.52 + 7.28 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
LaO (g)	Lanthanum Oxide	LaO (g)
$\Delta H_{298}^0 = -121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 239.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
LaO₄P (s)	Lanthanum Phosphate	LaO₄P (s)
LaPO ₄ (s)		LaPO ₄ (s)
$\Delta H_{298}^0 = -1912.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 125.52 + 24.9 \cdot 10^{-3} \cdot T - 2.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
LaPd₃S₄ (s)	Lanthanum Palladium Sulfide	LaPd₃S₄ (s)
$\Delta H_{298}^0 = -817.6 \text{ kJ}\cdot\text{mol}^{-1}$ [275]		$S_{298}^0 = [242.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [277]
$C_p^0 = [181.94] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

LaRh (g)	Lanthanum Rhodium	LaRh (g)
$\Delta H_{298}^0 = 454 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
LaS (s)	Lanthanum Sulfide	LaS (s)
mp = 2448 K (2175 °C)		
$\Delta H_{298}^0 = -464.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 73.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.48 + 5.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2448 K) [4]		
LaS (g)	Lanthanum Sulfide	LaS (g)
$\Delta H_{298}^0 = 119.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 252.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.06 + 0.18 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
LaS₂ (s)	Lanthanum Sulfide	LaS₂ (s)
$\Delta H_{298}^0 = -623.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [89.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
LaSe (s)	Lanthanum Selenide	LaSe (s)
mp = 2250 K (1977 °C)		
$\Delta H_{298}^0 = -359.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.45 + 5.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
LaSe (g)	Lanthanum Selenide	LaSe (g)
$\Delta H_{298}^0 = 187.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 263.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.34 + 0.04 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
LaTe (s)	Lanthanum Telluride	LaTe (s)
mp = 1993 K (1720 °C)		
$\Delta H_{298}^0 = -301.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 88.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.12 + 6.15 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

LaTe (g)	Lanthanum Telluride	LaTe (g)
$\Delta H_{298}^0 = 257.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 270.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.38 + 0.02 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
La₂ (g)	Lanthanum	La₂ (g)
$\Delta H_{298}^0 = 615 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
La₂O₃ (s)	Lanthanum Oxide	La₂O₃ (s)
mp = 2553 K (2280 °C)		
$\Delta H_{298}^0 = -1793.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 127.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.7 + 14.23 \cdot 10^{-3} \cdot T - 1.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
La₂O₇Si₂ (s) La ₂ Si ₂ O ₇ (s)	Lanthanum Silicate beta	La₂O₇Si₂ (s) La ₂ Si ₂ O ₇ (s)
$\Delta H_{298}^0 = -3815.7 \pm 4.5 \text{ kJ}\cdot\text{mol}^{-1}$ [103]		$S_{298}^0 = [214.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [105, 8]
La₂O₇Zr₂ (s) La ₂ Zr ₂ O ₇ (s)	Lanthanum Zirconate	La₂O₇Zr₂ (s) La ₂ Zr ₂ O ₇ (s)
$\Delta H_{298}^0 = -4130.4 \pm 6.8 \text{ kJ}\cdot\text{mol}^{-1}$ [264]		$S_{298}^0 = [228.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [265, 8]
$C_p^0 = [221.18] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
La₂O₉Se₃ (s) La ₂ (SeO ₃) ₃ (s)	Lanthanum Selenite	La₂O₉Se₃ (s) La ₂ (SeO ₃) ₃ (s)
$\Delta H_{298}^0 = -2879.4 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = 338.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [96]
La₂O₁₂Mo₃ (s) La ₂ O ₃ · 3MoO ₃ (s)	Lanthanum Molybdate(VI)	La₂O₁₂Mo₃ (s) La ₂ O ₃ · 3MoO ₃ (s)
mp = 1288 K (1015 °C)		
$\Delta H_{298}^0 = -4323.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 389.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 329.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

La₂O₁₂S₃ (s) La ₂ (SO ₄) ₃ (s)	Lanthanum Sulfate	La₂O₁₂S₃ (s) La ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -3941.3 \text{ kJ}\cdot\text{mol}^{-1}$ [96]		$S_{298}^0 = [287.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [98]
La₂S₃ (s)	Lanthanum Sulfide	La₂S₃ (s)
mp = 2190 K (1917 °C)		
$\Delta H_{298}^0 = -1205 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 165 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 116.52 + 14.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
La₂Se₃ (s)	Lanthanum Selenide	La₂Se₃ (s)
mp = 1900 K (1627 °C)		
$\Delta H_{298}^0 = -933 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 202.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 120.71 + 16.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1900 K) [4]		
La₂Te₃ (s)	Lanthanum Telluride	La₂Te₃ (s)
mp = 1760 K (1487 °C)		
$\Delta H_{298}^0 = -784.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 231.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 128.16 + 13.39 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1760 K) [4]		
La₃Se₄ (s)	Lanthanum Selenide	La₃Se₄ (s)
mp = 2120 K (1847 °C)		
$\Delta H_{298}^0 = [-1317.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [282.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Li (s)	Lithium	Li (s)
mp = 454 K (181 °C)		bp = 1605 K (1332 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 29.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 1.3 + 56.31 \cdot 10^{-3} \cdot T + 0.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 454 K) [4]		
Li (s)	Lithium	Li (s)
$\Delta H_{454}^0 = 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{454}^0 = 40.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Li (l)	Lithium	Li (l)
$\Delta H_{454}^0 = 7.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{454}^0 = 47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 26.76 + 1.49 \cdot 10^{-3} \cdot T + 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (454 K) [4]		
Li (l)	Lithium	Li (l)
$\Delta H_{298}^0 = 2.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 33.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.76 + 1.49 \cdot 10^{-3} \cdot T + 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (454 K) [4]		
Li (g)	Lithium	Li (g)
$\Delta H_{298}^0 = 159.3 \pm 1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 138.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.72 + 0.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -8.32 \cdot 10^3 \cdot T^{-1} - 1.03 \cdot \lg(T) + 8.44$ (600 ... 1605 K) [4]		
{Reaction: evaporation of Li(l)}		
LiN (g)	Lithium Nitride	LiN (g)
$\Delta H_{298}^0 = 334.7 \pm 167 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 208.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
LiNO (g) LiON (g)	Lithium Oxynitride	LiNO (g) LiON (g)
$\Delta H_{298}^0 = 179.9 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 245.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
LiNO₃ (s)	Lithium Nitrate	LiNO₃ (s)
mp = 526 K (253 °C)		
$\Delta H_{298}^0 = -483.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 90 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.68 + 88.7 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 526 K) [4]		
LiNO₃ (s)	Lithium Nitrate	LiNO₃ (s)
$\Delta H_{526}^0 = -460.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{526}^0 = 145.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

LiNO₃ (l)	Lithium Nitrate	LiNO₃ (l)
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$$\Delta H_{526}^0 = -434.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 111.29 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (526 \text{ K}) [4]$$

$$S_{526}^0 = 195.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

LiNaO (s) NaLiO (s)	Lithium Sodium Oxide	LiNaO (s) NaLiO (s)
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$$\Delta H_{298}^0 = -104.6 \pm 125.5 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 43.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 256.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

LiO (g)	Lithium Oxide	LiO (g)
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$$\Delta H_{298}^0 = 75.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 36.79 + 0.81 \cdot 10^{-3} \cdot T - 0.43 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 211 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Li₂ (g)	Lithium	Li₂ (g)
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$$\Delta H_{298}^0 = 210.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 37.22 + 1.45 \cdot 10^{-3} \cdot T - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.02 \cdot 10^3 \cdot T^{-1} - 2.38 \cdot \lg(T) + 13.51 (800 \dots 1605 \text{ K}) [4]$$

{Reaction: evaporation of Li(l)}

$$S_{298}^0 = 197 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Li₂MoO₄ (s)	Lithium Molybdate	Li₂MoO₄ (s)
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$$\Delta H_{298}^0 = -1519.2 \pm 2.2 \text{ kJ}\cdot\text{mol}^{-1} [84]$$

$$C_p^0 = [129.70] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [188]$$

$$S_{298}^0 = [126] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [86]$$

Li₂Nb₂O₆ (s) Li ₂ O · Nb ₂ O ₅ (s)	Lithium Niobate(V)	Li₂Nb₂O₆ (s) Li ₂ O · Nb ₂ O ₅ (s)
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$$\text{mp} = 1527 \text{ K} (1254 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2730.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 229.87 + 48.7 \cdot 10^{-3} \cdot T - 4.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1527 \text{ K}) [4]$$

$$S_{298}^0 = 170.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Li₂NpO₄ (s) Li ₂ O · NpO ₃ (s)	Lithium Neptunium Oxide	Li₂NpO₄ (s) Li ₂ O · NpO ₃ (s)
$\Delta H_{298}^0 = -1827.8 \pm 5.6 \text{ kJ}\cdot\text{mol}^{-1}$ [14]		$S_{298}^0 = [136.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [228, 8]
$C_p^0 = [135.38] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Li₂O (s)	Lithium Oxide	Li₂O (s)
mp = 1843 K (1570 °C)		bp = 2724 K (2451 °C)
$\Delta H_{298}^0 = -598 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 37.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 69.79 + 17.66 \cdot 10^{-3} \cdot T - 1.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1843 K) [4]		
Li₂O (s)	Lithium Oxide	Li₂O (s)
$\Delta H_{1843}^0 = -466.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1843}^0 = 181.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O (l)	Lithium Oxide	Li₂O (l)
$\Delta H_{1843}^0 = -423 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1843}^0 = 205.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 97.07 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1843 K) [4]		
Li₂O (l)	Lithium Oxide	Li₂O (l)
$\Delta H_{298}^0 = -553.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Li₂O (g)	Lithium Oxide	Li₂O (g)
$\Delta H_{298}^0 = -160.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 231.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.46 + 0.84 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2724 K) [4]		
Li₂O₂ (s)	Lithium Peroxide	Li₂O₂ (s)
$\Delta H_{298}^0 = -632.6 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 56.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 71.46 + 49.79 \cdot 10^{-3} \cdot T - 1.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 436 K) [4]		
$\lg(p,K) = -3.88 \cdot 10^3 \cdot T^{-1} - 0.55 \cdot \lg(T) + 10.35$ (298 ... 436 K) [4]		
{Reaction: decomposition $2\text{Li}_2\text{O}_2(\text{s}) = 2\text{Li}_2\text{O}(\text{s}) + \text{O}_2(\text{g})$ }		

Li₂O₂ (g)	Lithium Peroxide	Li₂O₂ (g)
$\Delta H_{298}^0 = -242.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 273.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Li₂O₃Si (s)	Lithium Silicate	Li₂O₃Si (s)
Li ₂ O · SiO ₂ (s)		Li ₂ O · SiO ₂ (s)
mp = 1474 K (1201 °C)		
$\Delta H_{298}^0 = -1649.5 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 80.3 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 118.78 + 41.25 \cdot 10^{-3} \cdot T - 2.72 \cdot 10^6 \cdot T^{-2} - 6.11 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1474 K) [4]		
Li₂O₃Si (s)	Lithium Silicate	Li₂O₃Si (s)
Li ₂ O · SiO ₂ (s)		Li ₂ O · SiO ₂ (s)
$\Delta H_{1474}^0 = -1480.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1474}^0 = 297.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₃Si (l)	Lithium Silicate	Li₂O₃Si (l)
Li ₂ O · SiO ₂ (l)		Li ₂ O · SiO ₂ (l)
$\Delta H_{1474}^0 = -1452.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1474}^0 = 316.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1474 K) [4]		
Li₂O₃Si (l)	Lithium Silicate	Li₂O₃Si (l)
Li ₂ O · SiO ₂ (l)		Li ₂ O · SiO ₂ (l)
$\Delta H_{298}^0 = -1625.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 96.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 100.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Li₂O₃Ti (s)	Lithium Titanium Oxide alpha	Li₂O₃Ti (s)
Li ₂ O · TiO ₂ (s)		Li ₂ O · TiO ₂ (s)
mp = 1809 K (1536 °C)		
$\Delta H_{298}^0 = -1671.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 91.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 143.39 + 13.22 \cdot 10^{-3} \cdot T - 3.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1485 K) [4]		

Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)	Lithium Titanium Oxide alpha	Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)
$\Delta H_{1485}^0 = -1496.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1485}^0 = 319.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)	Lithium Titanium Oxide beta	Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)
$\Delta H_{1485}^0 = -1485 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 125.52 + 33.47 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1485 ... 1809 K) [4]		$S_{1485}^0 = 327.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)	Lithium Titanium Oxide beta	Li₂O₃Ti (s) Li ₂ O · TiO ₂ (s)
$\Delta H_{1809}^0 = -1426.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1809}^0 = 363 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₃Ti (l) Li ₂ O · TiO ₂ (l)	Lithium Titanium Oxide	Li₂O₃Ti (l) Li ₂ O · TiO ₂ (l)
$\Delta H_{1809}^0 = -1316.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 200.83 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1809 K) [4]		$S_{1809}^0 = 423.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₃Ti (l) Li ₂ O · TiO ₂ (l)	Lithium Titanium Oxide	Li₂O₃Ti (l) Li ₂ O · TiO ₂ (l)
$\Delta H_{298}^0 = -1566.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 109.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 147.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Li₂O₃Zr (s) Li ₂ O · ZrO ₂ (s)	Lithium Zirconium Oxide	Li₂O₃Zr (s) Li ₂ O · ZrO ₂ (s)
mp = 1883 K (1610 °C) $\Delta H_{298}^0 = -1762.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 132.13 + 32.97 \cdot 10^{-3} \cdot T - 2.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1883 K) [4]		$S_{298}^0 = 91.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Li₂O₄S (s) Li ₂ SO ₄ (s)	Lithium Sulfate alpha	Li₂O₄S (s) Li ₂ SO ₄ (s)
mp = 1130 K (857 °C) $\Delta H_{298}^0 = -1437.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 65.27 + 174.05 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 848 K) [4]		$S_{298}^0 = 113.9 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Li₂O₄S (s) Li ₂ SO ₄ (s)	Lithium Sulfate alpha	Li₂O₄S (s) Li ₂ SO ₄ (s)
$\Delta H_{848}^0 = -1346.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{848}^0 = 277.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₄S (s) Li ₂ SO ₄ (s)	Lithium Sulfate beta	Li₂O₄S (s) Li ₂ SO ₄ (s)
$\Delta H_{848}^0 = -1320.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 607.52 - 383.25 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (848 ... 1130 K) [4]		$S_{848}^0 = 308 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₄S (s) Li ₂ SO ₄ (s)	Lithium Sulfate beta	Li₂O₄S (s) Li ₂ SO ₄ (s)
$\Delta H_{1130}^0 = -1256.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1130}^0 = 374.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₄S (l) Li ₂ SO ₄ (l)	Lithium Sulfate	Li₂O₄S (l) Li ₂ SO ₄ (l)
$\Delta H_{1130}^0 = -1247.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 207.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1130 K) [4]		$S_{1130}^0 = 382.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₄S (s) Li ₂ SO ₄ (s)	Lithium Sulfate beta	Li₂O₄S (s) Li ₂ SO ₄ (s)
$\Delta H_{298}^0 = -1425.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 129.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 113.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

Li₂O₄S (l) Li ₂ SO ₄ (l)	Lithium Sulfate	Li₂O₄S (l) Li ₂ SO ₄ (l)
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$$\Delta H_{298}^0 = -1399.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 117.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

$$S_{298}^0 = 154.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Li₂O₄S (g) Li ₂ SO ₄ (g)	Lithium Sulfate	Li₂O₄S (g) Li ₂ SO ₄ (g)
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$$\Delta H_{298}^0 = -1041.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$C_p^0 = 144.18 + 7.13 \cdot 10^{-3} \cdot T - 4.31 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$S_{298}^0 = 322.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

Li₂O₄U (s) Li ₂ UO ₄ (s)	Lithium Uranium Oxide	Li₂O₄U (s) Li ₂ UO ₄ (s)
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$$\Delta H_{298}^0 = -1967.5 \pm 2 \text{ kJ}\cdot\text{mol}^{-1} [150]$$

$$C_p^0 = [135.38] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

$$S_{298}^0 = [136.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [153]$$

Li₂O₄W (s) Li ₂ O · WO ₃ (s)	Lithium Tungstate(VI) alpha	Li₂O₄W (s) Li ₂ O · WO ₃ (s)
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$$\text{mp} = 1013 \text{ K} (740 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1603.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 101.67 + 106.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 948 \text{ K}) [4]$$

$$S_{298}^0 = 113 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Li₂O₄W (s) Li ₂ O · WO ₃ (s)	Lithium Tungstate(VI) alpha	Li₂O₄W (s) Li ₂ O · WO ₃ (s)
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$$\Delta H_{948}^0 = -1494.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{948}^0 = 299.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Li₂O₄W (s) Li ₂ O · WO ₃ (s)	Lithium Tungstate(VI) beta	Li₂O₄W (s) Li ₂ O · WO ₃ (s)
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$$\Delta H_{948}^0 = -1491.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 199.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (948 \dots 1013 \text{ K}) [4]$$

$$S_{948}^0 = 302.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Li₂O₄W (s) Li ₂ O · WO ₃ (s)	Lithium Tungstate(VI) beta	Li₂O₄W (s) Li ₂ O · WO ₃ (s)
$\Delta H^0_{1013} = -1479 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1013} = 315.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₄W (l) Li ₂ O · WO ₃ (l)	Lithium Tungstate(VI)	Li₂O₄W (l) Li ₂ O · WO ₃ (l)
$\Delta H^0_{1013} = -1450.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 205.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1013 K) [4]		$S^0_{1013} = 343.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)	Lithium Silicate alpha	Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)
mp = 1307 K (1034 °C) $\Delta H^0_{298} = -2560.9 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 190.41 + 58.24 \cdot 10^{-3} \cdot T - 6.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1209 K) [4]		$S^0_{298} = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)	Lithium Silicate alpha	Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)
$\Delta H^0_{1209} = -2363 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1209} = 412.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)	Lithium Silicate beta	Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)
$\Delta H^0_{1209} = -2362 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 214.14 + 26.19 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1209 ... 1307 K) [4]		$S^0_{1209} = 413.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)	Lithium Silicate beta	Li₂O₅Si₂ (s) Li ₂ O · 2SiO ₂ (s)
$\Delta H^0_{1307} = -2337.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1307} = 432.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Li₂O₅Si₂ (l) Li ₂ O · 2SiO ₂ (l)	Lithium Silicate	Li₂O₅Si₂ (l) Li ₂ O · 2SiO ₂ (l)
$\Delta H^0_{1307} = -2284 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 251.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1307 K) [4]		$S^0_{1307} = 473.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₅Si₂ (l) Li ₂ O · 2SiO ₂ (l)	Lithium Silicate	Li₂O₅Si₂ (l) Li ₂ O · 2SiO ₂ (l)
$\Delta H^0_{298} = -2513.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S^0_{298} = 160.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Li₂O₆Ta₂ (s) Li ₂ O · Ta ₂ O ₅ (s)	Lithium Tantalate(V)	Li₂O₆Ta₂ (s) Li ₂ O · Ta ₂ O ₅ (s)
mp = 1923 K (1650 °C) $\Delta H^0_{298} = -2838.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 235.56 + 39.08 \cdot 10^{-3} \cdot T - 4.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1923 K) [4]		$S^0_{298} = 179.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂O₁₀U₃ (s) Li ₂ O · 3UO ₃ (s)	Lithium Uranium Oxide	Li₂O₁₀U₃ (s) Li ₂ O · 3UO ₃ (s)
$\Delta H^0_{298} = -4437.6 \pm 3.6 \text{ kJ}\cdot\text{mol}^{-1}$ [150] $C_p^0 = [297.70] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S^0_{298} = [334] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [152]
Li₂S (s)	Lithium Sulfide	Li₂S (s)
mp = 1223 K (950 °C) $\Delta H^0_{298} = -441.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 66.32 + 20.17 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1223 K) [4]		$S^0_{298} = 60.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Li₂Se (s)	Lithium Selenide	Li₂Se (s)
mp = 1375 K (1102 °C) $\Delta H^0_{298} = -420.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 74.81 + 10.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		$S^0_{298} = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Li₂Te (s)	Lithium Telluride	Li₂Te (s)
mp = 1477 K (1204 °C)		
$\Delta H_{298}^0 = -355.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 77.4 + 16.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Li₃N (s)	Lithium Nitride	Li₃N (s)
mp = 1088 K (815 °C)		
$\Delta H_{298}^0 = -164.6 \pm 1.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 62.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.53 + 85.77 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1088 K) [4]		
Li₄O₄Si (s)	Lithium Silicate	Li₄O₄Si (s)
2Li ₂ O · SiO ₂ (s)		2Li ₂ O · SiO ₂ (s)
mp = 1528 K (1255 °C)		
$\Delta H_{298}^0 = -2330.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 121.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 137.32 + 68.33 \cdot 10^{-3} \cdot T - 0.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1528 K) [4]		
Li₄O₅U (s)	Lithium Uranium Oxide	Li₄O₅U (s)
Li ₄ UO ₅ (s)		Li ₄ UO ₅ (s)
$\Delta H_{298}^0 = -2639.7 \text{ kJ}\cdot\text{mol}^{-1}$ [150]		$S_{298}^0 = [174] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [151]
$C_p^0 = [189.60] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
Lu (s)	Lutetium	Lu (s)
mp = 1936 K (1663 °C)		bp = 3664 K (3391 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 51 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 27.41 - 5.4 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} + 8.28 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1936 K) [4]		
$\lg(p,K) = -23.44 \cdot 10^3 \cdot T^{-1} - 2.16 \cdot \lg(T) + 14.38$ (1500 ... 1936 K) [4]		
{Reaction: evaporation as Lu(g)}		
Lu (s)	Lutetium	Lu (s)
$\Delta H_{1936}^0 = 55.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1936}^0 = 108.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1936 K) [4]		

Lu (l)	Lutetium	Lu (l)
$\Delta H_{1936}^0 = 73.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1936}^0 = 118.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1936 K) [4]		
$\lg(p, K) = -22.87 \cdot 10^3 \cdot T^{-1} - 2.7 \cdot \lg(T) + 15.87$ (1936 ... 2000 K) [4]		
{Reaction: evaporation as Lu(g)}		
Lu (g)	Lutetium	Lu (g)
$\Delta H_{298}^0 = 427.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 184.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 16.92 + 13.4 \cdot 10^{-3} \cdot T + 0.01 \cdot 10^6 \cdot T^{-2} - 4.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
LuS (s)	Lutetium Sulfide	LuS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [62.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
LuS (g)	Lutetium Sulfide	LuS (g)
$\Delta H_{298}^0 = 202.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [253.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.13] + [0.15] \cdot 10^{-3} \cdot T + [-0.25] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
LuSe (s)	Lutetium Selenide	LuSe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
LuSe (g)	Lutetium Selenide	LuSe (g)
$\Delta H_{298}^0 = 245.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [263.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.28] + [0.07] \cdot 10^{-3} \cdot T + [-0.18] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
LuTe (s)	Lutetium Telluride	LuTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [82.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
LuTe (g)	Lutetium Telluride	LuTe (g)
$\Delta H_{298}^0 = 314.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [272.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		

Lu₂O₃ (s)	Lutetium Oxide	Lu₂O₃ (s)
mp = 2723 K (2450 °C)		
$\Delta H_{298}^0 = -1878.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.46 + 9.62 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Lu₂S₃ (s)	Lutetium Sulfide	Lu₂S₃ (s)
$\Delta H_{298}^0 = [-1242.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [161.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Lu₂Se₃ (s)	Lutetium Selenide	Lu₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [198.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Lu₂Te₃ (s)	Lutetium Telluride	Lu₂Te₃ (s)
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [219.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Mg (s)	Magnesium	Mg (s)
mp = 923 K (650 °C)		bp = 1366 K (1093 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 32.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.39 + 11.78 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 923 K) [4]		
$\lg(p,K) = -7.88 \cdot 10^3 \cdot T^{-1} - 1.15 \cdot \lg(T) + 9.55$ (600 ... 923 K) [4]		
{Reaction: evaporation as Mg(g)}		
Mg (s)	Magnesium	Mg (s)
$\Delta H_{923}^0 = 17.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg (l)	Magnesium	Mg (l)
$\Delta H_{923}^0 = 26.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 73.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (923 K) [4]		
$\lg(p,K) = -7.63 \cdot 10^3 \cdot T^{-1} - 1.63 \cdot \lg(T) + 10.69$ (923 ... 1366 K) [4]		
{Reaction: evaporation as Mg(g)}		

Lu₂O₃ (s)	Lutetium Oxide	Lu₂O₃ (s)
mp = 2723 K (2450 °C)		
$\Delta H_{298}^0 = -1878.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.46 + 9.62 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Lu₂S₃ (s)	Lutetium Sulfide	Lu₂S₃ (s)
$\Delta H_{298}^0 = [-1242.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [161.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Lu₂Se₃ (s)	Lutetium Selenide	Lu₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [198.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Lu₂Te₃ (s)	Lutetium Telluride	Lu₂Te₃ (s)
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [219.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Mg (s)	Magnesium	Mg (s)
mp = 923 K (650 °C)		bp = 1366 K (1093 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 32.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.39 + 11.78 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 923 K) [4]		
$\lg(p, K) = -7.88 \cdot 10^3 \cdot T^{-1} - 1.15 \cdot \lg(T) + 9.55$ (600 ... 923 K) [4]		
{Reaction: evaporation as Mg(g)}		
Mg (s)	Magnesium	Mg (s)
$\Delta H_{923}^0 = 17.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg (l)	Magnesium	Mg (l)
$\Delta H_{923}^0 = 26.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{923}^0 = 73.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (923 K) [4]		
$\lg(p, K) = -7.63 \cdot 10^3 \cdot T^{-1} - 1.63 \cdot \lg(T) + 10.69$ (923 ... 1366 K) [4]		
{Reaction: evaporation as Mg(g)}		

Mg (l)	Magnesium	Mg (l)
$\Delta H_{298}^0 = 4.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 34.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (923 K) [4]		
Mg (g)	Magnesium	Mg (g)
$\Delta H_{298}^0 = 147.1 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 148.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
MgMoO₄ (s)	Magnesium Molybdate	MgMoO₄ (s)
MgO · MoO ₃ (s)		MgO · MoO ₃ (s)
mp = 1503 K (1230 °C)		
$\Delta H_{298}^0 = -1400.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 118.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 133.01 + 27.78 \cdot 10^{-3} \cdot T - 2.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1503 K) [4]		
MgN (g)	Magnesium Nitride	MgN (g)
$\Delta H_{298}^0 = 288.7 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 224.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
MgN₂O₆ (s)	Magnesium Nitrate	MgN₂O₆ (s)
Mg(NO ₃) ₂ (s)		Mg(NO ₃) ₂ (s)
$\Delta H_{298}^0 = -790.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 164 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.69 + 297.9 \cdot 10^{-3} \cdot T + 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 577 K) [4]		
MgNi₂ (s)	Magnesium Nickel	MgNi₂ (s)
mp = 1420 K (1147 °C)		
$\Delta H_{298}^0 = -56.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 88.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 79.96 + 19.51 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1420 K) [4]		

MgO (s)	Magnesium Oxide Periclase	MgO (s)
mp = 3105 K (2832 °C)		
$\Delta H_{298}^0 = -601.2 \pm 0.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 26.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49 + 3.43 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3105 K) [4]		
MgO (l)	Magnesium Oxide	MgO (l)
$\Delta H_{298}^0 = -532.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 48.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
MgO (g)	Magnesium Oxide	MgO (g)
$\Delta H_{298}^0 = 58.2 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 213.3 \pm 3.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
MgO₃Se (s) MgSeO ₃ (s)	Magnesium Selenite	MgO₃Se (s) MgSeO ₃ (s)
$\Delta H_{298}^0 = -900.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate alpha	MgO₃Si (s) MgO · SiO ₂ (s)
mp = 1850 K (1577 °C)		
$\Delta H_{298}^0 = -1548.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 67.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 92.05 + 33.05 \cdot 10^{-3} \cdot T - 1.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 903 K) [4]		
MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate alpha	MgO₃Si (s) MgO · SiO ₂ (s)
$\Delta H_{903}^0 = -1484.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{903}^0 = 180.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate beta	MgO₃Si (s) MgO · SiO ₂ (s)
$\Delta H^0_{903} = -1484.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 120.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (903 K) [4]		$S^0_{903} = 181.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate beta	MgO₃Si (s) MgO · SiO ₂ (s)
$\Delta H^0_{1258} = -1441.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1258} = 221.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate gamma	MgO₃Si (s) MgO · SiO ₂ (s)
$\Delta H^0_{1258} = -1439.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 122.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1258 K) [4]		$S^0_{1258} = 222.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MgO₃Si (s) MgO · SiO ₂ (s)	Magnesium Silicate gamma	MgO₃Si (s) MgO · SiO ₂ (s)
$\Delta H^0_{1850} = -1367.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1850} = 270.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MgO₃Si (l) MgO · SiO ₂ (l)	Magnesium Silicate	MgO₃Si (l) MgO · SiO ₂ (l)
$\Delta H^0_{1850} = -1292 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1850 K) [4]		$S^0_{1850} = 310.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MgO₃Si (l) MgO · SiO ₂ (l)	Magnesium Silicate	MgO₃Si (l) MgO · SiO ₂ (l)
$\Delta H^0_{298} = -1494.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1850 K) [4]		$S^0_{298} = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

MgO₃Ti (s) MgO · TiO ₂ (s)	Magnesium Titanate	MgO₃Ti (s) MgO · TiO ₂ (s)
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mp = 1953 K (1680 °C)

$$\Delta H_{298}^0 = -1572.6 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 74.6 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 118.53 + 13.6 \cdot 10^{-3} \cdot T - 2.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1953 \text{ K}) [4]$$

MgO₃Ti (s) MgO · TiO ₂ (s)	Magnesium Titanate	MgO₃Ti (s) MgO · TiO ₂ (s)
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$$\Delta H_{1953}^0 = -1359 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1953}^0 = 304.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

MgO₃Ti (l) MgO · TiO ₂ (l)	Magnesium Titanate	MgO₃Ti (l) MgO · TiO ₂ (l)
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$$\Delta H_{1953}^0 = -1268.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1953}^0 = 350.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 163.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1953 \text{ K}) [4]$$

MgO₃Ti (l) MgO · TiO ₂ (l)	Magnesium Titanate	MgO₃Ti (l) MgO · TiO ₂ (l)
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$$\Delta H_{298}^0 = -1497.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 111.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 91.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

MgO₄S (s) MgSO ₄ (s)	Magnesium Sulfate	MgO₄S (s) MgSO ₄ (s)
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mp = 1400 K (1127 °C)

$$\Delta H_{298}^0 = -1261.8 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 91.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 106.44 + 46.28 \cdot 10^{-3} \cdot T - 2.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1270 \text{ K}) [4]$$

MgO₄S (l) MgSO ₄ (l)	Magnesium Sulfate	MgO₄S (l) MgSO ₄ (l)
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$$\Delta H_{298}^0 = -1246.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 102.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 96.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

MgO₄U (s)	Magnesium Uranate(VI)	MgO₄U (s)
MgO · UO ₃ (s)		MgO · UO ₃ (s)

$\Delta H_{298}^0 = -1856.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 131.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 110.25 + 66.78 \cdot 10^{-3} \cdot T + 2.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]	

MgO₄W (s)	Magnesium Tungstate(VI)	MgO₄W (s)
MgO · WO ₃ (s)		MgO · WO ₃ (s)

mp = 1631 K (1358 °C)	
$\Delta H_{298}^0 = -1517.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 101.2 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 115.02 + 42.3 \cdot 10^{-3} \cdot T - 1.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1631 K) [4]	

MgO₅Ti₂ (s)	Magnesium Titanate	MgO₅Ti₂ (s)
MgO · 2TiO ₂ (s)		MgO · 2TiO ₂ (s)

mp = 1963 K (1690 °C)	
$\Delta H_{298}^0 = -2509.4 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 135.6 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 170.41 + 38.37 \cdot 10^{-3} \cdot T - 3.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1963 K) [4]	

MgO₅Ti₂ (s)	Magnesium Titanate	MgO₅Ti₂ (s)
MgO · 2TiO ₂ (s)		MgO · 2TiO ₂ (s)

$\Delta H_{1963}^0 = -2162.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1963}^0 = 503.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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MgO₅Ti₂ (l)	Magnesium Titanate	MgO₅Ti₂ (l)
MgO · 2TiO ₂ (l)		MgO · 2TiO ₂ (l)

$\Delta H_{1963}^0 = -2015.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{1963}^0 = 578 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 261.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1963 K) [4]	

MgO₅Ti₂ (l)	Magnesium Titanate	MgO₅Ti₂ (l)
MgO · 2TiO ₂ (l)		MgO · 2TiO ₂ (l)

$\Delta H_{298}^0 = -2382.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 197.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 146.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

MgO₆V₂ (s) MgO · V ₂ O ₅ (s)	Magnesium Vanadate(V)	MgO₆V₂ (s) MgO · V ₂ O ₅ (s)
mp = 1015 K (742 °C)		
$\Delta H_{298}^0 = -2200.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 160.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 231.29 - 6.09 \cdot 10^{-3} \cdot T - 6.48 \cdot 10^6 \cdot T^{-2} - 2.93 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1015 K) [4]		
MgS (s)	Magnesium Sulfide	MgS (s)
$\Delta H_{298}^0 = -345.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 48.74 + 3.64 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
MgS (g)	Magnesium Sulfide	MgS (g)
$\Delta H_{298}^0 = 145.2 \pm 66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 225.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.9 + 0.34 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
MgSe (s)	Magnesium Selenide	MgSe (s)
$\Delta H_{298}^0 = -292.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 62.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
MgTe (s)	Magnesium Telluride	MgTe (s)
$\Delta H_{298}^0 = -209.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.66 + 10.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
Mg₂ (g)	Magnesium	Mg₂ (g)
$\Delta H_{298}^0 = 287.6 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240.2 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Mg₂O₄Si (s) 2MgO · SiO ₂ (s)	Magnesium Silicate	Mg₂O₄Si (s) 2MgO · SiO ₂ (s)
mp = 2171 K (1898 °C)		
$\Delta H_{298}^0 = -2176.9 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 95.2 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 144.31 + 38.74 \cdot 10^{-3} \cdot T - 3.28 \cdot 10^6 \cdot T^{-2} - 5.48 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2171 K) [4]		

Mg₂O₄Si (l)	Magnesium Silicate	Mg₂O₄Si (l)
2MgO · SiO ₂ (l)		2MgO · SiO ₂ (l)

$$\Delta H_{298}^0 = -2113.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 205.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2171 \text{ K}) [4]$$

Mg₂O₄Ti (s)	Magnesium Titanate	Mg₂O₄Ti (s)
2MgO · TiO ₂ (s)		2MgO · TiO ₂ (s)

$$\text{mp} = 2013 \text{ K} (1740 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2164.4 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 115.1 \pm 6.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 152.37 + 34.06 \cdot 10^{-3} \cdot T - 3.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2013 \text{ K}) [4]$$

Mg₂O₄Ti (s)	Magnesium Titanate	Mg₂O₄Ti (s)
2MgO · TiO ₂ (s)		2MgO · TiO ₂ (s)

$$\Delta H_{2013}^0 = -1844.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{2013}^0 = 447.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Mg₂O₄Ti (l)	Magnesium Titanate	Mg₂O₄Ti (l)
2MgO · TiO ₂ (l)		2MgO · TiO ₂ (l)

$$\Delta H_{2013}^0 = -1714.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{2013}^0 = 512.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 228.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2013 \text{ K}) [4]$$

Mg₂O₄Ti (l)	Magnesium Titanate	Mg₂O₄Ti (l)
2MgO · TiO ₂ (l)		2MgO · TiO ₂ (l)

$$\Delta H_{298}^0 = -2046.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 172.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 128.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Mg₂O₇V₂ (s)	Magnesium Vanadate(V)	Mg₂O₇V₂ (s)
2MgO · V ₂ O ₅ (s)		2MgO · V ₂ O ₅ (s)

$$\text{mp} = 1253 \text{ K} (980 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2834.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 200 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 284.6 + 4.06 \cdot 10^{-3} \cdot T - 7.42 \cdot 10^6 \cdot T^{-2} - 5.82 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1253 \text{ K}) [4]$$

Mg₂Pb (s)	Magnesium Lead	Mg₂Pb (s)
mp = 823 K (550 °C)		
$\Delta H_{298}^0 = -48.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.9 + 34.52 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 823 K) [4]		
Mg₂Pb (s)	Magnesium Lead	Mg₂Pb (s)
$\Delta H_{823}^0 = -3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 204.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg₂Pb (l)	Magnesium Lead	Mg₂Pb (l)
$\Delta H_{823}^0 = 36.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 253.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (823 K) [4]		
Mg₂Si (s)	Magnesium Silicide	Mg₂Si (s)
mp = 1358 K (1085 °C)		
$\Delta H_{298}^0 = -77.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.35 + 14.97 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1358 K) [4]		
Mg₂Si (s)	Magnesium Silicide	Mg₂Si (s)
$\Delta H_{1358}^0 = 10.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1358}^0 = 197.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg₂Si (l)	Magnesium Silicide	Mg₂Si (l)
$\Delta H_{1358}^0 = 96.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1358}^0 = 260.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 94.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1358 K) [4]		
Mg₂Si (l)	Magnesium Silicide	Mg₂Si (l)
$\Delta H_{298}^0 = -3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 123.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Mg₂Th (s)	Magnesium Thorium	Mg₂Th (s)
$\Delta H_{298}^0 = -31.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Mg₃N₂ (s)	Magnesium Nitride alpha	Mg₃N₂ (s)
$\Delta H_{298}^0 = -461.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 86.9 + 46.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 823 K) [4]		
Mg₃N₂ (s)	Magnesium Nitride alpha	Mg₃N₂ (s)
$\Delta H_{823}^0 = -402.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 206.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg₃N₂ (s)	Magnesium Nitride beta	Mg₃N₂ (s)
$\Delta H_{823}^0 = -401.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.97 + 44.6 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (823 ... 1061 K) [4]		
Mg₃N₂ (s)	Magnesium Nitride beta	Mg₃N₂ (s)
$\Delta H_{1061}^0 = -371.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1061}^0 = 239.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg₃N₂ (s)	Magnesium Nitride gamma	Mg₃N₂ (s)
$\Delta H_{1061}^0 = -370.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1061}^0 = 239.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 119.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1061 K) [4]		

Mg₃O₈P₂ (s) 3MgO · P ₂ O ₅ (s)	Magnesium Diphosphate	Mg₃O₈P₂ (s) 3MgO · P ₂ O ₅ (s)
mp = 1621 K (1348 °C)		
$\Delta H_{298}^0 = -3745.1 \pm 10.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 188.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 121.46 + 335.77 \cdot 10^{-3} \cdot T + 0.11 \cdot 10^6 \cdot T^{-2} - 108.78 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1621 K) [4]		
Mg₃O₈P₂ (l) 3MgO · P ₂ O ₅ (l)	Magnesium Diphosphate	Mg₃O₈P₂ (l) 3MgO · P ₂ O ₅ (l)
$\Delta H_{298}^0 = -3663.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 235.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 474.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1621 K) [4]		
Mg₃Sb₂ (s)	Magnesium Antimonide alpha	Mg₃Sb₂ (s)
mp = 1518 K (1245 °C)		
$\Delta H_{298}^0 = -300 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 136.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 112.97 + 40.17 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1203 K) [4]		
Mg₃Sb₂ (s)	Magnesium Antimonide alpha	Mg₃Sb₂ (s)
$\Delta H_{1203}^0 = -170.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1203}^0 = 330.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mg₃Sb₂ (s)	Magnesium Antimonide beta	Mg₃Sb₂ (s)
$\Delta H_{1203}^0 = -97.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1203}^0 = 391.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 160.67 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1203 K) [4]		
Mn (s)	Manganese alpha	Mn (s)
mp = 1519 K (1246 °C)		bp = 2332 K (2059 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 32 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 25.19 + 12.75 \cdot 10^{-3} \cdot T - 0.33 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 980 K) [4]		

Mn (s)	Manganese alpha	Mn (s)
$\Delta H^0_{980} = 22 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{980} = 69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mn (s)	Manganese beta	Mn (s)
$\Delta H^0_{980} = 24.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{980} = 71.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.38 + 4.27 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (980 ... 1361 K) [4]		
$\lg(p,K) = -15.2 \cdot 10^3 \cdot T^{-1} - 2.12 \cdot \lg(T) + 13.91$ (980 ... 1361 K) [4]		
{Reaction: evaporation as Mn(g)}		
Mn (s)	Manganese beta	Mn (s)
$\Delta H^0_{1361} = 38.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1361} = 83.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mn (s)	Manganese gamma	Mn (s)
$\Delta H^0_{1361} = 40.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1361} = 85.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 29.99 + 9.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1361 ... 1412 K) [4]		
$\lg(p,K) = -15.43 \cdot 10^3 \cdot T^{-1} - 2.71 \cdot \lg(T) + 15.93$ (1361 ... 1412 K) [4]		
{Reaction: evaporation as Mn(g)}		
Mn (s)	Manganese gamma	Mn (s)
$\Delta H^0_{1412} = 43.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1412} = 87 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mn (s)	Manganese delta	Mn (s)
$\Delta H^0_{1412} = 45 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1412} = 88.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.63 + 8.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1412 ... 1519 K) [4]		
$\lg(p,K) = -15.51 \cdot 10^3 \cdot T^{-1} - 2.99 \cdot \lg(T) + 16.87$ (1412 ... 1519 K) [4]		
{Reaction: evaporation as Mn(g)}		

Mn (s)	Manganese delta	Mn (s)
$\Delta H_{1519}^0 = 49.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1519}^0 = 91.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Mn (l)	Manganese	Mn (l)
$\Delta H_{1519}^0 = 62 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1519}^0 = 99.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1519 K) [4]		
$\lg(p, K) = -14.9 \cdot 10^3 \cdot T^{-1} - 3.03 \cdot \lg(T) + 16.6$ (1519 ... 2332 K) [4]		
{Reaction: evaporation as Mn(g)}		
Mn (l)	Manganese	Mn (l)
$\Delta H_{298}^0 = 16.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 43.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1519 K) [4]		
Mn (g)	Manganese	Mn (g)
$\Delta H_{298}^0 = 283.3 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 173.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
MnMoO₄ (s)	Manganese Molybdate(VI)	MnMoO₄ (s)
MnO · MoO ₃ (s)		MnO · MoO ₃ (s)
$\Delta H_{298}^0 = -1191.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 136 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.78 + 51.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]		
MnO (s)	Manganese(II) Oxide	MnO (s)
mp = 2083 K (1810 °C)		
$\Delta H_{298}^0 = -382.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.48 + 8.12 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2083 K) [4]		

MnO₂ (s)	Manganese(IV) Oxide	MnO₂ (s)
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$\Delta H_{298}^0 = -522.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 53.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.84 + 7.6 \cdot 10^{-3} \cdot T - 1.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 803 K) [4]		
$\lg(p, K) = -8.99 \cdot 10^3 \cdot T^{-1} - 0.78 \cdot \lg(T) + 13.47$ (500 ... 803 K) [4]		
{Reaction: decomposition $3\text{MnO}_2(\text{s}) = \text{Mn}_3\text{O}_4(\text{s}) + \text{O}_2(\text{g})$ }		

MnO₃Si (s)	Manganese(II) Silicate	MnO₃Si (s)
MnO · SiO ₂ (s)		

mp = 1564 K (1291 °C)		$S_{298}^0 = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$\Delta H_{298}^0 = -1318.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
$C_p^0 = 110.54 + 16.23 \cdot 10^{-3} \cdot T - 2.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1564 K) [4]		

MnO₃Ti (s)	Manganese(II) Titanate	MnO₃Ti (s)
MnO · TiO ₂ (s)		

mp = 1633 K (1360 °C)		$S_{298}^0 = 105.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$\Delta H_{298}^0 = -1354.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
$C_p^0 = 121.67 + 9.29 \cdot 10^{-3} \cdot T - 2.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1633 K) [4]		

MnO₄S (s)	Manganese(II) Sulfate	MnO₄S (s)
MnSO ₄ (s)		

mp = 973 K (700 °C)		$S_{298}^0 = 112.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$\Delta H_{298}^0 = -1065.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		
$C_p^0 = 122.42 + 37.32 \cdot 10^{-3} \cdot T - 2.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 973 K) [4]		

MnO₄W (s)	Manganese(II) Tungstate	MnO₄W (s)
MnO · WO ₃ (s)		

$\Delta H_{298}^0 = -1305 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 140.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 108.78 + 51.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1100 K) [4]		

MnP (s)	Manganese Phosphide	MnP (s)
mp = 1420 K (1147 °C)		
$\Delta H_{298}^0 = -96.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 52.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.98 + 10.46 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1420 K) [4]		
MnP₃ (s)	Manganese Phosphide	MnP₃ (s)
$\Delta H_{298}^0 = -213 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 96.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 102.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
MnS (s)	Manganese(II) Sulfide	MnS (s)
mp = 1803 K (1530 °C)		
$\Delta H_{298}^0 = -213.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 80.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 47.7 + 7.53 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1803 K) [4]		
MnS (s)	Manganese(II) Sulfide	MnS (s)
$\Delta H_{1803}^0 = -129.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1803}^0 = 177.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MnS (l)	Manganese(II) Sulfide	MnS (l)
$\Delta H_{1803}^0 = -103.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1803}^0 = 192 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 66.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1803 K) [4]		
MnS (g)	Manganese(II) Sulfide	MnS (g)
$\Delta H_{298}^0 = 272 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 240.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.14 + 0.14 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
MnS₂ (s)	Manganese(IV) Sulfide	MnS₂ (s)
$\Delta H_{298}^0 = -225.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 99.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 69.71 + 17.66 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 717 K) [4]		

MnSb (s)	Manganese Antimonide	MnSb (s)
$\Delta H_{298}^0 = -27.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.02 + 20.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 843 K) [4]		
MnSe (s)	Manganese(II) Selenide	MnSe (s)
$\Delta H_{298}^0 = -154.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 90.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.04 + 6.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1600 K) [4]		
MnSe (g)	Manganese(II) Selenide	MnSe (g)
$\Delta H_{298}^0 = 318 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 252.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.33 + 0.05 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1600 K) [4]		
MnSe₂ (s)	Manganese(IV) Selenide	MnSe₂ (s)
$\Delta H_{298}^0 = [-167.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [129.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
MnSi (s)	Manganese Silicide	MnSi (s)
mp = 1548 K (1275 °C)		
$\Delta H_{298}^0 = -65.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 46.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.33 + 12.76 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1548 K) [4]		
MnSi (s)	Manganese Silicide	MnSi (s)
$\Delta H_{1548}^0 = 9.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1548}^0 = 140 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MnSi (l)	Manganese Silicide	MnSi (l)
$\Delta H_{1548}^0 = 68.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1548}^0 = 178.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1548 K) [4]		

MnSi_{1.727} (s)	Manganese Silicide	MnSi_{1.727} (s)
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mp = 1418 K (1145 °C)

$$\Delta H_{298}^0 = -75.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 56.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 71.92 + 4.6 \cdot 10^{-3} \cdot T - 1.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1418 \text{ K}) [4]$$

MnSn₂ (s)	Manganese Tin	MnSn₂ (s)
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mp = 822 K (549 °C)

$$\Delta H_{298}^0 = -27.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 130.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 92.38 + 1.26 \cdot 10^{-3} \cdot T - 1.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 822 \text{ K}) [4]$$

MnTe (s)	Manganese(II) Telluride	MnTe (s)
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mp = 1483 K (1210 °C)

$$\Delta H_{298}^0 = -111.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 93.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 56.69 + 2.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (307 \dots 1438 \text{ K}) [4]$$

MnTe₂ (s)	Manganese(IV) Telluride	MnTe₂ (s)
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$$\Delta H_{298}^0 = -123.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 145 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 76.65 + 4.18 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 700 \text{ K}) [4]$$

Mn₂Mo₃O₈ (s)	Manganese(II) Molybdate(IV)	Mn₂Mo₃O₈ (s)
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2MnO · 3MoO₂ (s)2MnO · 3MoO₂ (s)

$$\Delta H_{298}^0 = -2577.3 \pm 15.5 \text{ kJ}\cdot\text{mol}^{-1} [40]$$

$$S_{298}^0 = 254.4 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [40]$$

$$C_p^0 = 265.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [41]$$

Mn₂O₃ (s)	Manganese(III) Oxide	Mn₂O₃ (s)
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$$\Delta H_{298}^0 = -959 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 110.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 102.8 + 35.67 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1361 \text{ K}) [4]$$

$$\lg(p, K) = -11.4 \cdot 10^3 \cdot T^{-1} - 1.93 \cdot \lg(T) + 14.42 (700 \dots 1361 \text{ K}) [4]$$

{Reaction: decomposition 6Mn₂O₃(s) = 4Mn₃O₄(s) + O₂(g)}

Mn₂O₄Si (s)	Manganese(II) Silicate	Mn₂O₄Si (s)
2MnO · SiO ₂ (s)		2MnO · SiO ₂ (s)

mp = 1618 K (1345 °C)

 $\Delta H_{298}^0 = -1725.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 142.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 159.08 + 19.5 \cdot 10^{-3} \cdot T - 3.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1618 K) [4]

Mn₂O₄Si (s)	Manganese(II) Silicate	Mn₂O₄Si (s)
2MnO · SiO ₂ (s)		2MnO · SiO ₂ (s)

 $\Delta H_{1618}^0 = -1499.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1618}^0 = 420.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Mn₂O₄Si (l)	Manganese(II) Silicate	Mn₂O₄Si (l)
2MnO · SiO ₂ (l)		2MnO · SiO ₂ (l)

 $\Delta H_{1618}^0 = -1409.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{1618}^0 = 475.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 243.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1618 K) [4]

Mn₂O₄Ti (s)	Manganese(II) Titanate	Mn₂O₄Ti (s)
2MnO · TiO ₂ (s)		2MnO · TiO ₂ (s)

mp = 1723 K (1450 °C)

 $\Delta H_{298}^0 = -1749.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 169.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4] $C_p^0 = 168.16 + 17.4 \cdot 10^{-3} \cdot T - 2.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1723 K) [4]

Mn₂P (s)	Manganese Phosphide	Mn₂P (s)
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 $\Delta H_{298}^0 = -171.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 73.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]

Mn₂Sb (s)	Manganese Antimonide	Mn₂Sb (s)
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mp = 1221 K (948 °C)

 $\Delta H_{298}^0 = -32.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 136.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 66.94 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1221 K) [4]

Mn₅Si₃ (s)	Manganese Silicide	Mn₅Si₃ (s)
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mp = 1573 K (1300 °C)

$$\Delta H_{298}^0 = -244.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 238.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 201.38 + 54.14 \cdot 10^{-3} \cdot T - 1.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1573 \text{ K}) [4]$$

Mn₅Si₃ (s)	Manganese Silicide	Mn₅Si₃ (s)
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$$\Delta H_{1573}^0 = 71.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1573}^0 = 631.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Mn₅Si₃ (l)	Manganese Silicide	Mn₅Si₃ (l)
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$$\Delta H_{1573}^0 = 244.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1573}^0 = 741.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 324.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1573 \text{ K}) [4]$$

Mo (s)	Molybdenum	Mo (s)
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mp = 2896 K (2623 °C)

bp = 4950 K (4677 °C)

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 28.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 29.73 - 5.7 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} + 4.67 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2896 \text{ K}) [4]$$

$$\lg(\rho, K) = -35.85 \cdot 10^3 \cdot T^{-1} - 2.58 \cdot \lg(T) + 16.91 (2100 \dots 2896 \text{ K}) [4]$$

{Reaction: evaporation as Mo(g)}

Mo (l)	Molybdenum	Mo (l)
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$$\Delta H_{298}^0 = 41.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 43.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 40.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2893 \dots 3383 \text{ K}) [3]$$

Mo (g)	Molybdenum	Mo (g)
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$$\Delta H_{298}^0 = 659 \pm 3.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 23.48 - 4.99 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} + 1.93 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3000 \text{ K}) [4]$$

MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) alpha	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
mp = 962 K (689 °C)		
$\Delta H_{298}^0 = -1534.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 159.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 142.8 + 58.33 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 718 K) [4]		
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) alpha	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{718}^0 = -1465.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{718}^0 = 301.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) beta	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{718}^0 = -1443.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{718}^0 = 332 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -215.48 + 506.26 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (718 ... 866 K) [4]		
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) beta	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{866}^0 = -1415.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{866}^0 = 366.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) gamma	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{866}^0 = -1413.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{866}^0 = 368.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -589.94 + 891.19 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (866 ... 915 K) [4]		
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) gamma	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{915}^0 = -1403.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{915}^0 = 380.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) delta	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{915}^0 = -1395.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 210.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (915 K) [4]		$S_{915}^0 = 389.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)	Sodium Molybdate(VI) delta	MoNa₂O₄ (s) Na ₂ O · MoO ₃ (s)
$\Delta H_{962}^0 = -1385.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{962}^0 = 399.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoNa₂O₄ (l) Na ₂ O · MoO ₃ (l)	Sodium Molybdate(VI)	MoNa₂O₄ (l) Na ₂ O · MoO ₃ (l)
$\Delta H_{962}^0 = -1364.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 212.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (962 K) [4]		$S_{962}^0 = 421.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoO (g)	Molybdenum(II) Oxide	MoO (g)
$\Delta H_{298}^0 = 311 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 36.88 + 3.69 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 241.8 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
MoO₂ (s)	Molybdenum(IV) Oxide	MoO₂ (s)
$\Delta H_{298}^0 = -587.9 \pm 2.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 61.87 + 20.85 \cdot 10^{-3} \cdot T - 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 46.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
MoO₂ (g)	Molybdenum(IV) Oxide	MoO₂ (g)
$\Delta H_{298}^0 = -8.3 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 52.67 + 3.37 \cdot 10^{-3} \cdot T - 0.85 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 277 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
MoO_{2.750} (s)	Molybdenum Oxide	MoO_{2.750} (s)
$\Delta H_{298}^0 = -708.4 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 70.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 69.9 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

MoO_{2.875} (s)	Molybdenum Oxide	MoO_{2.875} (s)
$\Delta H_{298}^0 = -727.1 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 73.8 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
MoO_{2.889} (s)	Molybdenum Oxide	MoO_{2.889} (s)
$\Delta H_{298}^0 = -729.2 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 74.3 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
MoO₃ (s)	Molybdenum(VI) Oxide	MoO₃ (s)
mp = 1074 K (801 °C)		bp = 1378 K (1105 °C)
$\Delta H_{298}^0 = -745 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 77.8 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 92.42 - 14.67 \cdot 10^{-3} \cdot T - 1.41 \cdot 10^6 \cdot T^{-2} + 32.74 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1074 K) [4]		
$\lg(p, K) = -16.55 \cdot 10^3 \cdot T^{-1} - 6.16 \cdot \lg(T) + 32.16$ (800 ... 1074 K) [4]		
{Reaction: evaporation (total pressure)}		
MoO₃ (s)	Molybdenum(VI) Oxide	MoO₃ (s)
$\Delta H_{1074}^0 = -671.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1074}^0 = 195 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
MoO₃ (l)	Molybdenum(VI) Oxide	MoO₃ (l)
$\Delta H_{1074}^0 = -622.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1074}^0 = 240.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 126.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1074 K) [4]		
$\lg(p, K) = -16.83 \cdot 10^3 \cdot T^{-1} - 14.23 \cdot \lg(T) + 56.89$ (1074 ... 1378 K) [4]		
{Reaction: evaporation (total pressure)}		
MoO₃ (l)	Molybdenum(VI) Oxide	MoO₃ (l)
$\Delta H_{298}^0 = -703.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 114.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

MoO₃ (g)	Molybdenum(VI) Oxide	MoO₃ (g)
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$\Delta H_{298}^0 = -346.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 283.9 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 74.53 + 5.09 \cdot 10^{-3} \cdot T - 1.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

MoO₃Sr (s)	Strontium Molybdenum Oxide	MoO₃Sr (s)
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SrO · MoO ₂ (s)	SrO · MoO ₂ (s)
$\Delta H_{298}^0 = -1278.9 \text{ kJ}\cdot\text{mol}^{-1}$ [179]	$S_{298}^0 = [102] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [189]
$C_p^0 = [101.36] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

MoO₄Pb (s)	Lead Molybdate(VI)	MoO₄Pb (s)
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PbO · MoO ₃ (s)	PbO · MoO ₃ (s)
mp = 1213 K (940 °C)	
$\Delta H_{298}^0 = -1052.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]	$S_{298}^0 = 166.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]	

MoO₄Sr (s)	Strontium Molybdate(VI)	MoO₄Sr (s)
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SrO · MoO ₃ (s)	SrO · MoO ₃ (s)
mp = 1730 K (1457 °C)	
$\Delta H_{298}^0 = -1549.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 128.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 134.14 + 29.37 \cdot 10^{-3} \cdot T - 2.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1730 K) [4]	

MoO₄Zn (s)	Zinc Molybdate(VI)	MoO₄Zn (s)
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ZnO · MoO ₃ (s)	ZnO · MoO ₃ (s)
$\Delta H_{298}^0 = -1139 \text{ kJ}\cdot\text{mol}^{-1}$ [42]	$S_{298}^0 = 134 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [42]
$C_p^0 = 117.1 + 46.1 \cdot 10^{-3} \cdot T - 1.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [42]	

MoS₂ (s)	Molybdenum(IV) Sulfide	MoS₂ (s)
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$\Delta H_{298}^0 = -276.1 \pm 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 62.6 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 71.69 + 7.45 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2023 K) [4]	

MoS₃ (s)	Molybdenum(VI) Sulfide	MoS₃ (s)
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$$\Delta H_{298}^0 = -309.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 82.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

MoSe₂ (s)	Molybdenum(IV) Selenide	MoSe₂ (s)
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$$\Delta H_{298}^0 = -153.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 89.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 78.15 + 2.49 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1423 \text{ K}) [4]$$

MoSi₂ (s)	Molybdenum Silicide	MoSi₂ (s)
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$$\text{mp} = 2293 \text{ K} (2020 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -131.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 67.84 + 11.95 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2293 \text{ K}) [4]$$

MoTe₂ (s)	Molybdenum(IV) Telluride	MoTe₂ (s)
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$$\Delta H_{298}^0 = -80.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 115.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 84.47 + 1.08 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1453 \text{ K}) [4]$$

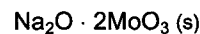
Mo₂N (s)	Molybdenum Nitride	Mo₂N (s)
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$$\Delta H_{298}^0 = -81.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 63.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 65.01 + 39.91 \cdot 10^{-3} \cdot T - 1.09 \cdot 10^6 \cdot T^{-2} - 8.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 800 \text{ K}) [4]$$

Mo₂Na₂O₇ (s)	Sodium Molybdate(VI)	Mo₂Na₂O₇ (s)
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$$\text{mp} = 888 \text{ K} (615 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2361 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 250.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 173.64 + 144.35 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 888 \text{ K}) [4]$$

Mo₂O₆ (g) (MoO ₃) ₂ (g)	Molybdenum(VI) Oxide	Mo₂O₆ (g) (MoO ₃) ₂ (g)
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$\Delta H_{298}^0 = -984.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 407.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 181.17 + 0.42 \cdot 10^{-3} \cdot T - 2.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -24.32 \cdot 10^3 \cdot T^{-1} - 8 \cdot \lg(T) + 39.29$ (1074 ... 1378 K) [4]	
{Reaction: evaporation of MoO ₃ (l)}	

Mo₂O₉Zn₃ (s) 3ZnO · 2MoO ₃ (s)	Zinc Molybdate(VI)	Mo₂O₉Zn₃ (s) 3ZnO · 2MoO ₃ (s)
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$\Delta H_{298}^0 = -2631 \text{ kJ}\cdot\text{mol}^{-1}$ [42]	$S_{298}^0 = 311.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [42]
$C_p^0 = 283.3 + 98.9 \cdot 10^{-3} \cdot T - 3.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [42]	

Mo₂S₃ (s)	Molybdenum(III) Sulfide	Mo₂S₃ (s)
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mp = 2050 K (1777 °C)	
$\Delta H_{298}^0 = -407.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 115 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 110.28 + 32.96 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2050 K) [4]	

Mo₂S₃ (l)	Molybdenum(III) Sulfide	Mo₂S₃ (l)
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$\Delta H_{298}^0 = -270.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 181.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 109.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

Mo₃O₈Zn₂ (s) 2ZnO · 3MoO ₃ (s)	Zinc Molybdate(VI)	Mo₃O₈Zn₂ (s) 2ZnO · 3MoO ₃ (s)
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$\Delta H_{298}^0 = -2508 \text{ kJ}\cdot\text{mol}^{-1}$ [42]	$S_{298}^0 = 237.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [42]
$C_p^0 = 281.2 + 75 \cdot 10^{-3} \cdot T + 4.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [42]	

Mo₃O₉ (g) (MoO ₃) ₃ (g)	Molybdenum(VI) Oxide	Mo₃O₉ (g) (MoO ₃) ₃ (g)
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$\Delta H_{298}^0 = -1878.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 526.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 274.48 + 4.23 \cdot 10^{-3} \cdot T - 4.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -20.35 \cdot 10^3 \cdot T^{-1} - 5.58 \cdot \lg(T) + 33.57$ (800 ... 1074 K) [4]	
{Reaction: evaporation of MoO ₃ (l)}	

Mo₃Se₄ (s)	Molybdenum Selenide	Mo₃Se₄ (s)
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$\Delta H_{298}^0 = -336.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 217.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 168.77 + 17.46 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1778 K) [4]	

Mo₃Si (s)	Molybdenum Silicide	Mo₃Si (s)
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mp = 2300 K (2027 °C)	
$\Delta H_{298}^0 = -118.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 105.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 85.86 + 22.68 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2300 K) [4]	

Mo₃Te₄ (s)	Molybdenum Telluride	Mo₃Te₄ (s)
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$\Delta H_{298}^0 = -162.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 267.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 186.23 + 5.82 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1557 K) [4]	

Mo₄O₁₂ (g) (MoO ₃) ₄ (g)	Molybdenum(VI) Oxide	Mo₄O₁₂ (g) (MoO ₃) ₄ (g)
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$\Delta H_{298}^0 = -2570.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 654 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 371.36 + 5.73 \cdot 10^{-3} \cdot T - 6.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -23.6 \cdot 10^3 \cdot T^{-1} - 6.79 \cdot \lg(T) + 40.33$ (800 ... 1074 K) [4]	
{Reaction: evaporation of MoO ₃ (l)}	

Mo₅O₁₅ (g) (MoO ₃) ₅ (g)	Molybdenum(VI) Oxide	Mo₅O₁₅ (g) (MoO ₃) ₅ (g)
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$\Delta H_{298}^0 = -3256 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 771.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 468.23 + 7.22 \cdot 10^{-3} \cdot T - 8.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -27.69 \cdot 10^3 \cdot T^{-1} - 9.18 \cdot \lg(T) + 50.64$ (900 ... 1074 K) [4]	
{Reaction: evaporation of MoO ₃ (l)}	

Mo₅Si₃ (s)	Molybdenum Silicide	Mo₅Si₃ (s)
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mp = 2453 K (2180 °C)	
$\Delta H_{298}^0 = -310.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 207.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 183.36 + 35.01 \cdot 10^{-3} \cdot T - 1.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2453 K) [4]	

N_{0.465}V (s) VN _{0.465} (s)	Vanadium Nitride	N_{0.465}V (s) VN _{0.465} (s)
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$\Delta H_{298}^0 = -132.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 26.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 28.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

N (g)	Nitrogen	N (g)
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$\Delta H_{298}^0 = 472.7 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 153.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.88 - 0.15 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^6 \cdot T^{-2} + 0.05 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]	

NNaO₂ (s) NaNO ₂ (s)	Sodium Nitrite	NNaO₂ (s) NaNO ₂ (s)
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mp = 544 K (271 °C)	
$\Delta H_{298}^0 = -358.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 103.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 21.76 + 171.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 544 K) [4]	

NNaO₂ (s) NaNO ₂ (s)	Sodium Nitrite	NNaO₂ (s) NaNO ₂ (s)
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$\Delta H_{544}^0 = -335.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{544}^0 = 159.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Mo₅O₁₅ (g) (MoO ₃) ₅ (g)	Molybdenum(VI) Oxide	Mo₅O₁₅ (g) (MoO ₃) ₅ (g)
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$\Delta H_{298}^0 = -3256 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 771.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 468.23 + 7.22 \cdot 10^{-3} \cdot T - 8.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p, K) = -27.69 \cdot 10^3 \cdot T^{-1} - 9.18 \cdot \lg(T) + 50.64$ (900 ... 1074 K) [4]	
{Reaction: evaporation of MoO ₃ (l)}	

Mo₅Si₃ (s)	Molybdenum Silicide	Mo₅Si₃ (s)
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mp = 2453 K (2180 °C)	
$\Delta H_{298}^0 = -310.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 207.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 183.36 + 35.01 \cdot 10^{-3} \cdot T - 1.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2453 K) [4]	

N_{0.465}V (s) VN _{0.465} (s)	Vanadium Nitride	N_{0.465}V (s) VN _{0.465} (s)
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$\Delta H_{298}^0 = -132.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 26.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 28.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

N (g)	Nitrogen	N (g)
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$\Delta H_{298}^0 = 472.7 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 153.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.88 - 0.15 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^6 \cdot T^{-2} + 0.05 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]	

NNaO₂ (s) NaNO ₂ (s)	Sodium Nitrite	NNaO₂ (s) NaNO ₂ (s)
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mp = 544 K (271 °C)	
$\Delta H_{298}^0 = -358.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 103.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 21.76 + 171.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 544 K) [4]	

NNaO₂ (s) NaNO ₂ (s)	Sodium Nitrite	NNaO₂ (s) NaNO ₂ (s)
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$\Delta H_{544}^0 = -335.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{544}^0 = 159.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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NNaO₂ (l) NaNO ₂ (l)	Sodium Nitrite	NNaO₂ (l) NaNO ₂ (l)
$\Delta H_{544}^0 = -323.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 124.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (544 K) [4]		$S_{544}^0 = 181.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NNaO₃ (s) NaNO ₃ (s)	Sodium Nitrate	NNaO₃ (s) NaNO ₃ (s)
mp = 580 K (307 °C) $\Delta H_{298}^0 = -467.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 25.67 + 225.94 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 580 K) [4]		$S_{298}^0 = 116.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NNaO₃ (s) NaNO ₃ (s)	Sodium Nitrate	NNaO₃ (s) NaNO ₃ (s)
$\Delta H_{580}^0 = -432.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{580}^0 = 197.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NNaO₃ (l) NaNO ₃ (l)	Sodium Nitrate	NNaO₃ (l) NaNO ₃ (l)
$\Delta H_{580}^0 = -417.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 155.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (580 K) [4]		$S_{580}^0 = 223.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NNb (s) NbN (s)	Niobium Nitride	NNb (s) NbN (s)
mp = 2320 K (2047 °C) $\Delta H_{298}^0 = -235.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 32.22 + 22.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		$S_{298}^0 = 34.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
NNb₂ (s) Nb ₂ N (s)	Niobium Nitride	NNb₂ (s) Nb ₂ N (s)
mp = 2673 K (2400 °C) $\Delta H_{298}^0 = -246.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 69.71 + 9.42 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

NO (g)	Nitrogen(II) Oxide	NO (g)
mp = 110 K (-163 °C)		bp = 121 K (-152 °C)
$\Delta H_{298}^0 = 90.3 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 210.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 29.41 + 3.85 \cdot 10^{-3} \cdot T - 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NO₂ (g)	Nitrogen(IV) Oxide	NO₂ (g)
mp = 263 K (-10 °C)		bp = 294 K (21 °C)
$\Delta H_{298}^0 = 33.1 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.53 + 24.67 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} - 6.87 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -2.02 \cdot 10^3 \cdot T^{-1} + 0.03 \cdot \lg(T) + 2.56$ (298 ... 2000 K) [4]		
{Reaction: decomposition $2/3\text{NO}_2(\text{g}) = 2/3\text{NO}(\text{g}) + 1/3\text{O}_2(\text{g})$ }		
NO₃ (g)	Nitrogen Oxide	NO₃ (g)
$\Delta H_{298}^0 = 71.1 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 252.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 71.92 + 5.84 \cdot 10^{-3} \cdot T - 2.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 800 K) [4]		
NO₃Tl (s)	Thallium(I) Nitrate	NO₃Tl (s)
TlNO ₃ (s)		TlNO ₃ (s)
$\Delta H_{298}^0 = -244 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 161 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
NP (g)	Phosphorus Nitride	NP (g)
PN (g)		PN (g)
$\Delta H_{298}^0 = 104.8 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 211.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 33.07 + 2.41 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NPu (s)	Plutonium Nitride	NPu (s)
PuN (s)		PuN (s)
$\Delta H_{298}^0 = -299.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 64.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.89 + 15.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

NS (g)	Nitrogen Sulfide	NS (g)
$\Delta H_{298}^0 = 263.6 \pm 105 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 222.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.84 + 2.93 \cdot 10^{-3} \cdot T - 0.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NSc (s)	Scandium Nitride	NSc (s)
ScN (s)		ScN (s)
$\Delta H_{298}^0 = -313.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 29.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.82 + 5.44 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NSe (g)	Selenium Nitride	NSe (g)
SeN (g)		SeN (g)
$\Delta H_{298}^0 = [329.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [234.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
NSi (g)	Silicon Nitride	NSi (g)
SiN (g)		SiN (g)
$\Delta H_{298}^0 = 372.4 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 216.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 30.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NSi₂ (g)	Silicon Nitride	NSi₂ (g)
Si ₂ N (g)		Si ₂ N (g)
$\Delta H_{298}^0 = 397.5 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 256.5 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NTa (s)	Tantalum Nitride	NTa (s)
TaN (s)		TaN (s)
mp = 3360 K (3087 °C)		
$\Delta H_{298}^0 = -252.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 41.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 55.27 + 2.72 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

NTa₂ (s)	Tantalum Nitride	NTa₂ (s)
Ta ₂ N (s)		Ta ₂ N (s)

mp = 3000 K (2727 °C)

$$\Delta H_{298}^0 = -272.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 70.29 + 17.66 \cdot 10^{-3} \cdot T - 0.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

NTh (s)	Thorium Nitride	NTh (s)
ThN (s)		ThN (s)

mp = 3100 K (2827 °C)

$$\Delta H_{298}^0 = -378.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 57.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 47.45 + 9.53 \cdot 10^{-3} \cdot T - 0.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2500 K) [4]}$$

NTi (s)	Titanium Nitride	NTi (s)
TiN (s)		TiN (s)

mp = 3218 K (2945 °C)

$$\Delta H_{298}^0 = -337.7 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 30.2 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 49.83 + 3.93 \cdot 10^{-3} \cdot T - 1.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

NTi (l)	Titanium Nitride	NTi (l)
TiN (l)		TiN (l)

$$\Delta H_{298}^0 = -265.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 52.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 37.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [1]}$$

NU (s)	Uranium Nitride	NU (s)
UN (s)		UN (s)

$$\Delta H_{298}^0 = -290.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 62.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 55.73 + 4.98 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

NV (s)	Vanadium Nitride	NV (s)
VN (s)		VN (s)

mp = 2350 K (2077 °C)

$$\Delta H_{298}^0 = -217.2 \pm 5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 37.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 45.77 + 8.79 \cdot 10^{-3} \cdot T - 0.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

NV (g) VN (g)	Vanadium Nitride	NV (g) VN (g)
$\Delta H_{298}^0 = 523 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233.4 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NY (s) YN (s)	Yttrium Nitride	NY (s) YN (s)
$\Delta H_{298}^0 = -299.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 37.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.61 + 6.49 \cdot 10^{-3} \cdot T - 0.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NYb (s) YbN (s)	Ytterbium Nitride	NYb (s) YbN (s)
$\Delta H_{298}^0 = -359.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 62.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.44 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1500 K) [4]		
NZr (s) ZrN (s)	Zirconium Nitride	NZr (s) ZrN (s)
mp = 3233 K (2960 °C)		
$\Delta H_{298}^0 = -365.3 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 38.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.44 + 7.03 \cdot 10^{-3} \cdot T - 0.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NZr (l) ZrN (l)	Zirconium Nitride	NZr (l) ZrN (l)
$\Delta H_{298}^0 = -290.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 62.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NZr (g) ZrN (g)	Zirconium Nitride	NZr (g) ZrN (g)
$\Delta H_{298}^0 = 713.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

N₂ (g)	Nitrogen	N₂ (g)
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mp = 63 K (-210 °C)

bp = 79 K (-194 °C)

 $\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 191.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 30.42 + 2.54 \cdot 10^{-3} \cdot T - 0.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]

N₂O (g)	Nitrogen(I) Oxide	N₂O (g)
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mp = 171 K (-102 °C)

bp = 184 K (-89 °C)

 $\Delta H_{298}^0 = 82.1 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 220 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 38.1 + 23.17 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} - 6.16 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

N₂OTh₂ (s)	Thorium Nitride Oxide	N₂OTh₂ (s)
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Th₂N₂O (s)Th₂N₂O (s) $\Delta H_{298}^0 = -1287.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 124.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 116.9 + 18.74 \cdot 10^{-3} \cdot T - 1.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]

N₂O₃ (g)	Nitrogen(III) Oxide	N₂O₃ (g)
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mp = 171 K (-102 °C)

bp = 277 K (4 °C)

 $\Delta H_{298}^0 = 82.8 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 308.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 80.5 + 13.55 \cdot 10^{-3} \cdot T - 1.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]

N₂O₄ (s)	Nitrogen(IV) Oxide	N₂O₄ (s)
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 $\Delta H_{298}^0 = -35 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 150.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 122.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

N₂O₄ (l)	Nitrogen(IV) Oxide	N₂O₄ (l)
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 $\Delta H_{298}^0 = -19.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $S_{298}^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1] $C_p^0 = 142.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]

N₂O₄ (g)	Nitrogen(IV) Oxide	N₂O₄ (g)
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$$\Delta H_{298}^0 = 9.1 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 304.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 82.07 + 52.92 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} - 14.86 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

N₂O₅ (g)	Nitrogen(V) Oxide	N₂O₅ (g)
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$$\text{mp} = 303 \text{ K} (30 \text{ }^\circ\text{C})$$

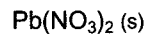
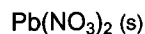
$$\text{bp} = 318 \text{ K} (45 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 11.3 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 346.5 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 136.94 + 6.68 \cdot 10^{-3} \cdot T - 3.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 500 \text{ K}) [4]$$

N₂O₆Pb (s)	Lead Nitrate	N₂O₆Pb (s)
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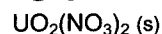
$$\text{mp} = 743 \text{ K} (470 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -456.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 224.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 125.94 + 149.37 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 732 \text{ K}) [4]$$

N₂O₈U (s)	Uranyl Nitrate	N₂O₈U (s)
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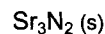
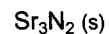


$$\Delta H_{298}^0 = -1349.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 242.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 187.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

N₂Sr₃ (s)	Strontium Nitride	N₂Sr₃ (s)
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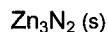
$$\text{mp} = 1303 \text{ K} (1030 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -391.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 121.55 + 27.2 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1303 \text{ K}) [4]$$

N₂Zn₃ (s)	Zinc Nitride	N₂Zn₃ (s)
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$$\Delta H_{298}^0 = -22.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 140.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 79.5 + 94.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (273 \dots 500 \text{ K}) [4]$$

N₃ (g)	Nitrogen	N₃ (g)
$\Delta H_{298}^0 = 414.2 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 226.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
N₃U₂ (s) U ₂ N ₃ (s)	Uranium Nitride	N₃U₂ (s) U ₂ N ₃ (s)
$\Delta H_{298}^0 = -760.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 129.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 96.23 + 40.59 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		
N₄S₄ (s)	Sulfur Nitride	N₄S₄ (s)
mp = 45 K (-228 °C)		
$\Delta H_{298}^0 = 460.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
N₄S₄ (g)	Sulfur Nitride	N₄S₄ (g)
$\Delta H_{298}^0 = 523 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
N₄Se₄ (s) Se ₄ N ₄ (s)	Selenium Nitride	N₄Se₄ (s) Se ₄ N ₄ (s)
$\Delta H_{298}^0 = 618 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
N₄Se₄ (g) Se ₄ N ₄ (g)	Selenium Nitride	N₄Se₄ (g) Se ₄ N ₄ (g)
$\Delta H_{298}^0 = [765.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		
N₄Si₃ (s) Si ₃ N ₄ (s)	Silicon Nitride	N₄Si₃ (s) Si ₃ N ₄ (s)
$\Delta H_{298}^0 = -744.8 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 113 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 76.38 + 109.04 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} - 27.08 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2146 K) [4]		

N₄Th₃ (s)	Thorium Nitride	N₄Th₃ (s)
Th ₃ N ₄ (s)		Th ₃ N ₄ (s)

$\Delta H_{298}^0 = -1305.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 182.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 164.56 + 26.11 \cdot 10^{-3} \cdot T - 2.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2042 K) [4]	

N₅P₃ (s)	Phosphorus Nitride	N₅P₃ (s)
P ₃ N ₅ (s)		P ₃ N ₅ (s)

$\Delta H_{298}^0 = -320.2 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 184.1 \pm 25.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 149 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]	

Na (s)	Sodium	Na (s)
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mp = 371 K (98 °C)	bp = 1154 K (881 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 51.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -62.35 + 200.72 \cdot 10^{-3} \cdot T + 2.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 371 K) [4]	

Na (s)	Sodium	Na (s)
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$\Delta H_{371}^0 = 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{371}^0 = 57.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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Na (l)	Sodium	Na (l)
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$\Delta H_{371}^0 = 4.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{371}^0 = 64.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.47 - 19.15 \cdot 10^{-3} \cdot T + 10.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (371 ... 1154 K) [4]	

Na (l)	Sodium	Na (l)
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$\Delta H_{298}^0 = 2.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 57.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.47 - 19.15 \cdot 10^{-3} \cdot T + 10.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (371 ... 1154 K) [4]	

Na (g)	Sodium	Na (g)
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$\Delta H_{298}^0 = 107.3 \pm 0.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 153.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]	
$\lg(p, K) = -5.65 \cdot 10^3 \cdot T^{-1} - 1.11 \cdot \lg(T) + 8.22$ (400 ... 1154 K) [4]	
{Reaction: evaporation of Na(l)}	

NaO (g)	Sodium Oxide	NaO (g)
$\Delta H_{298}^0 = 102.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 229.1 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.24 + 0.92 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NaO₂ (s)	Sodium Superoxide	NaO₂ (s)
mp = 825 K (552 °C)		
$\Delta H_{298}^0 = -260.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 115.9 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 60 + 40.85 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 825 K) [4]		
NaO₃V (s)	Sodium Vanadate(V)	NaO₃V (s)
NaVO ₃ (s)		NaVO ₃ (s)
$\Delta H_{298}^0 = -1147.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 113.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 97.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
NaTe (s)	Sodium Telluride	NaTe (s)
$\Delta H_{298}^0 = -175.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 80.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 52.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
NaTe₃ (s)	Sodium Tritelluride	NaTe₃ (s)
$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 134.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Na₂ (g)	Sodium	Na₂ (g)
$\Delta H_{298}^0 = 138.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 230.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.82 + 8.26 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} - 5.04 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1154 K) [4]		
$\lg(p,K) = -7.3 \cdot 10^3 \cdot T^{-1} - 2.59 \cdot \lg(T) + 13.48$ (500 ... 1154 K) [4]		
{Reaction: evaporation of Na(l)}		

Na₂NpO₄ (s)	Sodium Neptunium Oxide	Na₂NpO₄ (s)
Na ₂ O · NpO ₃ (s)	alpha	Na ₂ O · NpO ₃ (s)

$$\Delta H_{298}^0 = -1763.9 \pm 5.3 \text{ kJ}\cdot\text{mol}^{-1} [14]$$

$$S_{298}^0 = [173.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [230, 8]$$

$$C_p^0 = [149.70] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Na₂NpO₄ (s)	Sodium Neptunium Oxide	Na₂NpO₄ (s)
Na ₂ O · NpO ₃ (s)	beta	Na ₂ O · NpO ₃ (s)

$$\Delta H_{298}^0 = -1748.6 \pm 5.8 \text{ kJ}\cdot\text{mol}^{-1} [14]$$

$$S_{298}^0 = [173.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [229, 8]$$

$$C_p^0 = [149.70] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Na₂O (s)	Sodium Oxide	Na₂O (s)
	alpha	

$$\text{mp} = 1405 \text{ K} (1132 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -415.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 75.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 76.74 + 20.09 \cdot 10^{-3} \cdot T - 1.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1023 \text{ K}) [4]$$

Na₂O (s)	Sodium Oxide	Na₂O (s)
	alpha	

$$\Delta H_{1023}^0 = -352.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1023}^0 = 177.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O (s)	Sodium Oxide	Na₂O (s)
	beta	

$$\Delta H_{1023}^0 = -351 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1023}^0 = 179.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 82.3 + 12.76 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1023 \dots 1243 \text{ K}) [4]$$

Na₂O (s)	Sodium Oxide	Na₂O (s)
	beta	

$$\Delta H_{1243}^0 = -329.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1243}^0 = 198.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O (s)	Sodium Oxide gamma	Na₂O (s)
$\Delta H_{1243}^0 = -317.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 84.85 + 10.71 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1243 K) [4]		$S_{1243}^0 = 207.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O (s)	Sodium Oxide gamma	Na₂O (s)
$\Delta H_{1405}^0 = -301.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1405}^0 = 220.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O (l)	Sodium Oxide	Na₂O (l)
$\Delta H_{1405}^0 = -254.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1405 K) [4]		$S_{1405}^0 = 254 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O (l)	Sodium Oxide	Na₂O (l)
$\Delta H_{298}^0 = -372.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 104.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1405 K) [4]		$S_{298}^0 = 91.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Na₂O₂ (s)	Sodium Peroxide alpha	Na₂O₂ (s)
mp = 948 K (675 °C) $\Delta H_{298}^0 = -513.2 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 97.91 + 23.42 \cdot 10^{-3} \cdot T - 1.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 785 K) [4] $\lg(p,K) = -10.48 \cdot 10^3 \cdot T^{-1} - 1.63 \cdot \lg(T) + 13.43$ (600 ... 785 K) [4] {Reaction: decomposition $2\text{Na}_2\text{O}_2(\text{s}) = 2\text{Na}_2\text{O}(\text{s}) + \text{O}_2(\text{g})$ }		$S_{298}^0 = 94.8 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Na₂O₂ (s)	Sodium Peroxide alpha	Na₂O₂ (s)
$\Delta H_{785}^0 = -462.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{785}^0 = 194.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Na₂O₂ (s)	Sodium Peroxide beta	Na₂O₂ (s)
$\Delta H_{785}^0 = -456.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{785}^0 = 201.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 113.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (785 K) [4]		
Na₂O₃S (s) Na ₂ SO ₃ (s)	Sodium Sulfite	Na₂O₃S (s) Na ₂ SO ₃ (s)
mp = 1184 K (911 °C)		
$\Delta H_{298}^0 = -1095 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 146 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 107.11 + 43.51 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1184 K) [4]		
Na₂O₃S (s) Na ₂ SO ₃ (s)	Sodium Sulfite	Na₂O₃S (s) Na ₂ SO ₃ (s)
$\Delta H_{1184}^0 = -971.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1184}^0 = 332.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃S (l) Na ₂ SO ₃ (l)	Sodium Sulfite	Na₂O₃S (l) Na ₂ SO ₃ (l)
$\Delta H_{1184}^0 = -945.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1184}^0 = 354.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1184 K) [4]		
Na₂O₃S₂ (s) Na ₂ S ₂ O ₃ (s)	Sodium Thiosulfate	Na₂O₃S₂ (s) Na ₂ S ₂ O ₃ (s)
$\Delta H_{298}^0 = -1123 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 155 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 146 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		
Na₂O₃Si (s) Na ₂ O · SiO ₂ (s)	Sodium Silicate	Na₂O₃Si (s) Na ₂ O · SiO ₂ (s)
mp = 1362 K (1089 °C)		
$\Delta H_{298}^0 = -1556 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 113.8 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 130.29 + 40.17 \cdot 10^{-3} \cdot T - 2.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1362 K) [4]		

Na₂O₃Si (s) Na ₂ O · SiO ₂ (s)	Sodium Silicate	Na₂O₃Si (s) Na ₂ O · SiO ₂ (s)
$\Delta H^0_{1362} = -1389 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1362} = 340 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Si (l) Na ₂ O · SiO ₂ (l)	Sodium Silicate	Na₂O₃Si (l) Na ₂ O · SiO ₂ (l)
$\Delta H^0_{1362} = -1336.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 179.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1362 K) [4]		$S^0_{1362} = 378.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Si (l) Na ₂ O · SiO ₂ (l)	Sodium Silicate	Na₂O₃Si (l) Na ₂ O · SiO ₂ (l)
$\Delta H^0_{298} = -1510.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 179.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1362 K) [4]		$S^0_{298} = 150.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Na₂O₃Te (s) Na ₂ TeO ₃ (s)	Sodium Tellurite	Na₂O₃Te (s) Na ₂ TeO ₃ (s)
$\Delta H^0_{298} = -1003 \text{ kJ}\cdot\text{mol}^{-1}$ [7] $C_p^0 = [132.43] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S^0_{298} = [149.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [123]
Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)	Sodium Titanate alpha	Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)
mp = 1303 K (1030 °C) $\Delta H^0_{298} = -1576.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 105.35 + 86.69 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 560 K) [4]		$S^0_{298} = 121.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)	Sodium Titanate alpha	Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)
$\Delta H^0_{560} = -1538.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{560} = 210.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)	Sodium Titanate beta	Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)
$\Delta H_{560}^0 = -1537.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 108.58 + 71.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (560 ... 1303 K) [4]		$S_{560}^0 = 213.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)	Sodium Titanate beta	Na₂O₃Ti (s) Na ₂ O · TiO ₂ (s)
$\Delta H_{1303}^0 = -1407.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1303}^0 = 358.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Ti (l) Na ₂ O · TiO ₂ (l)	Sodium Titanate	Na₂O₃Ti (l) Na ₂ O · TiO ₂ (l)
$\Delta H_{1303}^0 = -1336.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 196.23 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1303 K) [4]		$S_{1303}^0 = 412.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₃Zr (s) Na ₂ O · ZrO ₂ (s)	Sodium Zirconium Oxide	Na₂O₃Zr (s) Na ₂ O · ZrO ₂ (s)
$\Delta H_{298}^0 = -1654.9 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [154] $C_p^0 = [124.76] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [125.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [155]
Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate alpha, orthorhombic	Na₂O₄S (s) Na ₂ SO ₄ (s)
mp = 1157 K (884 °C) $\Delta H_{298}^0 = -1387.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 82.34 + 154.35 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 458 K) [4]		$S_{298}^0 = 149.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate alpha, orthorhombic	Na₂O₄S (s) Na ₂ SO ₄ (s)
$\Delta H_{458}^0 = -1365.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{458}^0 = 209.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate beta, orthorhombic	Na₂O₄S (s) Na ₂ SO ₄ (s)
$\Delta H_{458}^0 = -1365 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 92.96 + 131.8 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (458 ... 514 K) [4]		$S_{458}^0 = 210.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate beta, orthorhombic	Na₂O₄S (s) Na ₂ SO ₄ (s)
$\Delta H_{514}^0 = -1356.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{514}^0 = 228.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate gamma, hexagonal	Na₂O₄S (s) Na ₂ SO ₄ (s)
$\Delta H_{514}^0 = -1345.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 131.44 + 67.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (514 ... 1157 K) [4]		$S_{514}^0 = 249.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (s) Na ₂ SO ₄ (s)	Sodium Sulfate gamma, hexagonal	Na₂O₄S (s) Na ₂ SO ₄ (s)
$\Delta H_{1157}^0 = -1224.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1157}^0 = 399.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (l) Na ₂ SO ₄ (l)	Sodium Sulfate	Na₂O₄S (l) Na ₂ SO ₄ (l)
$\Delta H_{1157}^0 = -1200.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 197.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1157 K) [4]		$S_{1157}^0 = 420.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₄S (l) Na ₂ SO ₄ (l)	Sodium Sulfate	Na₂O₄S (l) Na ₂ SO ₄ (l)
$\Delta H_{298}^0 = -1356.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 197.03 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1157 K) [4]		$S_{298}^0 = 181.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

Na₂O₄S (g)	Sodium Sulfate	Na₂O₄S (g)
Na ₂ SO ₄ (g)		Na ₂ SO ₄ (g)

$$\Delta H_{298}^0 = -1033.6 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 346.9 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 145.1 + 6.66 \cdot 10^{-3} \cdot T - 4.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Na₂O₄U (s)	Sodium Uranate(VI)	Na₂O₄U (s)
Na ₂ O · UO ₃ (s)	alpha	Na ₂ O · UO ₃ (s)

$$\Delta H_{298}^0 = -1889.5 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 166.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 162.55 + 25.9 \cdot 10^{-3} \cdot T - 2.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1193 \text{ K}) [4]$$

Na₂O₄U (s)	Sodium Uranate(VI)	Na₂O₄U (s)
Na ₂ O · UO ₃ (s)	alpha	Na ₂ O · UO ₃ (s)

$$\Delta H_{1193}^0 = -1732 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1193}^0 = 403.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₄U (s)	Sodium Uranate(VI)	Na₂O₄U (s)
Na ₂ O · UO ₃ (s)	beta	Na ₂ O · UO ₃ (s)

$$\Delta H_{1193}^0 = -1711.1 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{1193}^0 = 421.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 224.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1193 \text{ K}) [4]$$

Na₂O₄W (s)	Sodium Tungstate(VI)	Na₂O₄W (s)
Na ₂ O · WO ₃ (s)	alpha	Na ₂ O · WO ₃ (s)

$$\text{mp} = 969 \text{ K} (696 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1544.7 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 160.3 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 107.19 + 115.98 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 864 \text{ K}) [4]$$

Na₂O₄W (s)	Sodium Tungstate(VI)	Na₂O₄W (s)
Na ₂ O · WO ₃ (s)	alpha	Na ₂ O · WO ₃ (s)

$$\Delta H_{864}^0 = -1445.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{864}^0 = 340 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₄W (s) Na ₂ O · WO ₃ (s)	Sodium Tungstate(VI) beta	Na₂O₄W (s) Na ₂ O · WO ₃ (s)
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$$\Delta H_{864}^0 = -1411.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (864 \text{ K}) [4]$$

$$S_{864}^0 = 379.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₄W (s) Na ₂ O · WO ₃ (s)	Sodium Tungstate(VI) beta	Na₂O₄W (s) Na ₂ O · WO ₃ (s)
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$$\Delta H_{969}^0 = -1389.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{969}^0 = 403.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₄W (l) Na ₂ O · WO ₃ (l)	Sodium Tungstate(VI)	Na₂O₄W (l) Na ₂ O · WO ₃ (l)
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$$\Delta H_{969}^0 = -1365.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 209.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (969 \text{ K}) [4]$$

$$S_{969}^0 = 428.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)	Sodium Silicate alpha	Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)
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$$\text{mp} = 1147 \text{ K} (874 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2467.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 164.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 185.69 + 70.54 \cdot 10^{-3} \cdot T - 4.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 951 \text{ K}) [4]$$

Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)	Sodium Silicate alpha	Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)
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$$\Delta H_{951}^0 = -2327.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{951}^0 = 402.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)	Sodium Silicate beta	Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)
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$$\Delta H_{951}^0 = -2326.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 292.88 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (951 \text{ K}) [4]$$

$$S_{951}^0 = 403.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)	Sodium Silicate beta	Na₂O₅Si₂ (s) Na ₂ O · 2SiO ₂ (s)
$\Delta H^0_{1147} = -2269.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1147} = 458.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₅Si₂ (l) Na ₂ O · 2SiO ₂ (l)	Sodium Silicate	Na₂O₅Si₂ (l) Na ₂ O · 2SiO ₂ (l)
$\Delta H^0_{1147} = -2233.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 276.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1147 K) [4]		$S^0_{1147} = 489.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₅Si₂ (l) Na ₂ O · 2SiO ₂ (l)	Sodium Silicate	Na₂O₅Si₂ (l) Na ₂ O · 2SiO ₂ (l)
$\Delta H^0_{298} = -2438.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 276.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1147 K) [4]		$S^0_{298} = 188.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Na₂O₅Ti₂ (s) Na ₂ O · 2TiO ₂ (s)	Sodium Titanate	Na₂O₅Ti₂ (s) Na ₂ O · 2TiO ₂ (s)
mp = 1258 K (985 °C) $\Delta H^0_{298} = -2536.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 205.98 + 29.54 \cdot 10^{-3} \cdot T - 1.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1258 K) [4]		$S^0_{298} = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₅Ti₂ (s) Na ₂ O · 2TiO ₂ (s)	Sodium Titanate	Na₂O₅Ti₂ (s) Na ₂ O · 2TiO ₂ (s)
$\Delta H^0_{1258} = -2321.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1258} = 488.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₅Ti₂ (l) Na ₂ O · 2TiO ₂ (l)	Sodium Titanate	Na₂O₅Ti₂ (l) Na ₂ O · 2TiO ₂ (l)
$\Delta H^0_{1258} = -2212.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 286.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1258 K) [4]		$S^0_{1258} = 575.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Na₂O₆P₂ (s) Na ₂ O · P ₂ O ₅ (s)	Sodium Phosphate	Na₂O₆P₂ (s) Na ₂ O · P ₂ O ₅ (s)
mp = 900 K (627 °C)		
$\Delta H_{298}^0 = -2440.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 191 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 105.86 + 230.12 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [4]		
Na₂O₆V₂ (s) Na ₂ O · V ₂ O ₅ (s)	Sodium Vanadate(V)	Na₂O₆V₂ (s) Na ₂ O · V ₂ O ₅ (s)
mp = 903 K (630 °C)		
$\Delta H_{298}^0 = -2383.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 227.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 255.39 + 6.28 \cdot 10^{-3} \cdot T - 5.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 903 K) [4]		
Na₂O₇Ti₃ (s) Na ₂ O · 3TiO ₂ (s)	Sodium Titanate	Na₂O₇Ti₃ (s) Na ₂ O · 3TiO ₂ (s)
mp = 1401 K (1128 °C)		
$\Delta H_{298}^0 = -3486.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 233.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 265.52 + 44.52 \cdot 10^{-3} \cdot T - 2.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1401 K) [4]		
Na₂O₇Ti₃ (s) Na ₂ O · 3TiO ₂ (s)	Sodium Titanate	Na₂O₇Ti₃ (s) Na ₂ O · 3TiO ₂ (s)
$\Delta H_{1401}^0 = -3158.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1401}^0 = 681.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂O₇Ti₃ (l) Na ₂ O · 3TiO ₂ (l)	Sodium Titanate	Na₂O₇Ti₃ (l) Na ₂ O · 3TiO ₂ (l)
$\Delta H_{1401}^0 = -3003 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1401}^0 = 792 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 393.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1401 K) [4]		
Na₂O₇W₂ (s) Na ₂ O · 2WO ₃ (s)	Sodium Tungstate(VI)	Na₂O₇W₂ (s) Na ₂ O · 2WO ₃ (s)
$\Delta H_{298}^0 = -2405 \text{ kJ}\cdot\text{mol}^{-1}$ [268]		$S_{298}^0 = 254.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [268]

Na₂S (s)	Sodium Sulfide	Na₂S (s)
mp = 1445 K (1172 °C)		
$\Delta H_{298}^0 = -366.1 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 96.2 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 78.58 + 14.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
Na₂S (s)	Sodium Sulfide	Na₂S (s)
$\Delta H_{1445}^0 = -240.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1445}^0 = 253.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Na₂S (l)	Sodium Sulfide	Na₂S (l)
$\Delta H_{1445}^0 = -221.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1445}^0 = 266.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 92.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1445 K) [4]		
Na₂S (l)	Sodium Sulfide	Na₂S (l)
$\Delta H_{298}^0 = -323.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 127.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 92.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1445 K) [4]		
Na₂S₂ (s)	Sodium Disulfide	Na₂S₂ (s)
mp = 753 K (480 °C)		
$\Delta H_{298}^0 = -397.1 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 150.6 \pm 24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 98.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Na₂S₂ (l)	Sodium Disulfide	Na₂S₂ (l)
$\Delta H_{298}^0 = -380.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 172.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 98.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Na₂S₃ (s)	Sodium Trisulfide	Na₂S₃ (s)
$\Delta H_{298}^0 = -432.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 101.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 125.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Na₂S₄ (s)	Sodium Tetrasulfide	Na₂S₄ (s)
$\Delta H_{298}^0 = -411.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 152.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Na₂Se (s)	Sodium Selenide	Na₂Se (s)
mp = 1173 K (900 °C) $\Delta H_{298}^0 = -342.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [104.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Na₂Se₂ (s)	Sodium Diselenide	Na₂Se₂ (s)
mp = 768 K (495 °C) $\Delta H_{298}^0 = -388.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [125.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Na₂Te (s)	Sodium Telluride	Na₂Te (s)
mp = 1226 K (953 °C) $\Delta H_{298}^0 = -313.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 77.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 115.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Na₂Te₂ (s)	Sodium Ditetelluride	Na₂Te₂ (s)
mp = 650 K (377 °C) $\Delta H_{298}^0 = -355.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [146.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Na₃O₄P (s) Na ₃ PO ₄ (s)	Sodium Phosphate	Na₃O₄P (s) Na ₃ PO ₄ (s)
$\Delta H_{298}^0 = -1917.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 150 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Na₃O₄U (s) Na ₃ UO ₄ (s)	Sodium Uranate(V)	Na₃O₄U (s) Na ₃ UO ₄ (s)
$\Delta H_{298}^0 = -2023.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 188.91 + 25.2 \cdot 10^{-3} \cdot T - 2.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		$S_{298}^0 = 198.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Na₃O₄V (s)	Sodium Vanadate(V)	Na₃O₄V (s)
Na ₃ VO ₄ (s)		Na ₃ VO ₄ (s)

$$\Delta H_{298}^0 = -1763.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 190 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 164.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Na₃P₇ (s)	Sodium Phosphide	Na₃P₇ (s)
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$$\Delta H_{298}^0 = -119 \pm 10 \text{ kJ}\cdot\text{mol}^{-1} [10]$$

$$S_{298}^0 = 509 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [10]$$

Na₄NpO₅ (s)	Sodium Neptunium Oxide beta	Na₄NpO₅ (s)
2Na ₂ O · NpO ₃ (s)		2Na ₂ O · NpO ₃ (s)

$$\Delta H_{298}^0 = -2315.5 \pm 5.3 \text{ kJ}\cdot\text{mol}^{-1} [14]$$

$$S_{298}^0 = [249] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [231, 8]$$

$$C_p^0 = [218.24] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

Na₄O₄Si (s)	Sodium Silicate	Na₄O₄Si (s)
2Na ₂ O · SiO ₂ (s)		2Na ₂ O · SiO ₂ (s)

$$\text{mp} = 1393 \text{ K} (1120 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2100.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 195.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 162.59 + 74.22 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1393 \text{ K}) [4]$$

Na₄O₄Si (s)	Sodium Silicate	Na₄O₄Si (s)
2Na ₂ O · SiO ₂ (s)		2Na ₂ O · SiO ₂ (s)

$$\Delta H_{1393}^0 = -1854.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

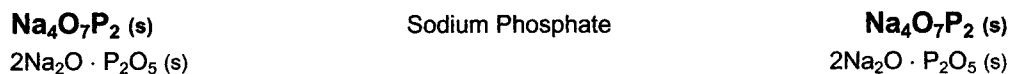
$$S_{1393}^0 = 527.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Na₄O₄Si (l)	Sodium Silicate	Na₄O₄Si (l)
2Na ₂ O · SiO ₂ (l)		2Na ₂ O · SiO ₂ (l)

$$\Delta H_{1393}^0 = -1796.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1393}^0 = 569.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 259.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1393 \text{ K}) [4]$$

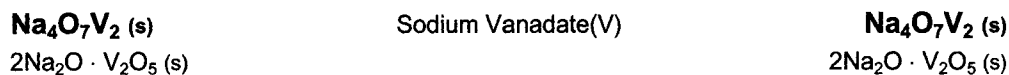


mp = 1268 K (995 °C)

$$\Delta H_{298}^0 = -3166.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 270.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 184.51 + 190.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1268 \text{ K}) [4]$$

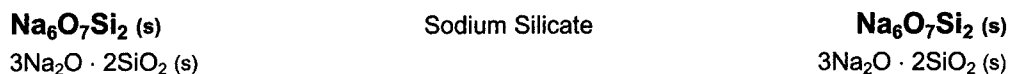


mp = 933 K (660 °C)

$$\Delta H_{298}^0 = -3037.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 318.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

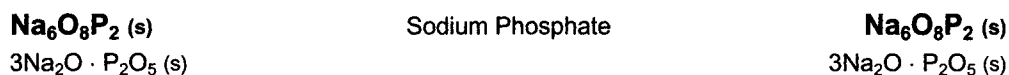
$$C_p^0 = 323.42 + 28.87 \cdot 10^{-3} \cdot T - 5.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 933 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -3632 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 309.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 306.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

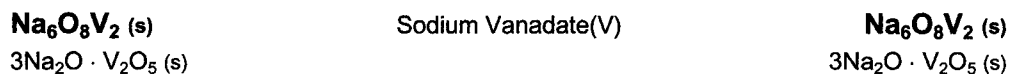


mp = 1856 K (1583 °C)

$$\Delta H_{298}^0 = -3833.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 347.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 236.81 + 234.3 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$



$$\Delta H_{298}^0 = -3682.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 379.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 376.56 + 51.46 \cdot 10^{-3} \cdot T - 5.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$



mp = 2745 K (2472 °C)

bp = 5072 K (4799 °C)

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 36.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 27.78 - 3.84 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} + 3.6 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Nb (l)	Niobium	Nb (l)
$\Delta H_{298}^0 = 29.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 47.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2000 K) [4]		
Nb (g)	Niobium	Nb (g)
$\Delta H_{298}^0 = 733 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 186.3 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.91 - 8.45 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} + 2.48 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
$\lg(p, K) = -26.26 \cdot 10^3 \cdot T^{-1} - 1.43 \cdot \lg(T) + 8.61$ (2100 ... 2745 K) [4]		
{Reaction: evaporation of Nb(s)}		
NbO (s)	Niobium(II) Oxide	NbO (s)
mp = 2218 K (1945 °C)		
$\Delta H_{298}^0 = -419.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 46 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 42.97 + 8.87 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2218 K) [4]		
NbO (l)	Niobium(II) Oxide	NbO (l)
$\Delta H_{298}^0 = -336.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 83.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NbO (g)	Niobium(II) Oxide	NbO (g)
$\Delta H_{298}^0 = 198.7 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 239 \pm 3.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.52 + 1.09 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2218 K) [4]		
NbO₂ (s)	Niobium(IV) Oxide alpha	NbO₂ (s)
mp = 2188 K (1915 °C)		
$\Delta H_{298}^0 = -795 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 54.5 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.46 + 37.18 \cdot 10^{-3} \cdot T - 0.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1090 K) [4]		
NbO₂ (s)	Niobium(IV) Oxide alpha	NbO₂ (s)
$\Delta H_{1090}^0 = -735.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1090}^0 = 147.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

NbO₂ (s)	Niobium(IV) Oxide beta	NbO₂ (s)
$\Delta H_{1090}^0 = -732 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 92.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1090 K) [4]		$S_{1090}^0 = 150.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NbO₂ (l)	Niobium(IV) Oxide	NbO₂ (l)
$\Delta H_{298}^0 = -710.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 57.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 92.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
NbO₂ (g)	Niobium(IV) Oxide	NbO₂ (g)
$\Delta H_{298}^0 = -200 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 54.77 + 1.59 \cdot 10^{-3} \cdot T - 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2188 K) [4]		$S_{298}^0 = 272.9 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
NbO₄Sb (s) SbNbO ₄ (s)	Antimony Niobium Oxide	NbO₄Sb (s) SbNbO ₄ (s)
$\Delta H_{298}^0 = -1307.5 \text{ kJ}\cdot\text{mol}^{-1}$ [92] $C_p^0 = [121.96] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		$S_{298}^0 = [147.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [92]
NbS (g)	Niobium(II) Sulfide	NbS (g)
$\Delta H_{298}^0 = [430.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $C_p^0 = [36.89] + [0.27] \cdot 10^{-3} \cdot T + [-0.32] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		$S_{298}^0 = [250.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
NbS₂ (s)	Niobium(IV) Sulfide	NbS₂ (s)
$\Delta H_{298}^0 = -354.8 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [71.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
NbSi₂ (s)	Niobium Silicide	NbSi₂ (s)
$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 63.18 + 15.36 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [3]		$S_{298}^0 = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Nb₂O₅ (s)	Niobium(V) Oxide	Nb₂O₅ (s)
mp = 1783 K (1510 °C)		
$\Delta H_{298}^0 = -1899.5 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 137.3 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 162.17 + 14.81 \cdot 10^{-3} \cdot T - 3.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1783 K) [4]		
Nb₂O₅ (s)	Niobium(V) Oxide	Nb₂O₅ (s)
$\Delta H_{1783}^0 = -1644.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1783}^0 = 432.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Nb₂O₅ (l)	Niobium(V) Oxide	Nb₂O₅ (l)
$\Delta H_{1783}^0 = -1540.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1783}^0 = 491 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 242.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1783 K) [4]		
Nb₂O₅ (l)	Niobium(V) Oxide	Nb₂O₅ (l)
$\Delta H_{298}^0 = -1830.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 171.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 242.25 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1783 K) [4]		
Nb₅Si₃ (s)	Niobium Silicide	Nb₅Si₃ (s)
$\Delta H_{298}^0 = -510.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 251 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 189.16 + 30.79 \cdot 10^{-3} \cdot T - 1.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [3]		
Nd (s)	Neodymium alpha	Nd (s)
mp = 1289 K (1016 °C)		bp = 3337 K (3064 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 25.82 + 2.19 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} + 13.93 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1128 K) [4]		
Nd (s)	Neodymium alpha	Nd (s)
$\Delta H_{1128}^0 = 29.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1128}^0 = 115.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1128 K) [2]		

Nd (s)	Neodymium beta	Nd (s)
$\Delta H_{1128}^0 = 32.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1128}^0 = 118.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1128 K) [4]		
Nd (s)	Neodymium beta	Nd (s)
$\Delta H_{1289}^0 = 39.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1289}^0 = 124 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.56 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1289 K) [4]		
Nd (l)	Neodymium	Nd (l)
$\Delta H_{1289}^0 = 46.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1289}^0 = 129.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1289 K) [4]		
$\lg(p,K) = -17.18 \cdot 10^3 \cdot T^{-1} - 1.97 \cdot \lg(T) + 12.09$ (1289 ... 2000 K) [4]		
{Reaction: evaporation as Nd(g)}		
Nd (g)	Neodymium	Nd (g)
$\Delta H_{298}^0 = 328.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 189.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 26.23 + 2.75 \cdot 10^{-3} \cdot T - 0.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NdS (s)	Neodymium(II) Sulfide	NdS (s)
mp = 2400 K (2127 °C)		
$\Delta H_{298}^0 = -464.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.19 + 8.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
NdS (g)	Neodymium(II) Sulfide	NdS (g)
$\Delta H_{298}^0 = 133.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 264.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.13 + 0.15 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

NdSe (s)	Neodymium(II) Selenide	NdSe (s)
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mp = 2100 K (1827 °C)

$$\Delta H_{298}^0 = -359.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 90.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 47.49 + 6.28 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

NdSe (g)	Neodymium(II) Selenide	NdSe (g)
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$$\Delta H_{298}^0 = 183.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 275.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.29 + 0.08 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

NdTe (s)	Neodymium(II) Telluride	NdTe (s)
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mp = 2313 K (2040 °C)

$$\Delta H_{298}^0 = -301.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 97.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 48.37 + 6.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

NdTe (g)	Neodymium(II) Telluride	NdTe (g)
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$$\Delta H_{298}^0 = 238.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 284.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.38 + 0.02 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Nd₂O₃ (s)	Neodymium(III) Oxide alpha	Nd₂O₃ (s)
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mp = 2545 K (2272 °C)

$$\Delta H_{298}^0 = -1807.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 158.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 115.52 + 30 \cdot 10^{-3} \cdot T - 1.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1395 \text{ K}) [4]$$

Nd₂O₃ (s)	Neodymium(III) Oxide alpha	Nd₂O₃ (s)
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$$\Delta H_{1395}^0 = -1656.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1395}^0 = 363.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Nd₂O₃ (s)	Neodymium(III) Oxide beta	Nd₂O₃ (s)
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$$\Delta H_{1395}^0 = -1655.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1395}^0 = 363.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 155.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1395 \text{ K}) [4]$$

Nd₂O₇Zr₂ (s) Nd ₂ O ₃ · 2ZrO ₂ (s)	Neodymium Zirconate	Nd₂O₇Zr₂ (s) Nd ₂ O ₃ · 2ZrO ₂ (s)
$\Delta H_{298}^0 = -4121.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 259.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 255.22 + 44.77 \cdot 10^{-3} \cdot T - 4.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1400 K) [4]		
Nd₂O₁₂S₃ (s) Nd ₂ (SO ₄) ₃ (s)	Neodymium Sulfate	Nd₂O₁₂S₃ (s) Nd ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -3781.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 288.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 213.38 + 198.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1140 K) [4]		
Nd₂S₃ (s)	Neodymium(III) Sulfide	Nd₂S₃ (s)
mp = 2480 K (2207 °C)		
$\Delta H_{298}^0 = -1125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 185.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 118.53 + 13.35 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Nd₂Se₃ (s)	Neodymium(III) Selenide	Nd₂Se₃ (s)
mp = 1830 K (1557 °C)		
$\Delta H_{298}^0 = -941.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 224.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 125.98 + 14.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1830 K) [4]		
Nd₂Te₃ (s)	Neodymium(III) Telluride	Nd₂Te₃ (s)
mp = 1650 K (1377 °C)		
$\Delta H_{298}^0 = -795 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 253.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 128.57 + 13.98 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1650 K) [4]		
Ne (g)	Neon	Ne (g)
mp = 25 K (-248 °C)		bp = 27 K (-246 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 146.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

Ni (s)	Nickel	Ni (s)
mp = 1728 K (1455 °C)		bp = 3169 K (2896 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 29.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 19.36 + 22.46 \cdot 10^{-3} \cdot T + 0.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 400 K) [4]		
Ni (s)	Nickel	Ni (s)
$\Delta H_{1728}^0 = 47.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1728}^0 = 86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1728 K) [4]		
Ni (l)	Nickel	Ni (l)
$\Delta H_{1728}^0 = 65 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1728}^0 = 96.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1728 K) [4]		
$\lg(\rho, K) = -22.39 \cdot 10^3 \cdot T^{-1} - 1.93 \cdot \lg(T) + 13.82$ (1728 ... 3169 K) [4]		
{Reaction: evaporation as Ni(g)}		
Ni (l)	Nickel	Ni (l)
$\Delta H_{298}^0 = 17.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 38.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1728 K) [4]		
Ni (g)	Nickel	Ni (g)
$\Delta H_{298}^0 = 430.1 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 182.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.77 - 2.04 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} + 0.18 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3169 K) [4]		
NiO (s)	Nickel Oxide alpha, non stoichiometric	NiO (s)
mp = 2228 K (1955 °C)		
$\Delta H_{298}^0 = -239.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = -6.32 + 131.24 \cdot 10^{-3} \cdot T + 1.02 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 525 K) [4]		
NiO (g)	Nickel Oxide	NiO (g)
$\Delta H_{298}^0 = 309.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 241.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.82 + 1.54 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2228 K) [4]		

NiO₃Se (s)	Nickel Selenite	NiO₃Se (s)
NiSeO ₃ (s)		NiSeO ₃ (s)

mp = 953 K (680 °C)

$$\Delta H_{298}^0 = -560.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 125.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 79.5 + 59.83 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 953 \text{ K}) [4]$$

NiO₃Ti (s)	Nickel Titanate	NiO₃Ti (s)
NiO · TiO ₂ (s)		NiO · TiO ₂ (s)

$$\Delta H_{298}^0 = -1201.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 82.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 115.1 + 15.98 \cdot 10^{-3} \cdot T - 1.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1667 \text{ K}) [4]$$

NiO₄S (s)	Nickel Sulfate	NiO₄S (s)
NiSO ₄ (s)		NiSO ₄ (s)

$$\Delta H_{298}^0 = -873.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 101.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 125.94 + 27.82 \cdot 10^{-3} \cdot T - 3.26 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1152 \text{ K}) [4]$$

NiO₄W (s)	Nickel Tungstate(VI)	NiO₄W (s)
NiO · WO ₃ (s)		NiO · WO ₃ (s)

$$\Delta H_{298}^0 = -1127.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 110.63 + 53.39 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1100 \text{ K}) [4]$$

NiS_{0.84} (s)	Nickel Sulfide	NiS_{0.84} (s)
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$$\Delta H_{298}^0 = -82.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 43.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

NiS (s)	Nickel Sulfide alpha, non stoichiometric	NiS (s)
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mp = 1249 K (976 °C)

$$\Delta H_{298}^0 = -87.9 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 53 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 44.69 + 19.04 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 652 \text{ K}) [4]$$

NiS (s)	Nickel Sulfide alpha, non stoichiometric	NiS (s)
$\Delta H_{652}^0 = -69.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{652}^0 = 93.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NiS (s)	Nickel Sulfide beta, non stoichiometric	NiS (s)
$\Delta H_{652}^0 = -62.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 34.39 + 28.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (652 ... 1249 K) [4]		$S_{652}^0 = 103.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NiS (s)	Nickel Sulfide beta, non stoichiometric	NiS (s)
$\Delta H_{1249}^0 = -26.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1249}^0 = 142.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NiS (l)	Nickel Sulfide non stoichiometric	NiS (l)
$\Delta H_{1249}^0 = 4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 34.59 + 28.46 \cdot 10^{-3} \cdot T + 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1249 ... 1700 K) [4]		$S_{1249}^0 = 166.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
NiS (l)	Nickel Sulfide non stoichiometric	NiS (l)
$\Delta H_{298}^0 = -62.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 47.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 72.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
NiS (g)	Nickel Sulfide	NiS (g)
$\Delta H_{298}^0 = 357.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 252.3 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
NiS₂ (s)	Nickel Sulfide	NiS₂ (s)
$\Delta H_{298}^0 = -131.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 74.81 + 5.52 \cdot 10^{-3} \cdot T - 1.28 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1068 K) [4]		$S_{298}^0 = 72 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]

NiS₂ (l)	Nickel Sulfide	NiS₂ (l)
$\Delta H_{298}^0 = -66.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 122.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
NiSb (s)	Nickel Antimonide	NiSb (s)
mp = 1433 K (1160 °C)		
$\Delta H_{298}^0 = -83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 46.23 + 11.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1433 K) [4]		
NiSe (s)	Nickel Selenide non stoichiometric	NiSe (s)
mp = 1253 K (980 °C)		
$\Delta H_{298}^0 = -74.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 75.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 40.45 + 29.38 \cdot 10^{-3} \cdot T + 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1253 K) [4]		
NiSe_{1.143} (s)	Nickel Selenide	NiSe_{1.143} (s)
$\Delta H_{298}^0 = -79.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
NiSe_{1.25} (s)	Nickel Selenide	NiSe_{1.25} (s)
$\Delta H_{298}^0 = -83.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 80.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 56.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
NiSe₂ (s)	Nickel Selenide	NiSe₂ (s)
mp = 1123 K (850 °C)		
$\Delta H_{298}^0 = -108.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 103.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 76.65 + 13.14 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1112 K) [4]		

NiSi (s)	Nickel Silicide	NiSi (s)
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mp = 1265 K (992 °C)

$$\Delta H_{298}^0 = -89.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 44.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 48.74 + 6.15 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1265 \text{ K}) [4]$$

NiSi (s)	Nickel Silicide	NiSi (s)
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$$\Delta H_{1265}^0 = -39.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1265}^0 = 117.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

NiSi (l)	Nickel Silicide	NiSi (l)
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$$\Delta H_{1265}^0 = 3.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1265}^0 = 151.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1265 \text{ K}) [4]$$

NiSi₂ (s)	Nickel Silicide	NiSi₂ (s)
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$$\Delta H_{298}^0 = -87.9 \text{ kJ}\cdot\text{mol}^{-1} [181]$$

$$S_{298}^0 = 65.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [181]$$

NiTe (s)	Nickel Telluride	NiTe (s)
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$$\Delta H_{298}^0 = -38.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 84.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.18 + 7.11 \cdot 10^{-3} \cdot T - 0.4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1262 \text{ K}) [4]$$

NiTe_{1,1} (s)	Nickel Telluride	NiTe_{1,1} (s)
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$$\Delta H_{298}^0 = -57.3 \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = 84.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 54.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

NiTe₂ (s)	Nickel Telluride	NiTe₂ (s)
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mp = 978 K (705 °C)

$$\Delta H_{298}^0 = [-87.9] \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = 120.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

$$C_p^0 = 75.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [5]$$

NiTi (s)	Nickel Titanium	NiTi (s)
mp = 1583 K (1310 °C)		
$\Delta H_{298}^0 = -66.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 53.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 53.01 + 9.62 \cdot 10^{-3} \cdot T - 0.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1583 K) [4]		
NiTi₂ (s)	Nickel Titanium	NiTi₂ (s)
$\Delta H_{298}^0 = -83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.99 + 23.43 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1257 K) [4]		
Ni₂O₄Si (s)	Nickel Silicate	Ni₂O₄Si (s)
2NiO · SiO ₂ (s)		2NiO · SiO ₂ (s)
$\Delta H_{298}^0 = -1397.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 185.1 + 19.87 \cdot 10^{-3} \cdot T - 5.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1818 K) [4]		
Ni₂P (s)	Nickel Phosphide	Ni₂P (s)
mp = 1383 K (1110 °C)		
$\Delta H_{298}^0 = -184.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 77.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 57.95 + 23.01 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1383 K) [4]		
Ni₂Te₃ (s)	Nickel Telluride	Ni₂Te₃ (s)
$\Delta H_{298}^0 = -144.8 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ni₃P (s)	Nickel Phosphide	Ni₃P (s)
$\Delta H_{298}^0 = -220 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 77.82 + 33.47 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1243 K) [4]		
Ni₃S₂ (s)	Nickel Sulfide alpha	Ni₃S₂ (s)
mp = 1079 K (806 °C)		
$\Delta H_{298}^0 = -216.3 \pm 5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 133.9 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 110.79 + 51.67 \cdot 10^{-3} \cdot T - 0.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 829 K) [4]		

Ni₃S₂ (s)	Nickel Sulfide alpha	Ni₃S₂ (s)
$\Delta H_{829}^0 = -143.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{829}^0 = 270.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ni₃S₂ (s)	Nickel Sulfide beta	Ni₃S₂ (s)
$\Delta H_{829}^0 = -87.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 188.62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (829 K) [4]		$S_{829}^0 = 338.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ni₃S₂ (s)	Nickel Sulfide beta	Ni₃S₂ (s)
$\Delta H_{1079}^0 = -40.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1079}^0 = 388.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ni₃S₂ (l)	Nickel Sulfide	Ni₃S₂ (l)
$\Delta H_{1079}^0 = -20.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 191.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1079 K) [4]		$S_{1079}^0 = 406.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Ni₃S₂ (l)	Nickel Sulfide	Ni₃S₂ (l)
$\Delta H_{298}^0 = -143.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 117.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 215.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Ni₃S₄ (s)	Nickel Sulfide	Ni₃S₄ (s)
$\Delta H_{298}^0 = -301.1 \pm 25.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 121.96 + 143.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 629 K) [4]		$S_{298}^0 = 186.5 \pm 16.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Ni₃Sn (s)	Nickel Tin	Ni₃Sn (s)
$\Delta H_{298}^0 = -93.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 86.94 + 42.68 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 900 K) [3]		$S_{298}^0 = 131.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Ni₃Sn₂ (s)	Nickel Tin	Ni₃Sn₂ (s)
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mp = 1537 K (1264 °C)

$$\Delta H_{298}^0 = -156.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 108.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ni₃Sn₄ (s)	Nickel Tin	Ni₃Sn₄ (s)
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$$\Delta H_{298}^0 = -177.3 \text{ kJ}\cdot\text{mol}^{-1} [69]$$

$$S_{298}^0 = [257.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [14]$$

Ni₃Ti (s)	Nickel Titanium	Ni₃Ti (s)
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mp = 1653 K (1380 °C)

$$\Delta H_{298}^0 = -139.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 108.95 + 16.86 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1653 \text{ K}) [4]$$

$$S_{298}^0 = 138.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Ni₅P₂ (s)	Nickel Phosphide	Ni₅P₂ (s)
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mp = 1448 K (1175 °C)

$$\Delta H_{298}^0 = -436 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 135.14 + 56.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1448 \text{ K}) [4]$$

$$S_{298}^0 = 184.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Ni₇Si₁₃ (s)	Nickel Silicide	Ni₇Si₁₃ (s)
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$$\Delta H_{298}^0 = -586.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 436.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 436.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Np (s)	Neptunium alpha	Np (s)
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mp = 912 K (639 °C)

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 29.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

$$S_{298}^0 = 50.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Np (s)	Neptunium alpha	Np (s)
$\Delta H_{553}^0 = 9.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{553}^0 = 72.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (553 K) [2]		
Np (s)	Neptunium beta	Np (s)
$\Delta H_{553}^0 = 14.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{553}^0 = 82.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (553 K) [2]		
Np (s)	Neptunium beta	Np (s)
$\Delta H_{849}^0 = 26.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{849}^0 = 99.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (849 K) [2]		
Np (s)	Neptunium gamma	Np (s)
$\Delta H_{849}^0 = 31.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{849}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (849 K) [2]		
Np (s)	Neptunium gamma	Np (s)
$\Delta H_{912}^0 = 34 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{912}^0 = 108 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (912 K) [2]		
Np (l)	Neptunium	Np (l)
$\Delta H_{912}^0 = 39.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{912}^0 = 113.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (912 K) [2]		
Np (g)	Neptunium	Np (g)
$\Delta H_{298}^0 = 464.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 197.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

O (g)	Oxygen	O (g)
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$\Delta H_{298}^0 = 249.2 \pm 0.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 161.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.01 - 0.25 \cdot 10^{-3} \cdot T + 0.09 \cdot 10^6 \cdot T^{-2} + 0.07 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		

OP (g) PO (g)	Phosphorus(II) Oxide	OP (g) PO (g)
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$\Delta H_{298}^0 = -23.3 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 222.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

OPb (s) PbO (s)	Lead(II) Oxide red	OPb (s) PbO (s)
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mp = 1159 K (886 °C)		bp = 1897 K (1624 °C)
$\Delta H_{298}^0 = -220 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 65.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 52.38 + 8.66 \cdot 10^{-3} \cdot T - 0.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 762 K) [4]		

OPb (s) PbO (s)	Lead(II) Oxide red	OPb (s) PbO (s)
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$\Delta H_{762}^0 = -195.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{762}^0 = 114.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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OPb (s) PbO (s)	Lead(II) Oxide yellow	OPb (s) PbO (s)
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$\Delta H_{762}^0 = -194.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{762}^0 = 115.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.27 + 12.8 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (762 ... 1159 K) [4]		
$\lg(p, K) = -15.66 \cdot 10^3 \cdot T^{-1} - 2.56 \cdot \lg(T) + 16.72$ (900 ... 1159 K) [4]		
{Reaction: evaporation as PbO(g)}		

OPb (s) PbO (s)	Lead(II) Oxide yellow	OPb (s) PbO (s)
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$\Delta H_{1159}^0 = -171.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1159}^0 = 139.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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OPb (l)	Lead(II) Oxide	OPb (l)
PbO (l)		PbO (l)

$\Delta H_{1159}^0 = -145.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1159}^0 = 162.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 65.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1159 K) [4]		
$\lg(p, K) = -14.66 \cdot 10^3 \cdot T^{-1} - 3.32 \cdot \lg(T) + 18.18$ (1159 ... 1897 K) [4]		
{Reaction: evaporation as PbO(g)}		

OPb (l)	Lead(II) Oxide	OPb (l)
PbO (l)		PbO (l)

$\Delta H_{298}^0 = -202.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 73.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 65.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1159 K) [4]		

OPb (g)	Lead(II) Oxide	OPb (g)
PbO (g)		PbO (g)

$\Delta H_{298}^0 = 70.3 \pm 7.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 240 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.18 + 1.05 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

OPd (s)	Palladium(II) Oxide	OPd (s)
PdO (s)		PdO (s)

mp = 1143 K (870 °C)		
$\Delta H_{298}^0 = -114.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 37.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 45.31 + 7.03 \cdot 10^{-3} \cdot T - 13 \cdot 10^6 \cdot T^{-2} + 0.38 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1148 K) [4]		
$\lg(p, K) = -12.08 \cdot 10^3 \cdot T^{-1} - 1.32 \cdot \lg(T) + 14.57$ (700 ... 1148 K) [4]		
{Reaction: decomposition $2\text{PdO(s)} = 2\text{Pd(s)} + \text{O}_2\text{(g)}$ }		

OPd (g)	Palladium(II) Oxide	OPd (g)
PdO (g)		PdO (g)

$\Delta H_{298}^0 = 348.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 218 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.73 + 3.52 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

OPu (s) PuO (s)	Plutonium(II) Oxide	OPu (s) PuO (s)
mp = 2173 K (1900 °C)		
$\Delta H_{298}^0 = -564.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 70.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 53.1 + 10.21 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2173 K) [4]		
ORb₂ (s) Rb ₂ O (s)	Rubidium Oxide alpha	ORb₂ (s) Rb ₂ O (s)
mp = 778 K (505 °C)		
$\Delta H_{298}^0 = -338.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 60.25 + 46.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 613 K) [4]		
ORb₂ (s) Rb ₂ O (s)	Rubidium Oxide alpha	ORb₂ (s) Rb ₂ O (s)
$\Delta H_{613}^0 = -313.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{613}^0 = 183.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ORb₂ (s) Rb ₂ O (s)	Rubidium Oxide beta	ORb₂ (s) Rb ₂ O (s)
$\Delta H_{613}^0 = -308.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{613}^0 = 190.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 89.96 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (613 K) [4]		
ORb₂ (s) Rb ₂ O (s)	Rubidium Oxide beta	ORb₂ (s) Rb ₂ O (s)
$\Delta H_{778}^0 = -293.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{778}^0 = 212.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
ORb₂ (l) Rb ₂ O (l)	Rubidium Oxide	ORb₂ (l) Rb ₂ O (l)
$\Delta H_{778}^0 = -272.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{778}^0 = 239.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 95.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (778 K) [4]		

ORh (g) RhO (g)	Rhodium Oxide	ORh (g) RhO (g)
$\Delta H_{298}^0 = 410 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 229.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.87 - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
OS (g) SO (g)	Sulfur(II) Oxide	OS (g) SO (g)
$\Delta H_{298}^0 = 5 \pm 1.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 221.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 34.56 + 1.34 \cdot 10^{-3} \cdot T - 0.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
OS₂ (g) S ₂ O (g)	Sulfur Oxide	OS₂ (g) S ₂ O (g)
$\Delta H_{298}^0 = -40.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 267 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.97 + 2.17 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
OSb (g) SbO (g)	Antimony(II) Oxide	OSb (g) SbO (g)
$\Delta H_{298}^0 = -103.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 238.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.44 + 3.51 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [6]		
OSc (g) ScO (g)	Scandium Oxide	OSc (g) ScO (g)
$\Delta H_{298}^0 = -54 \text{ kJ}\cdot\text{mol}^{-1}$ [93]		$S_{298}^0 = 224.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [93]
OSe (g) SeO (g)	Selenium(II) Oxide	OSe (g) SeO (g)
$\Delta H_{298}^0 = 62.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 234 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34.94 + 1.51 \cdot 10^{-3} \cdot T - 0.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

OSi (g)	Silicon(II) Oxide	OSi (g)
SiO (g)		SiO (g)

$$\Delta H_{298}^0 = -98.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 211.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 32.66 + 2.86 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

OSn (s)	Tin(II) Oxide	OSn (s)
SnO (s)		SnO (s)

$$\text{mp} = 1250 \text{ K (977 }^\circ\text{C)} \qquad \text{bp} = 2100 \text{ K (1827 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -285.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{298}^0 = 57.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 50.49 + 9.17 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1250 K) [4]}$$

$$\lg(p, K) = -16.74 \cdot 10^3 \cdot T^{-1} - 3.24 \cdot \lg(T) + 19.08 \text{ (1000 ... 1250 K) [4]}$$

{Reaction: evaporation as SnO(g)}

OSn (s)	Tin(II) Oxide	OSn (s)
SnO (s)		SnO (s)

$$\Delta H_{1250}^0 = -232.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{1250}^0 = 135.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

OSn (l)	Tin(II) Oxide	OSn (l)
SnO (l)		SnO (l)

$$\Delta H_{1250}^0 = -211.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{1250}^0 = 152.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1250 K) [4]}$$

$$\lg(p, K) = -15.54 \cdot 10^3 \cdot T^{-1} - 3.04 \cdot \lg(T) + 17.5 \text{ (1250 ... 2100 K) [4]}$$

{Reaction: evaporation as SnO(g)}

OSn (g)	Tin(II) Oxide	OSn (g)
SnO (g)		SnO (g)

$$\Delta H_{298}^0 = 20.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 232.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 35.23 + 1.34 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2100 K) [4]}$$

OSr (s)	Strontium Oxide	OSr (s)
SrO (s)		SrO (s)

$$\text{mp} = 2938 \text{ K (2665 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -592 \pm 3.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 55.5 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 50.75 + 6.07 \cdot 10^{-3} \cdot T - 0.63 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

OSr (l)	Strontium Oxide	OSr (l)
SrO (l)		SrO (l)

$$\Delta H_{298}^0 = -517.3 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 45.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

OSr (g)	Strontium Oxide	OSr (g)
SrO (g)		SrO (g)

$$\Delta H_{298}^0 = -13.4 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 230.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 43.07 - 13.07 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} + 7.59 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

OTa (g)	Tantalum(II) Oxide	OTa (g)
TaO (g)		TaO (g)

$$\Delta H_{298}^0 = 192.5 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 241.1 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 32.95 + 4.77 \cdot 10^{-3} \cdot T - 0.39 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2058 \text{ K}) [4]$$

OTe (g)	Tellurium(II) Oxide	OTe (g)
TeO (g)		TeO (g)

$$\Delta H_{298}^0 = 74.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 240.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 35.31 + 1.34 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

OTh (g)	Thorium(II) Oxide	OTh (g)
ThO (g)		ThO (g)

$$\Delta H_{298}^0 = -28.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 240.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 32 + 5.49 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2500 \text{ K}) [4]$$

OTi (s)	Titanium(II) Oxide alpha	OTi (s)
TiO (s)		TiO (s)

mp = 2023 K (1750 °C)

$$\Delta H_{298}^0 = -542.7 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 34.8 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 44.22 + 15.06 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1213 \text{ K}) [4]$$

OTi (s) TiO (s)	Titanium(II) Oxide alpha	OTi (s) TiO (s)
$\Delta H_{1213}^0 = -493.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1213}^0 = 106.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
OTi (s) TiO (s)	Titanium(II) Oxide beta	OTi (s) TiO (s)
$\Delta H_{1213}^0 = -489.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1213}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.18 + 17.56 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1213 ... 2023 K) [4]		
OTi (s) TiO (s)	Titanium(II) Oxide beta	OTi (s) TiO (s)
$\Delta H_{298}^0 = -538.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 42.18 + 17.56 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1213 ... 2023 K) [4]		
OTi (l) TiO (l)	Titanium(II) Oxide	OTi (l) TiO (l)
$\Delta H_{298}^0 = -493.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 60.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 40 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
OTi (g) TiO (g)	Titanium(II) Oxide	OTi (g) TiO (g)
$\Delta H_{298}^0 = 54.4 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 233.5 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.04 + 0.97 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2023 K) [4]		
OTI₂ (s) Tl ₂ O (s)	Thallium(I) Oxide	OTI₂ (s) Tl ₂ O (s)
mp = 852 K (579 °C)		$S_{298}^0 = 145.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$\Delta H_{298}^0 = -169 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		
$C_p^0 = 75.42 + 20.33 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 852 K) [4]		
$\lg(p,K) = -9.78 \cdot 10^3 \cdot T^{-1} - 4.06 \cdot \lg(T) + 21.03$ (600 ... 852 K) [4]		
{Reaction: evaporation as Tl ₂ O(g)}		

OTI₂ (s) Tl ₂ O (s)	Thallium(I) Oxide	OTI₂ (s) Tl ₂ O (s)
$\Delta H_{852}^0 = -121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{852}^0 = 234.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
OTI₂ (l) Tl ₂ O (l)	Thallium(I) Oxide	OTI₂ (l) Tl ₂ O (l)
$\Delta H_{852}^0 = -91.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{852}^0 = 269.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 111.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (852 K) [4]		
$\lg(p, K) = -9.08 \cdot 10^3 \cdot T^{-1} - 6.45 \cdot \lg(T) + 27.22$ (852 ... 1257 K) [4]		
{Reaction: evaporation as Tl ₂ O(g)}		
OTI₂ (g) Tl ₂ O (g)	Thallium(I) Oxide	OTI₂ (g) Tl ₂ O (g)
$\Delta H_{298}^0 = 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 317.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 55.61 + 2.71 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
OV (s) VO (s)	Vanadium(II) Oxide	OV (s) VO (s)
mp = 1973 K (1700 °C)		
$\Delta H_{298}^0 = -431.8 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 39 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 50.21 + 11.84 \cdot 10^{-3} \cdot T - 1.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1973 K) [4]		
OV (l) VO (l)	Vanadium(II) Oxide	OV (l) VO (l)
$\Delta H_{298}^0 = -370.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 69.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 45.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
OV (g) VO (g)	Vanadium(II) Oxide	OV (g) VO (g)
$\Delta H_{298}^0 = 127.6 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 230.9 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

OW (g)	Tungsten(II) Oxide	OW (g)
WO (g)		WO (g)

$$\Delta H_{298}^0 = 425.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 248.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 33.29 + 2.8 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

OZn (s)	Zinc Oxide	OZn (s)
ZnO (s)		ZnO (s)

$$\Delta H_{298}^0 = -350.5 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 43.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 45.34 + 7.29 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2242 \text{ K}) [4]$$

OZr (g)	Zirconium(II) Oxide	OZr (g)
ZrO (g)		ZrO (g)

$$\Delta H_{298}^0 = 58.6 \pm 50.2 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 227.6 \pm 8.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 13.37 + 37.09 \cdot 10^{-3} \cdot T + 0.72 \cdot 10^6 \cdot T^{-2} - 8.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2125 \text{ K}) [4]$$

O₂ (g)	Oxygen	O₂ (g)
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$$\text{mp} = 55 \text{ K } (-218 \text{ }^\circ\text{C}) \qquad \text{bp} = 90 \text{ K } (-183 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 205.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 29.15 + 6.48 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} - 1.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3200 \text{ K}) [4]$$

$$\lg(p, K) = -13.18 \cdot 10^3 \cdot T^{-1} + 0.18 \cdot \lg(T) + 2.82 (1100 \dots 3200 \text{ K}) [4]$$

{Reaction: decomposition 1/2O₂(g) = O(g)}

O₂Os (s)	Osmium(IV) Oxide	O₂Os (s)
OsO ₂ (s)		OsO ₂ (s)

$$\Delta H_{298}^0 = -295 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 51.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 69.96 + 10.38 \cdot 10^{-3} \cdot T - 1.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1201 \text{ K}) [4]$$

O₂P (g)	Phosphorus(IV) Oxide	O₂P (g)
PO ₂ (g)		PO ₂ (g)

$$\Delta H_{298}^0 = -276.6 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 252.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 53.21 + 2.62 \cdot 10^{-3} \cdot T - 1.15 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

O₂Pb (s) PbO ₂ (s)	Lead(IV) Oxide	O₂Pb (s) PbO ₂ (s)
$\Delta H_{298}^0 = -282.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 57.05 + 29 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 587 K) [4]		
$\lg(p,K) = -6.12 \cdot 10^3 \cdot T^{-1} + 0.37 \cdot \lg(T) + 9.4$ (400 ... 587 K) [4]		
{Reaction: decomposition $3\text{PbO}_2(\text{s}) = \text{Pb}_3\text{O}_4(\text{s}) + \text{O}_2(\text{g})$ }		
O₂Pr (s) PrO ₂ (s)	Praseodymium(IV) Oxide	O₂Pr (s) PrO ₂ (s)
$\Delta H_{298}^0 = -974.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 79.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 77.57 + 25.02 \cdot 10^{-3} \cdot T - 1.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 500 K) [4]		
O₂Pt (g) PtO ₂ (g)	Platinum(IV) Oxide	O₂Pt (g) PtO ₂ (g)
$\Delta H_{298}^0 = 171.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 252.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 57.11 + 0.68 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₂Pu (s) PuO ₂ (s)	Plutonium(IV) Oxide	O₂Pu (s) PuO ₂ (s)
mp = 2715 K (2442 °C)		
$\Delta H_{298}^0 = -1055.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 66.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 86.51 + 7.98 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₂Rb (s) RbO ₂ (s)	Rubidium Superoxide	O₂Rb (s) RbO ₂ (s)
$\Delta H_{298}^0 = -278.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 130.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 77.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
O₂Re (s) ReO ₂ (s)	Rhenium(IV) Oxide	O₂Re (s) ReO ₂ (s)
$\Delta H_{298}^0 = -442.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 46.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 67.36 + 12.68 \cdot 10^{-3} \cdot T - 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1370 K) [4]		

O₂Rh (g)	Rhodium(IV) Oxide	O₂Rh (g)
RhO ₂ (g)		RhO ₂ (g)

$$\Delta H_{298}^0 = -184 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 263.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [2]}$$

O₂Ru (s)	Ruthenium(IV) Oxide	O₂Ru (s)
RuO ₂ (s)		RuO ₂ (s)

$$\Delta H_{298}^0 = -305 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 58.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 76.63 + 10.8 \cdot 10^{-3} \cdot T - 2.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1200 K) [4]}$$

O₂S (g)	Sulfur Dioxide	O₂S (g)
SO ₂ (g)		SO ₂ (g)

$$\text{mp} = 198 \text{ K (-75 }^\circ\text{C)}$$

$$\text{bp} = 263 \text{ K (-10 }^\circ\text{C)}$$

$$\Delta H_{298}^0 = -296.8 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]}$$

$$S_{298}^0 = 248.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 49.94 + 4.77 \cdot 10^{-3} \cdot T - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

O₂Se (s)	Selenium(IV) Oxide	O₂Se (s)
SeO ₂ (s)		SeO ₂ (s)

$$\Delta H_{298}^0 = -225.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$\text{bp} = 601 \text{ K (328 }^\circ\text{C)}$$

$$S_{298}^0 = 66.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 69.58 + 3.89 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 601 K) [4]}$$

$$\lg(p, K) = -6.39 \cdot 10^3 \cdot T^{-1} - 2 \cdot \lg(T) + 16.19 \text{ (400 ... 601 K) [4]}$$

{Reaction: evaporation as SeO₂(g)}

O₂Se (g)	Selenium(IV) Oxide	O₂Se (g)
SeO ₂ (g)		SeO ₂ (g)

$$\Delta H_{298}^0 = -107.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 265 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 52.84 + 3.09 \cdot 10^{-3} \cdot T - 0.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Cristobalite	O₂Si (s) SiO ₂ (s)
mp = 2001 K (1728 °C)		
$\Delta H^0_{298} = -908.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 43.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.9 + 31.51 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 543 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Cristobalite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{543} = -895.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{543} = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (543 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide beta-Cristobalite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{543} = -893.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{543} = 77.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.63 + 1.88 \cdot 10^{-3} \cdot T - 3.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (543 ... 1079 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide beta-Cristobalite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{1079} = -858.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1079} = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.31 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1079 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide gamma-Cristobalite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{1079} = -856.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1079} = 124.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 71.63 + 1.88 \cdot 10^{-3} \cdot T - 3.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1079 ... 2001 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide gamma-Cristobalite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{2001} = -789.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{2001} = 169.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.42 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2001 K) [4]		

O₂Si (l) SiO ₂ (l)	Silicon Oxide	O₂Si (l) SiO ₂ (l)
$\Delta H^0_{2001} = -779.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 85.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2001 K) [4]		$S^0_{2001} = 174.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Quartz	O₂Si (s) SiO ₂ (s)
mp = 1823 K (1550 °C) $\Delta H^0_{298} = -910.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 40.5 + 44.6 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -847 K) [4]		$S^0_{298} = 41.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Quartz	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{847} = -876.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 77.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (847 K) [4]		$S^0_{847} = 104.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂Si (s) SiO ₂ (s)	Silicon Oxide beta-Quartz	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{847} = -875.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 67.59 + 2.58 \cdot 10^{-3} \cdot T - 0.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (847 ... 1823 K) [4]		$S^0_{847} = 105 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Trydimite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{298} = -910 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 14.11 + 102.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 390 K) [4]		$S^0_{298} = 43.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂Si (s) SiO ₂ (s)	Silicon Oxide alpha-Trydimite	O₂Si (s) SiO ₂ (s)
$\Delta H^0_{390} = -905.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 54.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (390 K) [4]		$S^0_{390} = 56.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₂Si (s) SiO ₂ (s)	Silicon Oxide beta-Trydimite	O₂Si (s) SiO ₂ (s)
$\Delta H_{390}^0 = -905.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{390}^0 = 57.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 41.07 + 38.49 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (390 ... 500 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide beta-Trydimite	O₂Si (s) SiO ₂ (s)
$\Delta H_{500}^0 = -898.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{500}^0 = 71.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 60.32 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (500 K) [4]		
O₂Si (s) SiO ₂ (s)	Silicon Oxide gamma-Trydimite	O₂Si (s) SiO ₂ (s)
$\Delta H_{500}^0 = -898.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{500}^0 = 71.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.34 + 2.54 \cdot 10^{-3} \cdot T - 3.17 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (500 ... 1743 K) [4]		
O₂Si (g) SiO ₂ (g)	Silicon Oxide	O₂Si (g) SiO ₂ (g)
$\Delta H_{298}^0 = -305.4 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 229 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₂Sn (s) SnO ₂ (s)	Tin(IV) Oxide	O₂Sn (s) SnO ₂ (s)
mp = 1893 K (1620 °C)		
$\Delta H_{298}^0 = -580.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 52.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 66.47 + 16.64 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1893 K) [4]		
O₂Sr (s) SrO ₂ (s)	Strontium Superoxide	O₂Sr (s) SrO ₂ (s)
$\Delta H_{298}^0 = -633.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 59 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.97 + 18.41 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 423 K) [4]		

O₂Ta (g)	Tantalum(IV) Oxide	O₂Ta (g)
TaO ₂ (g)		TaO ₂ (g)

$$\Delta H_{298}^0 = -200.8 \pm 62.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [1]} \qquad S_{298}^0 = 280.3 \pm 11.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [1]}$$

$$C_p^0 = 54.81 + 1.67 \cdot 10^{-3} \cdot T - 1.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2058 K) [4]}$$

O₂Tb (s)	Terbium(IV) Oxide	O₂Tb (s)
TbO ₂ (s)		TbO ₂ (s)

$$\Delta H_{298}^0 = -971.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 82.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 64.81 + 17.7 \cdot 10^{-3} \cdot T - 0.76 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 401 K) [4]}$$

O₂Tc (s)	Technetium(IV) Oxide	O₂Tc (s)
TcO ₂ (s)		TcO ₂ (s)

$$\Delta H_{298}^0 = -433 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 58.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 68.62 + 11.51 \cdot 10^{-3} \cdot T - 1.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1200 K) [4]}$$

O₂Te (s)	Tellurium(IV) Oxide	O₂Te (s)
TeO ₂ (s)		TeO ₂ (s)

$$\text{mp} = 1006 \text{ K (733 } ^\circ\text{C)} \qquad \text{bp} = 1533 \text{ K (1260 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -323.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]} \qquad S_{298}^0 = 74.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 65.19 + 14.56 \cdot 10^{-3} \cdot T - 0.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1006 K) [4]}$$

$$\lg(\rho, K) = -14.1 \cdot 10^3 \cdot T^{-1} - 2.68 \cdot \lg(T) + 18.4 \text{ (800 ... 1006 K) [4]}$$

{Reaction: evaporation as TeO₂(g)}

O₂Te (s)	Tellurium(IV) Oxide	O₂Te (s)
TeO ₂ (s)		TeO ₂ (s)

$$\Delta H_{1006}^0 = -271.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]} \qquad S_{1006}^0 = 161.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

O₂Te (l)	Tellurium(IV) Oxide	O₂Te (l)
TeO ₂ (l)		TeO ₂ (l)

$$\Delta H_{1006}^0 = -242.7 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{1006}^0 = 190.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 112.63 + 2.18 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (1006 ... 1533 K) [4]}$$

$$\lg(p, K) = -14.48 \cdot 10^3 \cdot T^{-1} - 7.02 \cdot \lg(T) + 31.81 \text{ (1006 ... 1533 K) [4]}$$

{Reaction: evaporation as TeO₂(g)}

O₂Te (g)	Tellurium(IV) Oxide	O₂Te (g)
TeO ₂ (g)		TeO ₂ (g)

$$\Delta H_{298}^0 = -61.3 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 275 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 54.77 + 2.42 \cdot 10^{-3} \cdot T - 1.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

O₂Te₂ (g)	Tellurium(II) Oxide	O₂Te₂ (g)
Te ₂ O ₂ (g)		Te ₂ O ₂ (g)

$$\Delta H_{298}^0 = -108.8 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 327.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 82.11 + 0.56 \cdot 10^{-3} \cdot T - 1.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

O₂Th (s)	Thorium(IV) Oxide	O₂Th (s)
ThO ₂ (s)		ThO ₂ (s)

$$\text{mp} = 3643 \text{ K (3370 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = -1226.4 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 65.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 71.37 + 7.57 \cdot 10^{-3} \cdot T - 1.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2500 K) [4]}$$

O₂Th (g)	Thorium(IV) Oxide	O₂Th (g)
ThO ₂ (g)		ThO ₂ (g)

$$\Delta H_{298}^0 = -496.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 287.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 55.72 + 1.26 \cdot 10^{-3} \cdot T - 0.78 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2500 K) [4]}$$

O₂Ti (s)	Titanium(IV) Oxide	O₂Ti (s)
TiO ₂ (s)	Rutile	TiO ₂ (s)

mp = 2130 K (1857 °C)

$$\Delta H_{298}^0 = -944.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 50.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 73.35 + 3.05 \cdot 10^{-3} \cdot T - 1.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2130 \text{ K}) [4]$$

O₂Ti (s)	Titanium(IV) Oxide	O₂Ti (s)
TiO ₂ (s)	Anatase	TiO ₂ (s)

mp = 1949 K (1676 °C)

$$\Delta H_{298}^0 = -941.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 49.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 76.36 + 0.84 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1949 \text{ K}) [4]$$

O₂Ti (l)	Titanium(IV) Oxide	O₂Ti (l)
TiO ₂ (l)		TiO ₂ (l)

$$\Delta H_{298}^0 = -894.1 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 72.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

O₂Ti (g)	Titanium(IV) Oxide	O₂Ti (g)
TiO ₂ (g)		TiO ₂ (g)

$$\Delta H_{298}^0 = -305.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 260.1 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 54.32 + 2.02 \cdot 10^{-3} \cdot T - 1.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2130 \text{ K}) [4]$$

O₂U (s)	Uranium(IV) Oxide	O₂U (s)
UO ₂ (s)		UO ₂ (s)

mp = 3115 K (2842 °C)

$$\Delta H_{298}^0 = -1085 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 77.9 + 8.98 \cdot 10^{-3} \cdot T - 1.51 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

O₂U (g)	Uranium(IV) Oxide	O₂U (g)
UO ₂ (g)		UO ₂ (g)

$$\Delta H_{298}^0 = -476.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 274.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 51.12 + 4.16 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3115 \text{ K}) [4]$$

O₂U₂ (g) U ₂ O ₂ (g)	Uranium Oxide	O₂U₂ (g) U ₂ O ₂ (g)
$\Delta H^0_{298} = 388.5 \pm 24 \text{ kJ}\cdot\text{mol}^{-1}$ [253]		$S^0_{298} = [388.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
O₂V (s) VO ₂ (s)	Vanadium(IV) Oxide alpha	O₂V (s) VO ₂ (s)
mp = 1818 K (1545 °C)		
$\Delta H^0_{298} = -713.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 47.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.01 + 2.43 \cdot 10^{-3} \cdot T - 1.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 341 K) [4]		
O₂V (s) VO ₂ (s)	Vanadium(IV) Oxide alpha	O₂V (s) VO ₂ (s)
$\Delta H^0_{341} = -711.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{341} = 55 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂V (s) VO ₂ (s)	Vanadium(IV) Oxide beta	O₂V (s) VO ₂ (s)
$\Delta H^0_{341} = -707 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{341} = 67.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.68 + 7.11 \cdot 10^{-3} \cdot T - 1.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (341 ... 1818 K) [4]		
O₂V (s) VO ₂ (s)	Vanadium(IV) Oxide beta	O₂V (s) VO ₂ (s)
$\Delta H^0_{1818} = -589.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1818} = 196.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂V (l) VO ₂ (l)	Vanadium(IV) Oxide	O₂V (l) VO ₂ (l)
$\Delta H^0_{1818} = -532.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1818} = 227.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 106.69 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1818 K) [4]		

O₂V (g) VO ₂ (g)	Vanadium(IV) Oxide	O₂V (g) VO ₂ (g)
$\Delta H_{298}^0 = -232.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 265.3 \pm 5.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 43.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₂W (s) WO ₂ (s)	Tungsten(IV) Oxide	O₂W (s) WO ₂ (s)
$\Delta H_{298}^0 = -589.7 \pm 0.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.5 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 62.1 + 17.04 \cdot 10^{-3} \cdot T - 0.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1803 K) [4]		
O₂W (g) WO ₂ (g)	Tungsten(IV) Oxide	O₂W (g) WO ₂ (g)
$\Delta H_{298}^0 = 76.6 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 285.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 52.13 + 3.69 \cdot 10^{-3} \cdot T - 0.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -36.07 \cdot 10^3 \cdot T^{-1} - 4.01 \cdot \lg(T) + 25.11$ (1800 ... 2000 K) [4]		
{Reaction: evaporation of WO ₂ (s)}		
O₂Zr (s) ZrO ₂ (s)	Zirconium(IV) Oxide alpha	O₂Zr (s) ZrO ₂ (s)
mp = 2950 K (2677 °C)		
$\Delta H_{298}^0 = -1100.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 50.4 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 70.12 + 7.02 \cdot 10^{-3} \cdot T - 1.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1478 K) [4]		
O₂Zr (s) ZrO ₂ (s)	Zirconium(IV) Oxide alpha	O₂Zr (s) ZrO ₂ (s)
$\Delta H_{1478}^0 = -1014.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1478}^0 = 163.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₂Zr (s) ZrO ₂ (s)	Zirconium(IV) Oxide beta	O₂Zr (s) ZrO ₂ (s)
$\Delta H_{1478}^0 = -1007.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1478}^0 = 167.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 78.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1478 K) [4]		

O₂Zr (l) ZrO ₂ (l)	Zirconium(IV) Oxide	O₂Zr (l) ZrO ₂ (l)
$\Delta H_{298}^0 = -1023.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 74.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 56.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₂Zr (g) ZrO ₂ (g)	Zirconium(IV) Oxide	O₂Zr (g) ZrO ₂ (g)
$\Delta H_{298}^0 = -286.2 \pm 46 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 273.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.89 + 1.02 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
O_{2.72}W (s) WO _{2.72} (s)	Tungsten Oxide	O_{2.72}W (s) WO _{2.72} (s)
mp = 1870 K (1597 °C)		
$\Delta H_{298}^0 = -781.2 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 68.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 84.5 + 12.18 \cdot 10^{-3} \cdot T - 1.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1870 K) [4]		
O_{2.90}W (s) WO _{2.90} (s)	Tungsten Oxide	O_{2.90}W (s) WO _{2.90} (s)
mp = 1710 K (1437 °C)		
$\Delta H_{298}^0 = -820.1 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 73.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 89.32 + 11.54 \cdot 10^{-3} \cdot T - 1.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1710 K) [4]		
O_{2.96}W (s) WO _{2.96} (s)	Tungsten Oxide	O_{2.96}W (s) WO _{2.96} (s)
$\Delta H_{298}^0 = -835 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 72.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₃ (g)	Ozone	O₃ (g)
mp = 80 K (-193 °C)		bp = 161 K (-112 °C)
$\Delta H_{298}^0 = 142.7 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 238.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.26 + 2 \cdot 10^{-3} \cdot T - 1.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

O₃Os (g)	Osmium(VI) Oxide	O₃Os (g)
OsO ₃ (g)		OsO ₃ (g)

$$\Delta H_{298}^0 = -167.4 \pm 12.6 \text{ kJ}\cdot\text{mol}^{-1} [60]$$

$$S_{298}^0 = 276.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [60]$$

O₃PbSe (s)	Lead Selenite	O₃PbSe (s)
PbSeO ₃ (s)		PbSeO ₃ (s)

$$\Delta H_{298}^0 = -538 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 128.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 99.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

O₃PbSi (s)	Lead Silicate	O₃PbSi (s)
PbO · SiO ₂ (s)		PbO · SiO ₂ (s)

$$\text{mp} = 1037 \text{ K} (764 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1138.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 109.9 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 112.24 + 21.95 \cdot 10^{-3} \cdot T - 2.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1037 \text{ K}) [4]$$

O₃PbSi (s)	Lead Silicate	O₃PbSi (s)
PbO · SiO ₂ (s)		PbO · SiO ₂ (s)

$$\Delta H_{1037}^0 = -1050.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1037}^0 = 252.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

O₃PbSi (l)	Lead Silicate	O₃PbSi (l)
PbO · SiO ₂ (l)		PbO · SiO ₂ (l)

$$\Delta H_{1037}^0 = -1016.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1037}^0 = 285.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 130.12 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1037 \text{ K}) [4]$$

O₃PbTi (s)	Lead Titanate alpha	O₃PbTi (s)
PbO · TiO ₂ (s)		PbO · TiO ₂ (s)

$$\text{mp} = 1443 \text{ K} (1170 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1194.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 111.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 119.54 + 17.91 \cdot 10^{-3} \cdot T - 1.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 763 \text{ K}) [4]$$

O₃PbTi (s) PbO · TiO ₂ (s)	Lead Titanate alpha	O₃PbTi (s) PbO · TiO ₂ (s)
$\Delta H_{763}^0 = -1138.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{763}^0 = 223.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃PbTi (s) PbO · TiO ₂ (s)	Lead Titanate beta	O₃PbTi (s) PbO · TiO ₂ (s)
$\Delta H_{763}^0 = -1133.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{763}^0 = 230.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 109.08 + 22.8 \cdot 10^{-3} \cdot T - 1.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (763 ... 1443 K) [4]		
O₃Pm₂ (s) Pm ₂ O ₃ (s)	Promethium(III) Oxide	O₃Pm₂ (s) Pm ₂ O ₃ (s)
$\Delta H_{298}^0 = -1811 \pm 21 \text{ kJ}\cdot\text{mol}^{-1}$ [269]		$S_{298}^0 = [158.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [270]
O₃PrSr (s) SrPrO ₃ (s)	Strontium Praseodymium Oxide	O₃PrSr (s) SrPrO ₃ (s)
$\Delta H_{298}^0 = -1588.4 \pm 4.1 \text{ kJ}\cdot\text{mol}^{-1}$ [126]		$S_{298}^0 = [135.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [127]
$C_p^0 = [118.33] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
O₃Pr₂ (s) Pr ₂ O ₃ (s)	Praseodymium(III) Oxide	O₃Pr₂ (s) Pr ₂ O ₃ (s)
mp = 2570 K (2297 °C)		
$\Delta H_{298}^0 = -1809.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 119.66 + 17.78 \cdot 10^{-3} \cdot T - 0.74 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₃Pu₂ (s) Pu ₂ O ₃ (s)	Plutonium(III) Oxide	O₃Pu₂ (s) Pu ₂ O ₃ (s)
$\Delta H_{298}^0 = -1799.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 153.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 156.58 + 22.26 \cdot 10^{-3} \cdot T - 2.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

O₃Rb₂Si (s)	Rubidium Silicate	O₃Rb₂Si (s)
Rb ₂ O · SiO ₂ (s)		Rb ₂ O · SiO ₂ (s)

mp = 1143 K (870 °C)

$$\Delta H_{298}^0 = -1536.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 161.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 123.68 + 49.2 \cdot 10^{-3} \cdot T - 1.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1143 \text{ K}) [4]$$

O₃Rb₂Si (s)	Rubidium Silicate	O₃Rb₂Si (s)
Rb ₂ O · SiO ₂ (s)		Rb ₂ O · SiO ₂ (s)

$$\Delta H_{1143}^0 = -1406.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1143}^0 = 359.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

O₃Rb₂Si (l)	Rubidium Silicate	O₃Rb₂Si (l)
Rb ₂ O · SiO ₂ (l)		Rb ₂ O · SiO ₂ (l)

$$\Delta H_{1143}^0 = -1364.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1143}^0 = 395.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 177.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1143 \text{ K}) [4]$$

O₃Re (s)	Rhenium(VI) Oxide	O₃Re (s)
ReO ₃ (s)		ReO ₃ (s)

$$\Delta H_{298}^0 = -594.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 80.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 87.66 + 16.17 \cdot 10^{-3} \cdot T - 1.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 950 \text{ K}) [4]$$

O₃Rh₂ (s)	Rhodium(III) Oxide	O₃Rh₂ (s)
Rh ₂ O ₃ (s)		Rh ₂ O ₃ (s)

$$\Delta H_{298}^0 = -355.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 86.78 + 57.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1412 \text{ K}) [4]$$

O₃Ru (g)	Ruthenium(VI) Oxide	O₃Ru (g)
RuO ₃ (g)		RuO ₃ (g)

$$\Delta H_{298}^0 = -78.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 276.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 59.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

O₃S (l) SO ₃ (l)	Sulfur Trioxide	O₃S (l) SO ₃ (l)
$\Delta H_{298}^0 = -438.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 179.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		bp = 318 K (45 °C) $S_{298}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃S (g) SO ₃ (g)	Sulfur Trioxide	O₃S (g) SO ₃ (g)
$\Delta H_{298}^0 = -395.8 \pm 0.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 70 + 6.61 \cdot 10^{-3} \cdot T - 1.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 256.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₃Sb₂ (s) Sb ₂ O ₃ (s)	Antimony(III) Oxide cubic	O₃Sb₂ (s) Sb ₂ O ₃ (s)
mp = 929 K (656 °C) $\Delta H_{298}^0 = -720.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 111.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		bp = 1729 K (1456 °C) $S_{298}^0 = 110.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃Sb₂ (s) Sb ₂ O ₃ (s)	Antimony(III) Oxide rhombohedral	O₃Sb₂ (s) Sb ₂ O ₃ (s)
$\Delta H_{298}^0 = -708.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 101.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 123 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃Sc₂ (s) Sc ₂ O ₃ (s)	Scandium(III) Oxide	O₃Sc₂ (s) Sc ₂ O ₃ (s)
$\Delta H_{298}^0 = -1908.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 99.79 + 22.22 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃Se (s) SeO ₃ (s)	Selenium(VI) Oxide	O₃Se (s) SeO ₃ (s)
mp = 394 K (121 °C) $\Delta H_{298}^0 = -170.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 14.6 + 205.02 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 394 K) [4]		bp = 592 K (319 °C) $S_{298}^0 = 96.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₃Se (s) SeO ₃ (s)	Selenium(VI) Oxide	O₃Se (s) SeO ₃ (s)
$\Delta H_{394}^0 = -162.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{394}^0 = 119.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃Se (l) SeO ₃ (l)	Selenium(VI) Oxide	O₃Se (l) SeO ₃ (l)
$\Delta H_{394}^0 = -155 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 125.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (394 K) [4]		$S_{394}^0 = 138 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃SeZn (s) ZnSeO ₃ (s)	Zinc Selenite	O₃SeZn (s) ZnSeO ₃ (s)
mp = 894 K (621 °C) $\Delta H_{298}^0 = -652.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 77.2 + 55.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 894 K) [4]		$S_{298}^0 = 98.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃SeZn (s) ZnSeO ₃ (s)	Zinc Selenite	O₃SeZn (s) ZnSeO ₃ (s)
$\Delta H_{894}^0 = -586.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{894}^0 = 216 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃SeZn (l) ZnSeO ₃ (l)	Zinc Selenite	O₃SeZn (l) ZnSeO ₃ (l)
$\Delta H_{894}^0 = -540.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 140.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (894 K) [4]		$S_{894}^0 = 267.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃SiSr (s) SrO · SiO ₂ (s)	Strontium Silicate	O₃SiSr (s) SrO · SiO ₂ (s)
mp = 1853 K (1580 °C) $\Delta H_{298}^0 = -1633.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 116.73 + 11.09 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1853 K) [4]		$S_{298}^0 = 96.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

O₃SiZn (s) ZnO · SiO ₂ (s)	Zinc Silicate	O₃SiZn (s) ZnO · SiO ₂ (s)
mp = 1710 K (1437 °C)		
$\Delta H_{298}^0 = -1262.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 89.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 84.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
O₃Sm₂ (s) Sm ₂ O ₃ (s)	Samarium(III) Oxide alpha, cubic	O₃Sm₂ (s) Sm ₂ O ₃ (s)
mp = 2543 K (2270 °C)		
$\Delta H_{298}^0 = -1827.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 144.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 129 + 20.23 \cdot 10^{-3} \cdot T - 1.71 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1195 K) [4]		
O₃Sm₂ (s) Sm ₂ O ₃ (s)	Samarium(III) Oxide alpha, cubic	O₃Sm₂ (s) Sm ₂ O ₃ (s)
$\Delta H_{1195}^0 = -1702.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1195}^0 = 333 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃Sm₂ (s) Sm ₂ O ₃ (s)	Samarium(III) Oxide beta, monoclinic	O₃Sm₂ (s) Sm ₂ O ₃ (s)
$\Delta H_{1195}^0 = -1701.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1195}^0 = 333.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.39 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1195 K) [4]		
O₃SrTb (s) SrO · TbO ₂ (s)	Strontium Terbium Oxide	O₃SrTb (s) SrO · TbO ₂ (s)
$\Delta H_{298}^0 = -1612.9 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [179]		$S_{298}^0 = [138.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [192]
$C_p^0 = [106.99] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		
O₃SrTe (s) SrO · TeO ₂ (s)	Strontium Tellurium Oxide	O₃SrTe (s) SrO · TeO ₂ (s)
$\Delta H_{298}^0 = -1026 \pm 10.7 \text{ kJ}\cdot\text{mol}^{-1}$ [106]		$S_{298}^0 = [129.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [107]
$C_p^0 = [109.36] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]		

O₃SrTi (s)	Strontium Titanate	O₃SrTi (s)
SrO · TiO ₂ (s)		SrO · TiO ₂ (s)

mp = 2183 K (1910 °C)

$$\Delta H_{298}^0 = -1670.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 118.11 + 8.54 \cdot 10^{-3} \cdot T - 1.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298-2000 \text{ K}) [4]$$

O₃SrZr (s)	Strontium Zirconate	O₃SrZr (s)
SrO · ZrO ₂ (s)		SrO · ZrO ₂ (s)

mp = 3000 K (2727 °C)

$$\Delta H_{298}^0 = -1767.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 108.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 121.25 + 12.22 \cdot 10^{-3} \cdot T - 2.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

O₃Tb₂ (s)	Terbium(III) Oxide	O₃Tb₂ (s)
Tb ₂ O ₃ (s)		Tb ₂ O ₃ (s)

mp = 2663 K (2390 °C)

$$\Delta H_{298}^0 = -1865.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 122.62 + 20.72 \cdot 10^{-3} \cdot T - 1.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1800 \text{ K}) [4]$$

O₃Tc (s)	Technetium(VI) Oxide	O₃Tc (s)
TcO ₃ (s)		TcO ₃ (s)

$$\Delta H_{298}^0 = -539.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 107.95 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [4]$$

O₃Ti₂ (s)	Titanium(III) Oxide	O₃Ti₂ (s)
Ti ₂ O ₃ (s)		Ti ₂ O ₃ (s)

mp = 2115 K (1842 °C)

$$\Delta H_{298}^0 = -1520.9 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 77.3 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 53.07 + 163.44 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 600 \text{ K}) [4]$$

O₃Ti₂ (l) Ti ₂ O ₃ (l)	Titanium(III) Oxide	O₃Ti₂ (l) Ti ₂ O ₃ (l)
$\Delta H_{298}^0 = -1418.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 94.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 127.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₃Tl₂ (s) Tl ₂ O ₃ (s)	Thallium(III) Oxide	O₃Tl₂ (s) Tl ₂ O ₃ (s)
mp = 1107 K (834 °C) $\Delta H_{298}^0 = -394.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 136.71 + 2.36 \cdot 10^{-3} \cdot T - 2.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1107 K) [4]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃Tm₂ (s) Tm ₂ O ₃ (s)	Thulium(III) Oxide alpha	O₃Tm₂ (s) Tm ₂ O ₃ (s)
$\Delta H_{298}^0 = -1888.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 127.87 + 4.47 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1680 K) [4]		$S_{298}^0 = 139.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₃Tm₂ (s) Tm ₂ O ₃ (s)	Thulium(III) Oxide alpha	O₃Tm₂ (s) Tm ₂ O ₃ (s)
$\Delta H_{1680}^0 = -1708.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1680}^0 = 361 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃Tm₂ (s) Tm ₂ O ₃ (s)	Thulium(III) Oxide beta	O₃Tm₂ (s) Tm ₂ O ₃ (s)
$\Delta H_{1680}^0 = -1707.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 133.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1680 K) [4]		$S_{1680}^0 = 361.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃U (s) UO ₃ (s)	Uranium(VI) Oxide	O₃U (s) UO ₃ (s)
$\Delta H_{298}^0 = -1226.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 90.37 + 11.05 \cdot 10^{-3} \cdot T - 1.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1050 K) [4]		$S_{298}^0 = 98.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₃U (g) UO ₃ (g)	Uranium(VI) Oxide	O₃U (g) UO ₃ (g)
$\Delta H^0_{298} = 802 \pm 24 \text{ kJ}\cdot\text{mol}^{-1}$ [253]		$S^0_{298} = [352.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
O₃U₂ (g) U ₂ O ₃ (g)	Uranium Oxide	O₃U₂ (g) U ₂ O ₃ (g)
$\Delta H^0_{298} = 807.5 \pm 32 \text{ kJ}\cdot\text{mol}^{-1}$ [253]		$S^0_{298} = [431.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
O₃V₂ (s) V ₂ O ₃ (s)	Vanadium(III) Oxide	O₃V₂ (s) V ₂ O ₃ (s)
mp = 2240 K (1967 °C)		
$\Delta H^0_{298} = -1218.8 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 98.1 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 112.97 + 19.29 \cdot 10^{-3} \cdot T - 1.5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₃V₂ (l) V ₂ O ₃ (l)	Vanadium(III) Oxide	O₃V₂ (l) V ₂ O ₃ (l)
$\Delta H^0_{298} = -1093.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 152.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 105 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₃W (s) WO ₃ (s)	Tungsten(VI) Oxide alpha	O₃W (s) WO ₃ (s)
mp = 1745 K (1472 °C)		bp = 2115 K (1842 °C)
$\Delta H^0_{298} = -842.9 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 75.9 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 87.66 + 16.17 \cdot 10^{-3} \cdot T - 1.75 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1050 K) [4]		
O₃W (s) WO ₃ (s)	Tungsten(VI) Oxide alpha	O₃W (s) WO ₃ (s)
$\Delta H^0_{1050} = -773 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1050} = 189.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₃W (s) WO ₃ (s)	Tungsten(VI) Oxide beta	O₃W (s) WO ₃ (s)
$\Delta H_{1050}^0 = -771.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1050}^0 = 190.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 80.96 + 16.37 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1050 ... 1745 K) [4]		
O₃W (s) WO ₃ (s)	Tungsten(VI) Oxide beta	O₃W (s) WO ₃ (s)
$\Delta H_{1745}^0 = -699.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1745}^0 = 243.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃W (l) WO ₃ (l)	Tungsten(VI) Oxide	O₃W (l) WO ₃ (l)
$\Delta H_{1745}^0 = -625.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1745}^0 = 285.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1745 K) [4]		
O₃W (l) WO ₃ (l)	Tungsten(VI) Oxide	O₃W (l) WO ₃ (l)
$\Delta H_{298}^0 = -788.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 103.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 73.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₃W (g) WO ₃ (g)	Tungsten(VI) Oxide	O₃W (g) WO ₃ (g)
$\Delta H_{298}^0 = -292.9 \pm 29.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 286.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 77.51 + 2.94 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2115 K) [4]		
$\lg(p, K) = -27.72 \cdot 10^3 \cdot T^{-1} - 5.9 \cdot \lg(T) + 28.67$ (1745 ... 2115 K) [4]		
{Reaction: evaporation of WO ₃ (s)}		
O₃Xe (g) XeO ₃ (g)	Xenon(VI) Oxide	O₃Xe (g) XeO ₃ (g)
$\Delta H_{298}^0 = 502 \text{ kJ}\cdot\text{mol}^{-1}$ [7]		$S_{298}^0 = 287 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [7]
$C_p^0 = 62 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [7]		

O₃Y₂ (s) Y ₂ O ₃ (s)	Yttrium(III) Oxide alpha	O₃Y₂ (s) Y ₂ O ₃ (s)
mp = 2700 K (2427 °C)		
$\Delta H_{298}^0 = -1905.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 99.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 123.1 + 5.94 \cdot 10^{-3} \cdot T - 1.99 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1330 K) [4]		
O₃Y₂ (s) Y ₂ O ₃ (s)	Yttrium(III) Oxide alpha	O₃Y₂ (s) Y ₂ O ₃ (s)
$\Delta H_{1330}^0 = -1778.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1330}^0 = 278.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃Y₂ (s) Y ₂ O ₃ (s)	Yttrium(III) Oxide beta	O₃Y₂ (s) Y ₂ O ₃ (s)
$\Delta H_{1330}^0 = -1777.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1330}^0 = 279.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1330 K) [4]		
O₃Yb₂ (s) Yb ₂ O ₃ (s)	Ytterbium(III) Oxide alpha	O₃Yb₂ (s) Yb ₂ O ₃ (s)
mp = 2550 K (2277 °C)		
$\Delta H_{298}^0 = -1814.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 133.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 133.12 + 0.26 \cdot 10^{-3} \cdot T - 1.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1365 K) [4]		
O₃Yb₂ (s) Yb ₂ O ₃ (s)	Ytterbium(III) Oxide alpha	O₃Yb₂ (s) Yb ₂ O ₃ (s)
$\Delta H_{1365}^0 = -1676.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1365}^0 = 327.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₃Yb₂ (s) Yb ₂ O ₃ (s)	Ytterbium(III) Oxide beta	O₃Yb₂ (s) Yb ₂ O ₃ (s)
$\Delta H_{1365}^0 = -1675.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1365}^0 = 327.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 134.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1365 K) [4]		

O₄Os (s) OsO ₄ (s)	Osmium(VIII) Oxide	O₄Os (s) OsO ₄ (s)
mp = 314 K (41 °C)		
$\Delta H^0_{298} = -393.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 136.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 151.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -4.3 \cdot 10^3 \cdot T^{-1} - 9.18 \cdot \lg(T) + 35.11$ (298 ... 314 K) [4]		
{Reaction: evaporation as OsO ₄ (g)}		
O₄Os (s) OsO ₄ (s)	Osmium(VIII) Oxide	O₄Os (s) OsO ₄ (s)
$\Delta H^0_{314} = -391.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
		$S^0_{314} = 144.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄Os (l) OsO ₄ (l)	Osmium(VIII) Oxide	O₄Os (l) OsO ₄ (l)
$\Delta H^0_{314} = -377 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
		$S^0_{314} = 190.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 157.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (314 K) [4]		
O₄Os (g) OsO ₄ (g)	Osmium(VIII) Oxide	O₄Os (g) OsO ₄ (g)
$\Delta H^0_{298} = -334.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
		$S^0_{298} = 297.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 85.98 + 20.42 \cdot 10^{-3} \cdot T - 1.6 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₄PbS (s) PbSO ₄ (s)	Lead Sulfate alpha	O₄PbS (s) PbSO ₄ (s)
mp = 1443 K (1170 °C)		
$\Delta H^0_{298} = -919.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 148.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.18 + 102.51 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1139 K) [4]		
O₄PbS (s) PbSO ₄ (s)	Lead Sulfate alpha	O₄PbS (s) PbSO ₄ (s)
$\Delta H^0_{1139} = -796 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
		$S^0_{1139} = 333.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₄PbS (s) PbSO ₄ (s)	Lead Sulfate beta	O₄PbS (s) PbSO ₄ (s)
$\Delta H_{1139}^0 = -778.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1139 K) [4]		$S_{1139}^0 = 348.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄PbS (s) PbSO ₄ (s)	Lead Sulfate beta	O₄PbS (s) PbSO ₄ (s)
$\Delta H_{1443}^0 = -722.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1443}^0 = 392 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄PbS (l) PbSO ₄ (l)	Lead Sulfate	O₄PbS (l) PbSO ₄ (l)
$\Delta H_{1443}^0 = -682.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 179.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1443 K) [4]		$S_{1443}^0 = 419.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄PbSe (s) PbSeO ₄ (s)	Lead Selenate	O₄PbSe (s) PbSeO ₄ (s)
$\Delta H_{298}^0 = -609.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 104 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 167.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₄PbW (s) PbO · WO ₃ (s)	Lead Tungstate(VI)	O₄PbW (s) PbO · WO ₃ (s)
mp = 1398 K (1125 °C) $\Delta H_{298}^0 = -1121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 120 + 41.25 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1398 K) [4]		$S_{298}^0 = -167.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄Pb₂Si (s) 2PbO · SiO ₂ (s)	Lead Silicate alpha	O₄Pb₂Si (s) 2PbO · SiO ₂ (s)
mp = 1019 K (746 °C) $\Delta H_{298}^0 = -1369 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 127.7 + 82.55 \cdot 10^{-3} \cdot T - 1.37 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 600 K) [4]		$S_{298}^0 = 186.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₄Pb₃ (s) Pb ₃ O ₄ (s)	Lead Oxide	O₄Pb₃ (s) Pb ₃ O ₄ (s)
$\Delta H_{298}^0 = -730.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 218.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 178.83 + 32.13 \cdot 10^{-3} \cdot T - 2.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 901 K) [4]		
$\lg(p,K) = -7.68 \cdot 10^3 \cdot T^{-1} - 1.91 \cdot \lg(T) + 14.14$ (500 ... 762 K) [4]		
{Reaction: decomposition 2Pb ₃ O ₄ (s) = 6PbO(s) + O ₂ (g)}		
O₄Rb₂S (s) Rb ₂ SO ₄ (s)	Rubidium Sulfate alpha	O₄Rb₂S (s) Rb ₂ SO ₄ (s)
mp = 1342 K (1069 °C)		
$\Delta H_{298}^0 = -1437.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 123.14 + 99.58 \cdot 10^{-3} \cdot T - 1.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 928 K) [4]		
O₄Rb₂S (s) Rb ₂ SO ₄ (s)	Rubidium Sulfate alpha	O₄Rb₂S (s) Rb ₂ SO ₄ (s)
$\Delta H_{928}^0 = -1325 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{928}^0 = 391.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄Rb₂S (s) Rb ₂ SO ₄ (s)	Rubidium Sulfate beta	O₄Rb₂S (s) Rb ₂ SO ₄ (s)
$\Delta H_{928}^0 = -1320.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{928}^0 = 396.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 205.85 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (928 K) [4]		
O₄Rb₂S (s) Rb ₂ SO ₄ (s)	Rubidium Sulfate beta	O₄Rb₂S (s) Rb ₂ SO ₄ (s)
$\Delta H_{1342}^0 = -1235.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1342}^0 = 472 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄Rb₂S (l) Rb ₂ SO ₄ (l)	Rubidium Sulfate	O₄Rb₂S (l) Rb ₂ SO ₄ (l)
$\Delta H_{1342}^0 = -1197.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1342}^0 = 500.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 208.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1342 K) [4]		

O₄Ru (l)	Ruthenium(VIII) Oxide	O₄Ru (l)
RuO ₄ (l)		RuO ₄ (l)
mp = 298 K (25 °C)		bp = 445 K (172 °C)
$\Delta H_{298}^0 = -228.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 183.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 149.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		

O₄Ru (g)	Ruthenium(VIII) Oxide	O₄Ru (g)
RuO ₄ (g)		RuO ₄ (g)
$\Delta H_{298}^0 = -183.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 290.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 101.8 + 3.05 \cdot 10^{-3} \cdot T - 2.4 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2523 K) [4]		

O₄SSn (s)	Tin(II) Sulfate	O₄SSn (s)
SnSO ₄ (s)		SnSO ₄ (s)
$\Delta H_{298}^0 = -887 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 138.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 150.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

O₄SSr (s)	Strontium Sulfate	O₄SSr (s)
SrSO ₄ (s)		SrSO ₄ (s)
mp = 1873 K (1600 °C)		
$\Delta H_{298}^0 = -1453.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 117.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 91.21 + 55.65 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1873 K) [4]		

O₄STl₂ (s)	Thallium(I) Sulfate	O₄STl₂ (s)
Tl ₂ SO ₄ (s)		Tl ₂ SO ₄ (s)
mp = 905 K (632 °C)		
$\Delta H_{298}^0 = -933.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 100.42 + 125.52 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 905 K) [4]		

O₄STl₂ (s)	Thallium(I) Sulfate	O₄STl₂ (s)
Tl ₂ SO ₄ (s)		Tl ₂ SO ₄ (s)
$\Delta H_{905}^0 = -826.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{905}^0 = 388.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₄STl₂ (l) Tl ₂ SO ₄ (l)	Thallium(I) Sulfate	O₄STl₂ (l) Tl ₂ SO ₄ (l)
$\Delta H_{905}^0 = -803.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 205.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (905 K) [4]		$S_{905}^0 = 414.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄STl₂ (g) Tl ₂ SO ₄ (g)	Thallium(I) Sulfate	O₄STl₂ (g) Tl ₂ SO ₄ (g)
$\Delta H_{298}^0 = -674.5 \text{ kJ}\cdot\text{mol}^{-1}$ [9]		$S_{298}^0 = 440.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [9]
O₄SZn (s) ZnSO ₄ (s)	Zinc Sulfate alpha	O₄SZn (s) ZnSO ₄ (s)
$\Delta H_{298}^0 = -980.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 65.82 + 135.71 \cdot 10^{-3} \cdot T - 0.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 540 K) [4]		$S_{298}^0 = 110.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₄SZn (s) ZnSO ₄ (s)	Zinc Sulfate alpha	O₄SZn (s) ZnSO ₄ (s)
$\Delta H_{540}^0 = -951.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{540}^0 = 179.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄SZn (s) ZnSO ₄ (s)	Zinc Sulfate beta	O₄SZn (s) ZnSO ₄ (s)
$\Delta H_{540}^0 = -946.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 130.31 + 11.62 \cdot 10^{-3} \cdot T + 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (540 ... 1013 K) [4]		$S_{540}^0 = 189.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₄SZn (s) ZnSO ₄ (s)	Zinc Sulfate beta	O₄SZn (s) ZnSO ₄ (s)
$\Delta H_{1013}^0 = -880.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1013}^0 = 276.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₄SZn (s) ZnSO ₄ (s)	Zinc Sulfate	O₄SZn (s) ZnSO ₄ (s)
$\Delta H_{1013}^0 = -860.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1013}^0 = 296.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 145.18 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1013 K) [4]		
O₄Sb₂ (s) Sb ₂ O ₄ (s)	Antimony Oxide	O₄Sb₂ (s) Sb ₂ O ₄ (s)
$\Delta H_{298}^0 = -907.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 127 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 99.81 + 49.82 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1524 K) [4]		
O₄SiSr₂ (s) 2SrO · SiO ₂ (s)	Strontium Silicate	O₄SiSr₂ (s) 2SrO · SiO ₂ (s)
mp = 2598 K (2325 °C)		
$\Delta H_{298}^0 = -2304.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 149.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.39 + 31.38 \cdot 10^{-3} \cdot T - 2.93 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
O₄SiZn₂ (s) 2ZnO · SiO ₂ (s)	Zinc Silicate	O₄SiZn₂ (s) 2ZnO · SiO ₂ (s)
mp = 1785 K (1512 °C)		
$\Delta H_{298}^0 = -1644.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 131.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 144.89 + 36.94 \cdot 10^{-3} \cdot T - 3.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1785 K) [4]		
O₄SiZr (s) ZrO ₂ · SiO ₂ (s)	Zirconium Silicate	O₄SiZr (s) ZrO ₂ · SiO ₂ (s)
$\Delta H_{298}^0 = -2035.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 131.71 + 16.4 \cdot 10^{-3} \cdot T - 3.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1949 K) [4]		
O₄SrW (s) SrO · WO ₃ (s)	Strontium Tungstate(VI)	O₄SrW (s) SrO · WO ₃ (s)
mp = 1808 K (1535 °C)		
$\Delta H_{298}^0 = -1621.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 133.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 120.67 + 36.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1808 K) [4]		

O₄Sr₂Ti (s) 2SrO · TiO ₂ (s)	Strontium Titanate	O₄Sr₂Ti (s) 2SrO · TiO ₂ (s)
mp = 2133 K (1860 °C)		
$\Delta H_{298}^0 = -2287.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 160.87 + 16.07 \cdot 10^{-3} \cdot T - 1.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1798 K) [4]		
O₄Te₂ (g) (TeO ₂) ₂ (g)	Tellurium(IV) Oxide	O₄Te₂ (g) (TeO ₂) ₂ (g)
$\Delta H_{298}^0 = -347.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 376.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 131.75 + 0.67 \cdot 10^{-3} \cdot T - 1.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -16.26 \cdot 10^3 \cdot T^{-1} - 3.03 \cdot \lg(T) + 21.18$ (800 ... 1006 K) [4]		
{Reaction: evaporation of TeO ₂ (s)}		
O₄TiZn₂ (s) 2ZnO · TiO ₂ (s)	Zinc Titanate	O₄TiZn₂ (s) 2ZnO · TiO ₂ (s)
mp = 1822 K (1549 °C)		
$\Delta H_{298}^0 = -1649.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 144.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 166.61 + 23.18 \cdot 10^{-3} \cdot T - 3.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1822 K) [4]		
O₄U₂ (g) U ₂ O ₄ (g)	Uranium Oxide	O₄U₂ (g) U ₂ O ₄ (g)
$\Delta H_{298}^0 = 1263 \pm 27 \text{ kJ}\cdot\text{mol}^{-1}$ [253]		$S_{298}^0 = [434.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
O₄V₂ (s) V ₂ O ₄ (s)	Vanadium Oxide	O₄V₂ (s) V ₂ O ₄ (s)
$\Delta H_{298}^0 = -1427.2 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 103.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 115.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₄V₂ (l) V ₂ O ₄ (l)	Vanadium Oxide	O₄V₂ (l) V ₂ O ₄ (l)
$\Delta H_{298}^0 = -1332.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 173.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 120.08 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		

O₄WZn (s)	Zinc Tungstate(VI)	O₄WZn (s)
ZnO · WO ₃ (s)		ZnO · WO ₃ (s)

$$\Delta H_{298}^0 = -1235.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 144.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 113.3 + 40.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1100 \text{ K}) [4]$$

O₅P₂ (l)	Phosphorus(V) Oxide	O₅P₂ (l)
P ₂ O ₅ (l)		P ₂ O ₅ (l)

$$\Delta H_{298}^0 = -1498.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 117.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 156.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

O₅Pb₂S (s)	Lead Oxide Sulfate	O₅Pb₂S (s)
PbO · PbSO ₄ (s)		PbO · PbSO ₄ (s)

$$\text{mp} = 1248 \text{ K} (975 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -1171.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 206.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 129.86 + 105.91 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1248 \text{ K}) [4]$$

O₅Rb₂Si₂ (s)	Rubidium Silicate	O₅Rb₂Si₂ (s)
Rb ₂ O · 2SiO ₂ (s)		Rb ₂ O · 2SiO ₂ (s)

$$\text{mp} = 1363 \text{ K} (1090 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2474.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 193.26 + 50.38 \cdot 10^{-3} \cdot T - 3.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1363 \text{ K}) [4]$$

O₅Rb₂Si₂ (s)	Rubidium Silicate	O₅Rb₂Si₂ (s)
Rb ₂ O · 2SiO ₂ (s)		Rb ₂ O · 2SiO ₂ (s)

$$\Delta H_{1363}^0 = -2232.8 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1363}^0 = 524 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

O₅Rb₂Si₂ (l)	Rubidium Silicate	O₅Rb₂Si₂ (l)
Rb ₂ O · 2SiO ₂ (l)		Rb ₂ O · 2SiO ₂ (l)

$$\Delta H_{1363}^0 = -2178.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1363}^0 = 563.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 259.41 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1363 \text{ K}) [4]$$

O₅SV (s) VOSO ₄ (s)	Vanadyl Sulfate	O₅SV (s) VOSO ₄ (s)
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$$\Delta H_{298}^0 = -1309.2 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 108.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 96.65 + 116.73 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 952 \text{ K}) [4]$$

O₅Sb₂ (s) Sb ₂ O ₅ (s)	Antimony(V) Oxide	O₅Sb₂ (s) Sb ₂ O ₅ (s)
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$$\Delta H_{298}^0 = -993.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 124.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 141.33 - 3.73 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 798 \text{ K}) [4]$$

O₅Se₂ (s) Se ₂ O ₅ (s)	Selenium(V) Oxide	O₅Se₂ (s) Se ₂ O ₅ (s)
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$$\text{mp} = 497 \text{ K} (224 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -413.4 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 141 + 42.68 \cdot 10^{-3} \cdot T - 2.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 497 \text{ K}) [4]$$

O₅SrTe₂ (s) SrO · 2TeO ₂ (s)	Strontium Tellurium Oxide	O₅SrTe₂ (s) SrO · 2TeO ₂ (s)
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$$\Delta H_{298}^0 = -1026 \pm 100.7 \text{ kJ}\cdot\text{mol}^{-1} [106]$$

$$S_{298}^0 = [204.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [108]$$

$$C_p^0 = [173.25] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [271]$$

O₅Ta₂ (s) Ta ₂ O ₅ (s)	Tantalum(V) Oxide	O₅Ta₂ (s) Ta ₂ O ₅ (s)
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$$\text{mp} = 2058 \text{ K} (1785 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -2046 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 143.1 \pm 1.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 165.96 + 17.93 \cdot 10^{-3} \cdot T - 3.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2058 \text{ K}) [4]$$

O₅Ta₂ (l) Ta ₂ O ₅ (l)	Tantalum(V) Oxide	O₅Ta₂ (l) Ta ₂ O ₅ (l)
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$$\Delta H_{298}^0 = -1957.2 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 183.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 135 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

O₅Ti₃ (s) Ti ₃ O ₅ (s)	Titanium Oxide alpha	O₅Ti₃ (s) Ti ₃ O ₅ (s)
mp = 2050 K (1777 °C)		
$\Delta H_{298}^0 = -2459.1 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 129.4 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 231.04 - 24.77 \cdot 10^{-3} \cdot T - 6.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 450 K) [4]		
O₅Ti₃ (s) Ti ₃ O ₅ (s)	Titanium Oxide alpha	O₅Ti₃ (s) Ti ₃ O ₅ (s)
$\Delta H_{450}^0 = -2432.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{450}^0 = 201.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₅Ti₃ (s) Ti ₃ O ₅ (s)	Titanium Oxide beta	O₅Ti₃ (s) Ti ₃ O ₅ (s)
$\Delta H_{450}^0 = -2419.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{450}^0 = 230.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 158.99 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (450 ... 2050 K) [4]		
O₅Ti₃ (s) Ti ₃ O ₅ (s)	Titanium Oxide beta	O₅Ti₃ (s) Ti ₃ O ₅ (s)
$\Delta H_{298}^0 = -2446.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 157.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 158.99 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (450 ... 2050 K) [4]		
O₅Ti₃ (l) Ti ₃ O ₅ (l)	Titanium Oxide	O₅Ti₃ (l) Ti ₃ O ₅ (l)
$\Delta H_{298}^0 = -2289.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 232.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 174 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
O₅V₂ (s) V ₂ O ₅ (s)	Vanadium(V) Oxide	O₅V₂ (s) V ₂ O ₅ (s)
mp = 952 K (679 °C)		
$\Delta H_{298}^0 = -1550.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 130.5 \pm 2.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 141 + 42.68 \cdot 10^{-3} \cdot T - 2.34 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 952 K) [4]		

O₅V₂ (s) V ₂ O ₅ (s)	Vanadium(V) Oxide	O₅V₂ (s) V ₂ O ₅ (s)
$\Delta H_{952}^0 = -1445.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{952}^0 = 310.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 179.04 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (952 K) [4]		
O₅V₂ (l) V ₂ O ₅ (l)	Vanadium(V) Oxide	O₅V₂ (l) V ₂ O ₅ (l)
$\Delta H_{952}^0 = -1379 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{952}^0 = 380.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 190.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (952 K) [4]		
O₅V₂ (l) V ₂ O ₅ (l)	Vanadium(V) Oxide	O₅V₂ (l) V ₂ O ₅ (l)
$\Delta H_{298}^0 = -1491.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 192 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 190.37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (952 K) [4]		
O₅V₃ (s) V ₃ O ₅ (s)	Vanadium Oxide	O₅V₃ (s) V ₃ O ₅ (s)
$\Delta H_{298}^0 = -1933 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 163 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 176.46 + 34.78 \cdot 10^{-3} \cdot T - 2.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		
O₆P₄ (l) P ₄ O ₆ (l)	Phosphorus(III) Oxide	O₆P₄ (l) P ₄ O ₆ (l)
mp = 296 K (23 °C)		bp = 446 K (173 °C)
$\Delta H_{298}^0 = -2263.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 229.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 238.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p, K) = -3.73 \cdot 10^3 \cdot T^{-1} - 8.93 \cdot \lg(T) + 32.03$ (298 ... 446 K) [4]		
{Reaction: evaporation as P ₄ O ₆ (g)}		
O₆P₄ (g) P ₄ O ₆ (g)	Phosphorus(III) Oxide	O₆P₄ (g) P ₄ O ₆ (g)
$\Delta H_{298}^0 = -2214.3 \pm 33.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 345.6 \pm 33.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 216.36 + 8.67 \cdot 10^{-3} \cdot T - 6.8 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

O₆Pb₃S (s) 2PbO · PbSO ₄ (s)	Lead Oxide Sulfate	O₆Pb₃S (s) 2PbO · PbSO ₄ (s)
mp = 1234 K (961 °C)		
$\Delta H_{298}^0 = -1399.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 274.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 175.13 + 118.71 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1234 K) [4]		
O₆Pb₄Si (s) 4PbO · SiO ₂ (s)	Lead Silicate	O₆Pb₄Si (s) 4PbO · SiO ₂ (s)
mp = 994 K (721 °C)		
$\Delta H_{298}^0 = -1801.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 331.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 222.67 + 87.45 \cdot 10^{-3} \cdot T - 1.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 994 K) [4]		
O₆PuSr₃ (s) 3SrO · PuO ₃ (s)	Strontium Plutonium Oxide	O₆PuSr₃ (s) 3SrO · PuO ₃ (s)
$\Delta H_{298}^0 = -3041.9 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [171]		$S_{298}^0 = [265.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [177]
O₆SU (s) UO ₂ SO ₄ (s)	Uranyl Sulfate	O₆SU (s) UO ₂ SO ₄ (s)
$\Delta H_{298}^0 = -1845.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 112.47 + 108.78 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1084 K) [4]		
O₆Sb₄ (s) Sb ₄ O ₆ (s)	Antimony(III) Oxide	O₆Sb₄ (s) Sb ₄ O ₆ (s)
mp = 928 K (655 °C)		
$\Delta H_{298}^0 = -1417.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 246 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 228.03 + 16.64 \cdot 10^{-3} \cdot T - 2.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 928 K) [4]		
O₆Sb₄ (g) Sb ₄ O ₆ (g)	Antimony(III) Oxide	O₆Sb₄ (g) Sb ₄ O ₆ (g)
$\Delta H_{298}^0 = -1215.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 444.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 217.64 + 14.11 \cdot 10^{-3} \cdot T - 3.47 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

O₆W₂ (g) (WO ₃) ₂ (g)	Tungsten(VI) Oxide	O₆W₂ (g) (WO ₃) ₂ (g)
$\Delta H_{298}^0 = -1164 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 415.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 181.17 + 0.42 \cdot 10^{-3} \cdot T - 2.53 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2115 K) [4]		
$\lg(p,K) = -28.26 \cdot 10^3 \cdot T^{-1} - 3.57 \cdot \lg(T) + 25.47$ (1300 ... 1745 K) [4]		
{Reaction: evaporation of WO ₃ (s)}		
O₇Pb₄S (s) 3PbO · PbSO ₄ (s)	Lead Oxide Sulfate	O₇Pb₄S (s) 3PbO · PbSO ₄ (s)
$\Delta H_{298}^0 = -1626.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 340.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 220.41 + 131.51 \cdot 10^{-3} \cdot T - 0.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1168 K) [4]		
O₇Re₂ (s) Re ₂ O ₇ (s)	Rhenium(VII) Oxide	O₇Re₂ (s) Re ₂ O ₇ (s)
mp = 570 K (297 °C)		
$\Delta H_{298}^0 = -1241.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 207.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 121.96 + 184.1 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 570 K) [4]		
$\lg(p,K) = -8.14 \cdot 10^3 \cdot T^{-1} - 3.2 \cdot \lg(T) + 22.46$ (400 ... 570 K) [4]		
{Reaction: evaporation as Re ₂ O ₇ (g)}		
O₇Re₂ (s) Re ₂ O ₇ (s)	Rhenium(VII) Oxide	O₇Re₂ (s) Re ₂ O ₇ (s)
$\Delta H_{570}^0 = -1188 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{570}^0 = 332.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₇Re₂ (l) Re ₂ O ₇ (l)	Rhenium(VII) Oxide	O₇Re₂ (l) Re ₂ O ₇ (l)
$\Delta H_{570}^0 = -1121.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{570}^0 = 448.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 297.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (570 K) [4]		
O₇Re₂ (l) Re ₂ O ₇ (l)	Rhenium(VII) Oxide	O₇Re₂ (l) Re ₂ O ₇ (l)
$\Delta H_{632}^0 = -1103.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{632}^0 = 479.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₇Re₂ (g)	Rhenium(VII) Oxide	O₇Re₂ (g)
Re ₂ O ₇ (g)		Re ₂ O ₇ (g)

$\Delta H_{632}^0 = -1036.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{632}^0 = 585.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 189.49 + 1.15 \cdot 10^{-3} \cdot T - 2.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (632 ... 2000 K) [4]	

O₇Re₂ (g)	Rhenium(VII) Oxide	O₇Re₂ (g)
Re ₂ O ₇ (g)		Re ₂ O ₇ (g)

$\Delta H_{298}^0 = -1096.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 451.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 189.49 + 1.15 \cdot 10^{-3} \cdot T - 2.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	

O₇Si₂SrZr (s)	Strontium Zirconium Silicate	O₇Si₂SrZr (s)
SrZrSi ₂ O ₇ (s)		SrZrSi ₂ O ₇ (s)

$\Delta H_{298}^0 = -3640.8 \pm 4.2 \text{ kJ}\cdot\text{mol}^{-1}$ [121]	$S_{298}^0 = [192.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [125]
$C_p^0 = [190.57] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

O₇Si₂Y₂ (s)	Yttrium Silicate	O₇Si₂Y₂ (s)
Y ₂ Si ₂ O ₇ (s)		Y ₂ Si ₂ O ₇ (s)

$\Delta H_{298}^0 = -3854.8 \pm 6.8 \text{ kJ}\cdot\text{mol}^{-1}$ [128]	$S_{298}^0 = [185.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [129]
$C_p^0 = [191.28] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [271]	

O₇Sm₂Zr₂ (s)	Samarium Zirconate	O₇Sm₂Zr₂ (s)
Sm ₂ O ₃ · 2ZrO ₂ (s)		Sm ₂ O ₃ · 2ZrO ₂ (s)

$\Delta H_{298}^0 = -4130.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 251.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 266.94 + 33.89 \cdot 10^{-3} \cdot T - 4.69 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]	

O₇Tc₂ (s)	Technetium(VII) Oxide	O₇Tc₂ (s)
Tc ₂ O ₇ (s)		Tc ₂ O ₇ (s)

mp = 392 K (119 °C)	bp = 583 K (310 °C)
$\Delta H_{298}^0 = -1112.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]	$S_{298}^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 104.6 + 355.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 392 K) [4]	

O₇Tc₂ (s) Tc ₂ O ₇ (s)	Technetium(VII) Oxide	O₇Tc₂ (s) Tc ₂ O ₇ (s)
$\Delta H_{392}^0 = -1091.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 244.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (392 K) [4]		$S_{392}^0 = 246.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₇Tc₂ (l) Tc ₂ O ₇ (l)	Technetium(VII) Oxide	O₇Tc₂ (l) Tc ₂ O ₇ (l)
$\Delta H_{392}^0 = -1043.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 280.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (392 K) [4]		$S_{392}^0 = 368.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₇Tc₂ (g) Tc ₂ O ₇ (g)	Technetium(VII) Oxide	O₇Tc₂ (g) Tc ₂ O ₇ (g)
$\Delta H_{298}^0 = -982.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 147.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 474.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₇Ti₄ (s) Ti ₄ O ₇ (s)	Titanium Oxide	O₇Ti₄ (s) Ti ₄ O ₇ (s)
mp = 1950 K (1677 °C) $\Delta H_{298}^0 = -3404.5 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 281.58 + 19.25 \cdot 10^{-3} \cdot T - 7.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1950 K) [4]		$S_{298}^0 = 198.7 \pm 12.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₇Ti₄ (l) Ti ₄ O ₇ (l)	Titanium Oxide	O₇Ti₄ (l) Ti ₄ O ₇ (l)
$\Delta H_{298}^0 = -3216 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 208.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 291.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
O₇V₄ (s) V ₄ O ₇ (s)	Vanadium Oxide	O₇V₄ (s) V ₄ O ₇ (s)
$\Delta H_{298}^0 = -2640 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 239.95 + 50.27 \cdot 10^{-3} \cdot T - 3.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		$S_{298}^0 = 218 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₇Y₂Zr₂ (s) Y ₂ Zr ₂ O ₇ (s)	Yttrium Zirconium Oxide	O₇Y₂Zr₂ (s) Y ₂ Zr ₂ O ₇ (s)
$\Delta H_{298}^0 = -4122 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 215 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 200 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₈MgSi₂Sr₃ (s) 3SrO · MgO · 2SiO ₂ (s)	Strontium Magnesium Silicate	O₈MgSi₂Sr₃ (s) 3SrO · MgO · 2SiO ₂ (s)
$\Delta H_{298}^0 = -4575.3 \pm 5.1 \text{ kJ}\cdot\text{mol}^{-1}$ [81] $C_p^0 = 257.35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [81]		$S_{298}^0 = 280.2 \pm 0.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [81]
O₈P₂Zn₃ (s) Zn ₃ (PO ₄) ₂ (s)	Zinc Phosphate	O₈P₂Zn₃ (s) Zn ₃ (PO ₄) ₂ (s)
$\Delta H_{298}^0 = -2899.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 234.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 237 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₈PuS₂ (s) Pu(SO ₄) ₂ (s)	Plutonium(IV) Sulfate	O₈PuS₂ (s) Pu(SO ₄) ₂ (s)
$\Delta H_{298}^0 = -2238.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 117.57 + 215.48 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 974 K) [4]		$S_{298}^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₈S₂Sn (s) Sn(SO ₄) ₂ (s)	Tin(IV) Sulfate	O₈S₂Sn (s) Sn(SO ₄) ₂ (s)
$\Delta H_{298}^0 = -1648.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 284.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 149.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
O₈S₂Th (s) Th(SO ₄) ₂ (s)	Thorium(IV) Sulfate	O₈S₂Th (s) Th(SO ₄) ₂ (s)
$\Delta H_{298}^0 = -2542.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 104.6 + 230.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1162 K) [4]		$S_{298}^0 = 148.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

O₈S₂U (s) U(SO ₄) ₂ (s)	Uranium(IV) Sulfate	O₈S₂U (s) U(SO ₄) ₂ (s)
$\Delta H_{298}^0 = -2318 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 164 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 104.6 + 230.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 735 K) [4]		
O₈U₃ (s) U ₃ O ₈ (s)	Uranium Oxide	O₈U₃ (s) U ₃ O ₈ (s)
$\Delta H_{298}^0 = -3574.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 282.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 282.42 + 36.94 \cdot 10^{-3} \cdot T - 5 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1600 K) [4]		
O₈W₃ (g) W ₃ O ₈ (g)	Tungsten Oxide	O₈W₃ (g) W ₃ O ₈ (g)
$\Delta H_{298}^0 = -1710 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 494 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 250 + 3.99 \cdot 10^{-3} \cdot T - 4.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2115 K) [4]		
O₉Rb₂Si₄ (s) Rb ₂ O · 4SiO ₂ (s)	Rubidium Silicate	O₉Rb₂Si₄ (s) Rb ₂ O · 4SiO ₂ (s)
mp = 1173 K (900 °C)		
$\Delta H_{298}^0 = -4318.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 278.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 255.35 + 124.56 \cdot 10^{-3} \cdot T - 1.92 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1173 K) [4]		
O₉Rb₂Si₄ (s) Rb ₂ O · 4SiO ₂ (s)	Rubidium Silicate	O₉Rb₂Si₄ (s) Rb ₂ O · 4SiO ₂ (s)
$\Delta H_{1173}^0 = -4019.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1173}^0 = 726.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
O₉Rb₂Si₄ (l) Rb ₂ O · 4SiO ₂ (l)	Rubidium Silicate	O₉Rb₂Si₄ (l) Rb ₂ O · 4SiO ₂ (l)
$\Delta H_{1173}^0 = -3973.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1173}^0 = 766.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 397.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1173 K) [4]		

O₉S₂Zn₃ (s)	Zinc Oxide Sulfate	O₉S₂Zn₃ (s)
ZnO · 2ZnSO ₄ (s)		ZnO · 2ZnSO ₄ (s)

$$\Delta H_{298}^0 = -2320.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 264.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 201.71 + 157.4 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 778 \text{ K}) [4]$$

O₉U₄ (s)	Uranium Oxide	O₉U₄ (s)
U ₄ O ₉ (s)		U ₄ O ₉ (s)

$$\Delta H_{298}^0 = -4510.4 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 334.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 356.27 + 35.44 \cdot 10^{-3} \cdot T - 6.64 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1396 \text{ K}) [4]$$

O₉W₃ (g)	Tungsten(VI) Oxide	O₉W₃ (g)
(WO ₃) ₃ (g)		(WO ₃) ₃ (g)

$$\Delta H_{298}^0 = -2023.4 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 504.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 274.48 + 4.23 \cdot 10^{-3} \cdot T - 4.81 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2115 \text{ K}) [4]$$

$$\lg(p, K) = -27.72 \cdot 10^3 \cdot T^{-1} - 4.44 \cdot \lg(T) + 28.87 (1200 \dots 1745 \text{ K}) [4]$$

{Reaction: evaporation of WO₃(s)}

O₁₀P₄ (s)	Phosphorus(V) Oxide	O₁₀P₄ (s)
P ₄ O ₁₀ (s)		P ₄ O ₁₀ (s)

$$\Delta H_{298}^0 = -3009.9 \pm 8.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 228.8 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 149.8 + 324.7 \cdot 10^{-3} \cdot T - 3.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 631 \text{ K}) [4]$$

$$\lg(p, K) = -6.47 \cdot 10^3 \cdot T^{-1} - 6.12 \cdot \lg(T) + 27.39 (400 \dots 631 \text{ K}) [4]$$

{Reaction: evaporation as P₄O₁₀(g)}

O₁₀P₄ (g)	Phosphorus(V) Oxide	O₁₀P₄ (g)
P ₄ O ₁₀ (g)		P ₄ O ₁₀ (g)

$$\Delta H_{298}^0 = -2904.1 \pm 8.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 404 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 292.83 + 19.19 \cdot 10^{-3} \cdot T - 10.72 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

O₁₀Sr₄Ti₃ (s) 4SrO · 3TiO ₂ (s)	Strontium Titanate	O₁₀Sr₄Ti₃ (s) 4SrO · 3TiO ₂ (s)
$\Delta H_{298}^0 = -5648.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 365.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 397.1 + 33.14 \cdot 10^{-3} \cdot T - 5.79 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1853 K) [4]		
O₁₀Sr₄Zr₃ (s) 4SrO · 3ZrO ₂ (s)	Strontium Zirconate	O₁₀Sr₄Zr₃ (s) 4SrO · 3ZrO ₂ (s)
$\Delta H_{298}^0 = -5972.8 \text{ kJ}\cdot\text{mol}^{-1}$ [82]		$S_{298}^0 = 394.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [82]
$C_p^0 = 357.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [82]		
O₁₂Pr₇ (s) Pr ₇ O ₁₂ (s)	Praseodymium Oxide	O₁₂Pr₇ (s) Pr ₇ O ₁₂ (s)
$\Delta H_{298}^0 = -6629.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 562.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 426.14 + 103.97 \cdot 10^{-3} \cdot T - 30.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1184 K) [4]		
O₁₂S₃Sb₂ (s) Sb ₂ (SO ₄) ₃ (s)	Antimony Sulfate	O₁₂S₃Sb₂ (s) Sb ₂ (SO ₄) ₃ (s)
$\Delta H_{298}^0 = -2402.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 291.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 220.08 + 185.77 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 835 K) [4]		
O₁₂Tb₇ (s) Tb ₇ O ₁₂ (s)	Terbium Oxide	O₁₂Tb₇ (s) Tb ₇ O ₁₂ (s)
$\Delta H_{298}^0 = -6653.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 611.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 415.86 + 137.28 \cdot 10^{-3} \cdot T - 4 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1385 K) [4]		
O₁₂W₄ (g) (WO ₃) ₄ (g)	Tungsten(VI) Oxide	O₁₂W₄ (g) (WO ₃) ₄ (g)
$\Delta H_{298}^0 = -2804.1 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 605.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 371.96 + 5.02 \cdot 10^{-3} \cdot T - 5.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2115 K) [4]		
$\lg(p, K) = -31.37 \cdot 10^3 \cdot T^{-1} - 5.28 \cdot \lg(T) + 33.27$ (1300 ... 1745 K) [4]		
{Reaction: evaporation of WO ₃ (s)}		

O₁₈Si₅Sr₆Zr (s)	Strontium Zirconium Silicate	O₁₈Si₅Sr₆Zr (s)
Sr ₆ ZrSi ₅ O ₁₈ (s)		Sr ₆ ZrSi ₅ O ₁₈ (s)

$$\Delta H_{298}^0 = -9667.9 \pm 8.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [121]}$$

$$S_{298}^0 = [600.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [124]}$$

$$C_p^0 = [551.24] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [271]}$$

O₂₀Tb₁₁ (s)	Terbium Oxide	O₂₀Tb₁₁ (s)
Tb ₁₁ O ₂₀ (s)		Tb ₁₁ O ₂₀ (s)

$$\Delta H_{298}^0 = -10617 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 880.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 740.42 + 140.57 \cdot 10^{-3} \cdot T - 12.48 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 811 K) [4]}$$

O₂₂Pr₁₂ (s)	Praseodymium Oxide alpha	O₂₂Pr₁₂ (s)
Pr ₁₂ O ₂₂ (s)		Pr ₁₂ O ₂₂ (s)

$$\Delta H_{298}^0 = -12829.1 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 959 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 761.96 + 384.09 \cdot 10^{-3} \cdot T - 10.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 760 K) [4]}$$

O₂₂Pr₁₂ (s)	Praseodymium Oxide alpha	O₂₂Pr₁₂ (s)
Pr ₁₂ O ₂₂ (s)		Pr ₁₂ O ₂₂ (s)

$$\Delta H_{760}^0 = -12403.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{760}^0 = 1801.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

O₂₂Pr₁₂ (s)	Praseodymium Oxide beta	O₂₂Pr₁₂ (s)
Pr ₁₂ O ₂₂ (s)		Pr ₁₂ O ₂₂ (s)

$$\Delta H_{760}^0 = -12384.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{760}^0 = 1826.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 598.43 + 595.16 \cdot 10^{-3} \cdot T - 3.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (760 ... 1100 K) [4]}$$

Os (s)	Osmium	Os (s)
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$$\text{mp} = 3300 \text{ K (3027 } ^\circ\text{C)}$$

$$\text{bp} = 5281 \text{ K (5008 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} \text{ [2]}$$

$$S_{298}^0 = 32.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 23.57 + 3.81 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 3300 K) [4]}$$

$$\lg(p, K) = -41.14 \cdot 10^3 \cdot T^{-1} - 0.27 \cdot \lg(T) + 8.98 \text{ (2500 ... 3300 K) [4]}$$

{Reaction: evaporation as Os(g)}

Os (s)	Osmium	Os (s)
$\Delta H_{3300}^0 = 91.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{3300}^0 = 100.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.14 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3300 K) [4]		
Os (l)	Osmium	Os (l)
$\Delta H_{3300}^0 = 123.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{3300}^0 = 110.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3300 K) [4]		
$\lg(p, K) = -38.92 \cdot 10^3 \cdot T^{-1} + 0.1 \cdot \lg(T) + 7.01$ (3300 ... 4000 K) [4]		
{Reaction: evaporation as Os(g)}		
Os (g)	Osmium	Os (g)
$\Delta H_{298}^0 = 788.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 192.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
OsP₂ (s)	Osmium Phosphide	OsP₂ (s)
$\Delta H_{298}^0 = -152.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
OsS₂ (s)	Osmium(IV) Sulfide	OsS₂ (s)
$\Delta H_{298}^0 = -147.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 54.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.53 + 11.84 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1391 K) [4]		
OsSe₂ (s)	Osmium(IV) Selenide	OsSe₂ (s)
$\Delta H_{298}^0 = -120.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 81.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 73.64 + 11.09 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1374 K) [4]		
OsTe₂ (s)	Osmium(IV) Telluride	OsTe₂ (s)
$\Delta H_{298}^0 = [-79.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

P (s)	Phosphorus black	P (s)
mp = 317 K (44 °C)		
$\Delta H_{298}^0 = -12.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 22.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
P (s)	Phosphorus red, IV	P (s)
$\Delta H_{298}^0 = -12.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 23.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
P (s)	Phosphorus red	P (s)
		bp = 703 K (430 °C)
$\Delta H_{298}^0 = -17.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 22.9 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 16.74 + 14.9 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 703 K) [4]		
$\lg(p, K) = -7.16 \cdot 10^3 \cdot T^{-1} - 2.78 \cdot \lg(T) + 18.09$ (400 ... 703 K) [4]		
{Reaction: evaporation as $\text{P}_4(\text{g})$ }		
P (s)	Phosphorus white	P (s)
mp = 317 K (44 °C)		bp = 552 K (279 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 13.9 + 33.13 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 317 K) [4]		
$\lg(p, K) = -3.53 \cdot 10^3 \cdot T^{-1} - 3.43 \cdot \lg(T) + 16.02$ (298 ... 317 K) [4]		
{Reaction: evaporation as $\text{P}_4(\text{g})$ }		
P (s)	Phosphorus white	P (s)
$\Delta H_{317}^0 = 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{317}^0 = 42.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

P (l)	Phosphorus	P (l)
$\Delta H_{317}^0 = 1.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{317}^0 = 44.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 26.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (317 K) [4]		
$\lg(p, K) = -3.45 \cdot 10^3 \cdot T^{-1} - 3.86 \cdot \lg(T) + 16.84$ (317 ... 552 K) [4]		
{Reaction: evaporation as P ₄ (g)}		
P (l)	Phosphorus	P (l)
$\Delta H_{298}^0 = 0.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 43 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.33 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (317 K) [4]		
P (g)	Phosphorus	P (g)
$\Delta H_{298}^0 = 333.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 163.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.67 + 0.17 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
PPd₃ (s)	Palladium Phosphide	PPd₃ (s)
Pd ₃ P (s)		Pd ₃ P (s)
$\Delta H_{298}^0 = -198 \pm 3 \text{ kJ}\cdot\text{mol}^{-1}$ [238]		
PS (g)	Phosphorus Sulfide	PS (g)
$\Delta H_{298}^0 = 138.6 \pm 41.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 234.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.03 + 0.5 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [3]		
PSi (s)	Silicon Phosphide	PSi (s)
SiP (s)		SiP (s)
mp = 1444 K (1171 °C)		
$\Delta H_{298}^0 = -61.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 32.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.89 + 10.88 \cdot 10^{-3} \cdot T - 0.57 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1450 K) [4]		
PTh (s)	Thorium Phosphide	PTh (s)
ThP (s)		ThP (s)
$\Delta H_{298}^0 = -348.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 71.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 54.1 + 5.44 \cdot 10^{-3} \cdot T - 0.86 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

PTh (g)	Thorium Phosphide	PTh (g)
ThP (g)		ThP (g)

$$\Delta H_{298}^0 = 536 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 267.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.37 + 0.05 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2023 \text{ K}) [4]$$

PU (s)	Uranium Phosphide	PU (s)
UP (s)		UP (s)

$$\text{mp} = 2883 \text{ K} (2610 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -268 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.38 - 5.77 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} + 8.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

P₂ (g)	Phosphorus	P₂ (g)
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$$\Delta H_{298}^0 = 144.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 218.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 36.3 + 0.8 \cdot 10^{-3} \cdot T - 0.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2023 \text{ K}) [4]$$

P₂U (s)	Uranium Phosphide	P₂U (s)
UP ₂ (s)		UP ₂ (s)

$$\Delta H_{298}^0 = -305 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 101.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 70.92 + 30.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

P₂Zn (s)	Zinc Phosphide	P₂Zn (s)
ZnP ₂ (s)		ZnP ₂ (s)

$$\Delta H_{298}^0 = -118.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 71.25 + 16.74 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1103 \text{ K}) [4]$$

P₂Zn₃ (s)	Zinc Phosphide	P₂Zn₃ (s)
Zn ₃ P ₂ (s)		Zn ₃ P ₂ (s)

$$\Delta H_{298}^0 = -176.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 174.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 126.2 + 26.07 \cdot 10^{-3} \cdot T - 1.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1123 \text{ K}) [4]$$

P₄ (g)	Phosphorus	P₄ (g)
$\Delta H_{298}^0 = 59.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 280 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 81.84 + 0.68 \cdot 10^{-3} \cdot T - 1.34 \cdot 10^{-6} \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
P₄S₃ (s)	Phosphorus Sulfide	P₄S₃ (s)
mp = 446 K (173 °C)		bp = 680 K (407 °C)
$\Delta H_{298}^0 = -224.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 200.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 146.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
P₄S₃ (l)	Phosphorus Sulfide	P₄S₃ (l)
$\Delta H_{298}^0 = -220.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 207.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 184.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
P₄S₃ (g)	Phosphorus Sulfide	P₄S₃ (g)
$\Delta H_{298}^0 = -149.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 319.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 154.81 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
P₄S₅ (s)	Phosphorus Sulfide	P₄S₅ (s)
$\Delta H_{298}^0 = -304.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 252.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 211.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
P₄S₆ (s)	Phosphorus Sulfide	P₄S₆ (s)
mp = 503 K (230 °C)		
$\Delta H_{298}^0 = -242.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 281.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 158.83 + 216.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 503 K) [4]		
P₄S₆ (s)	Phosphorus Sulfide	P₄S₆ (s)
$\Delta H_{503}^0 = -192.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{503}^0 = 409 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

P₄S₆ (l)	Phosphorus Sulfide	P₄S₆ (l)
$\Delta H_{503}^0 = -162.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{503}^0 = 467.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 334.72 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (503 K) [4]		
P₄S₇ (s)	Phosphorus Sulfide	P₄S₇ (s)
mp = 581 K (308 °C)		
$\Delta H_{298}^0 = -253.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 307.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 187.44 + 184.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 581 K) [4]		
P₄S₇ (s)	Phosphorus Sulfide	P₄S₇ (s)
$\Delta H_{581}^0 = -177.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{581}^0 = 484.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
P₄S₇ (l)	Phosphorus Sulfide	P₄S₇ (l)
$\Delta H_{581}^0 = -141 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{581}^0 = 547.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 368.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (581 K) [4]		
P₄S₁₀ (s)	Phosphorus(V) Sulfide	P₄S₁₀ (s)
mp = 560 K (287 °C)		
$\Delta H_{298}^0 = -397.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 381.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 212.3 + 280.58 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 560 K) [4]		
$\lg(p, K) = -7.75 \cdot 10^3 \cdot T^{-1} - 2 \cdot \lg(T) + 16.94$ (400 ... 560 K) [4]		
{Reaction: evaporation as P ₄ O ₁₀ (g)}		
P₄S₁₀ (s)	Phosphorus(V) Sulfide	P₄S₁₀ (s)
$\Delta H_{560}^0 = -310.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{560}^0 = 589 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
P₄S₁₀ (l)	Phosphorus(V) Sulfide	P₄S₁₀ (l)
$\Delta H_{560}^0 = -269.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{560}^0 = 662.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 418.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (560 K) [4]		

P₄Th₃ (s) Th ₃ P ₄ (s)	Thorium Phosphide	P₄Th₃ (s) Th ₃ P ₄ (s)
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$$\Delta H_{298}^0 = -1142 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 222 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 191.21 + 14.81 \cdot 10^{-3} \cdot T - 2.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1860 \text{ K}) [4]$$

P₄U₃ (s) U ₃ P ₄ (s)	Uranium Phosphide	P₄U₃ (s) U ₃ P ₄ (s)
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$$\Delta H_{298}^0 = -837 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 258.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 155.27 + 65.86 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

P₅S₃ (g)	Phosphorus Sulfide	P₅S₃ (g)
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$$\Delta H_{298}^0 = -151 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 319.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 154.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Pa (s)	Protactinium alpha	Pa (s)
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$$\text{mp} = 1845 \text{ K} (1572 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 51.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Pa (s)	Protactinium alpha	Pa (s)
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$$\Delta H_{1443}^0 = 39.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1443}^0 = 103.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 41.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1443 \text{ K}) [2]$$

Pa (s)	Protactinium beta	Pa (s)
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$$\Delta H_{1443}^0 = 46.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1443}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 39.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1443 \text{ K}) [2]$$

Pa (s)	Protactinium beta	Pa (s)
$\Delta H_{1845}^0 = 62.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1845}^0 = 118.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1845 K) [2]		
Pa (l)	Protactinium	Pa (l)
$\Delta H_{1845}^0 = 74.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1845}^0 = 124.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1845 K) [2]		
Pa (g)	Protactinium	Pa (g)
$\Delta H_{298}^0 = 606.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 198 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Pb (s)	Lead	Pb (s)
mp = 601 K (328 °C)		bp = 2020 K (1747 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 64.8 \pm 0.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.22 + 8.71 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 601 K) [4]		
Pb (s)	Lead	Pb (s)
$\Delta H_{601}^0 = 8.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{601}^0 = 84.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Pb (l)	Lead	Pb (l)
$\Delta H_{601}^0 = 13.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{601}^0 = 92.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.11 - 9.74 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} + 3.24 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (601 ... 2020 K) [4]		
$\lg(p, K) = -10.03 \cdot 10^3 \cdot T^{-1} - 0.92 \cdot \lg(T) + 8.01$ (700 ... 2020 K) [4]		
{Reaction: evaporation as Pb(g)}		
Pb (l)	Lead	Pb (l)
$\Delta H_{298}^0 = 4.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 71.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.11 - 9.74 \cdot 10^{-3} \cdot T - 0.28 \cdot 10^6 \cdot T^{-2} + 3.24 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (601 ... 2020 K) [4]		

Pb (g)	Lead	Pb (g)
$\Delta H_{298}^0 = 195.2 \pm 0.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 175.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 17.97 + 2.8 \cdot 10^{-3} \cdot T + 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2020 K) [4]		
PbS (s)	Lead(II) Sulfide	PbS (s)
mp = 1387 K (1114 °C)		bp = 1587 K (1314 °C)
$\Delta H_{298}^0 = -98.3 \pm 2.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 91.3 \pm 1.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 46.74 + 9.41 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1387 K) [4]		
PbS (s)	Lead(II) Sulfide	PbS (s)
$\Delta H_{1387}^0 = -38.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1387}^0 = 173.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
PbS (l)	Lead(II) Sulfide	PbS (l)
$\Delta H_{1387}^0 = -20 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1387}^0 = 187 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 66.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1387 K) [4]		
PbS (l)	Lead(II) Sulfide	PbS (l)
$\Delta H_{298}^0 = -84.1 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 49.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
PbS (g)	Lead(II) Sulfide	PbS (g)
$\Delta H_{298}^0 = 131.8 \pm 6.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 251.4 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 37.32 + 0.38 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -12.48 \cdot 10^3 \cdot T^{-1} - 2.4 \cdot \lg(T) + 15.62$ (800 ... 1387 K) [4]		
{Reaction: evaporation of PbS(s)}		
PbSe (s)	Lead(II) Selenide	PbSe (s)
mp = 1350 K (1077 °C)		bp = 1600 K (1327 °C)
$\Delta H_{298}^0 = -100 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.24 + 10 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1350 K) [4]		
$\lg(p, K) = -12.3 \cdot 10^3 \cdot T^{-1} - 2.49 \cdot \lg(T) + 15.97$ (700 ... 1350 K) [4]		
{Reaction: evaporation as PbSe(g)}		

PbSe (s)	Lead(II) Selenide	PbSe (s)
$\Delta H_{1350}^0 = -41.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1350}^0 = 184.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
PbSe (l)	Lead(II) Selenide	PbSe (l)
$\Delta H_{1350}^0 = 7.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1350 K) [4]		$S_{1350}^0 = 220.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
PbSe (g)	Lead(II) Selenide	PbSe (g)
$\Delta H_{298}^0 = 126.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 37.41 - 0.11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 263.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
PbTe (s)	Lead(II) Telluride	PbTe (s)
mp = 1197 K (924 °C) $\Delta H_{298}^0 = -68.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 47.2 + 11.26 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1197 K) [4] $\lg(p,K) = -12.12 \cdot 10^3 \cdot T^{-1} - 2.61 \cdot \lg(T) + 16.21$ (700 ... 1197 K) [4] {Reaction: evaporation as PbTe(g)}		bp = 1620 K (1347 °C) $S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
PbTe (s)	Lead(II) Telluride	PbTe (s)
$\Delta H_{1197}^0 = -18.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1197}^0 = 185.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
PbTe (l)	Lead(II) Telluride	PbTe (l)
$\Delta H_{1197}^0 = 11.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1197 K) [4]		$S_{1197}^0 = 210.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
PbTe (g)	Lead(II) Telluride	PbTe (g)
$\Delta H_{298}^0 = 155.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 37.41 - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 271.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Pb₂ (g)	Lead	Pb₂ (g)
$\Delta H_{298}^0 = 332.6 \pm 19.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 281.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 36.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Pb₂S₂ (g) (PbS) ₂ (g)	Lead(II) Sulfide	Pb₂S₂ (g) (PbS) ₂ (g)
$\Delta H_{298}^0 = 77.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 350.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 83.09 + 0.01 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -15.14 \cdot 10^3 \cdot T^{-1} - 3.86 \cdot \lg(T) + 20.61$ (900 ... 1387 K) [4]		
{Reaction: evaporation of PbS(s)}		
Pb₂Se₂ (g) (PbSe) ₂ (g)	Lead(II) Selenide	Pb₂Se₂ (g) (PbSe) ₂ (g)
$\Delta H_{298}^0 = 66.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [367.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pd (s)	Palladium	Pd (s)
mp = 1825 K (1552 °C)		bp = 3234 K (2961 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 37.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 23.71 + 6.18 \cdot 10^{-3} \cdot T + 0.06 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1825 K) [4]		
$\lg(p,K) = -19.62 \cdot 10^3 \cdot T^{-1} - 0.62 \cdot \lg(T) + 8.4$ (1300 ... 1825 K) [4]		
{Reaction: evaporation as Pd(g)}		
Pd (s)	Palladium	Pd (s)
$\Delta H_{1825}^0 = 46.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1825}^0 = 90.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1825 K) [4]		
Pd (l)	Palladium	Pd (l)
$\Delta H_{1825}^0 = 63.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1825}^0 = 100.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1825 K) [4]		
$\lg(p,K) = -18.05 \cdot 10^3 \cdot T^{-1} + 0.28 \cdot \lg(T) + 4.6$ (1825 ... 3234 K) [4]		
{Reaction: evaporation as Pd(g)}		

Pd (g)	Palladium	Pd (g)
$\Delta H_{298}^0 = 376.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 167.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.33 - 18.02 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} + 11.23 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1825 K) [4]		
PdS (s)	Palladium(II) Sulfide	PdS (s)
$\Delta H_{298}^0 = -70.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 56.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.71 + 17.2 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]		
PdS₂ (s)	Palladium(IV) Sulfide	PdS₂ (s)
mp = 1245 K (972 °C)		
$\Delta H_{298}^0 = -78.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 87.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.58 + 15.77 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 901 K) [4]		
PdSe_{0.889} (s)	Palladium Selenide	PdSe_{0.889} (s)
$\Delta H_{298}^0 = [-48.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [69.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PdSe (s)	Palladium(II) Selenide	PdSe (s)
$\Delta H_{298}^0 = [-50.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [73.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PdSe₂ (s)	Palladium(IV) Selenide	PdSe₂ (s)
$\Delta H_{298}^0 = [-58.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [123.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PdSi (s)	Palladium Silicide	PdSi (s)
$\Delta H_{298}^0 = -52.4 \text{ kJ}\cdot\text{mol}^{-1}$ [181]		$S_{298}^0 = 46.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [181]
PdTe (s)	Palladium(II) Telluride	PdTe (s)
mp = 993 K (720 °C)		
$\Delta H_{298}^0 = -37.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 89.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.45 + 12.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 993 K) [4]		

PdTe₂ (s)	Palladium(IV) Telluride	PdTe₂ (s)
mp = 1013 K (740 °C)		
$\Delta H_{298}^0 = -63.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 126.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 70.63 + 20.08 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1013 K) [4]		
Pd₂Si (s)	Palladium Silicide	Pd₂Si (s)
$\Delta H_{298}^0 = -129 \text{ kJ}\cdot\text{mol}^{-1}$ [181]		$S_{298}^0 = 46.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [181]
Pd₃Si (s)	Palladium Silicide	Pd₃Si (s)
$\Delta H_{298}^0 = -154 \text{ kJ}\cdot\text{mol}^{-1}$ [181]		$S_{298}^0 = 70 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [181]
Pd₄S (s)	Palladium Sulfide	Pd₄S (s)
mp = 1034 K (761 °C)		
$\Delta H_{298}^0 = -69 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 180.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 100.42 + 48.79 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1034 K) [4]		
Pd₄Se (s)	Palladium Selenide	Pd₄Se (s)
$\Delta H_{298}^0 = [-58.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 200.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 137.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [5]		
Pd₅Si (s)	Palladium Silicide	Pd₅Si (s)
$\Delta H_{298}^0 = -175.2 \text{ kJ}\cdot\text{mol}^{-1}$ [181]		$S_{298}^0 = 129 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [181]
PmS (s)	Promethium Sulfide	PmS (s)
$\Delta H_{298}^0 = [-451.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PmSe (s)	Promethium(II) Selenide	PmSe (s)
$\Delta H_{298}^0 = [-359.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

PmTe (s)	Promethium(II) Telluride	PmTe (s)
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pm₂S₃ (s)	Promethium(III) Sulfide	Pm₂S₃ (s)
$\Delta H_{298}^0 = [-1150.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [184.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pm₂Se₃ (s)	Promethium(III) Selenide	Pm₂Se₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [221.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pm₂Te₃ (s)	Promethium(III) Telluride	Pm₂Te₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [242.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pr (s)	Praseodymium alpha	Pr (s)
mp = 1204 K (931 °C)		bp = 3779 K (3506 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 73.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 15.15 + 24.56 \cdot 10^{-3} \cdot T + 0.56 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1068 K) [4]		
Pr (s)	Praseodymium alpha	Pr (s)
$\Delta H_{1068}^0 = 25.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1068}^0 = 115.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 41.86 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1068 K) [4]		
Pr (s)	Praseodymium beta	Pr (s)
$\Delta H_{1068}^0 = 29 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1068}^0 = 118 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1068 K) [4]		

Pr (s)	Praseodymium beta	Pr (s)
$\Delta H_{1204}^0 = 34.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1204}^0 = 122.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.45 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1204 K) [4]		
Pr (l)	Praseodymium	Pr (l)
$\Delta H_{1204}^0 = 41.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1204}^0 = 128.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 42.97 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1204 K) [4]		
$\lg(p,K) = -18.61 \cdot 10^3 \cdot T^{-1} - 1.82 \cdot \lg(T) + 11.44$ (1300 ... 2000 K) [4]		
{Reaction: evaporation as Pr(g)}		
Pr (g)	Praseodymium	Pr (g)
$\Delta H_{298}^0 = 355.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 189.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 19.65 + 12.48 \cdot 10^{-3} \cdot T - 0.17 \cdot 10^6 \cdot T^{-2} - 4.33 \cdot 10^{-6} \cdot T^2$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
PrS (s)	Praseodymium(II) Sulfide	PrS (s)
mp = 2500 K (2227 °C)		
$\Delta H_{298}^0 = -451.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 51.97 + 4.4 \cdot 10^{-3} \cdot T$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
PrS (g)	Praseodymium(II) Sulfide	PrS (g)
$\Delta H_{298}^0 = 143.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 262.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.13 + 0.15 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2}$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2000 K) [4]		
PrSe (s)	Praseodymium(II) Selenide	PrSe (s)
mp = 2370 K (2097 °C)		
$\Delta H_{298}^0 = [-359.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PrSe (g)	Praseodymium(II) Selenide	PrSe (g)
$\Delta H_{298}^0 = [194.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [272.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

PrTe (s)	Praseodymium(II) Telluride	PrTe (s)
mp = 2200 K (1927 °C)		
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PrTe (g)	Praseodymium(II) Telluride	PrTe (g)
$\Delta H_{298}^0 = [258.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [281.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Pr₂S₃ (s)	Praseodymium(III) Sulfide	Pr₂S₃ (s)
$\Delta H_{298}^0 = [-1150.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [198.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pr₂Se₃ (s)	Praseodymium(III) Selenide	Pr₂Se₃ (s)
$\Delta H_{298}^0 = [-941.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [238.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pr₂Te₃ (s)	Praseodymium(III) Telluride	Pr₂Te₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [263.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Pr₃S₄ (s)	Praseodymium Sulfide	Pr₃S₄ (s)
$\Delta H_{298}^0 = -1554.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 256.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 174.47 + 15.73 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Pt (s)	Platinum	Pt (s)
mp = 2042 K (1769 °C)		bp = 4096 K (3823 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 41.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 24.39 + 5.26 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2042 K) [4]		
$\lg(p,K) = -30.21 \cdot 10^3 \cdot T^{-1} - 1.51 \cdot \lg(T) + 13.07$ (1800 ... 2042 K) [4]		
{Reaction: evaporation as Pt(g)}		

Pt (s)	Platinum	Pt (s)
$\Delta H_{2042}^0 = 53.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2042}^0 = 97.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2042 K) [4]		
Pt (l)	Platinum	Pt (l)
$\Delta H_{2042}^0 = 72.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2042}^0 = 107.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.73 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2042 K) [4]		
$\lg(p,K) = -28.16 \cdot 10^3 \cdot T^{-1} - 0.6 \cdot \lg(T) + 9.06$ (2042 ... 4089 K) [4]		
{Reaction: evaporation as Pt(g)}		
Pt (g)	Platinum	Pt (g)
$\Delta H_{298}^0 = 564.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 192.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 25.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
PtS (s)	Platinum(II) Sulfide	PtS (s)
$\Delta H_{298}^0 = -81.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.71 + 17.2 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1518 K) [4]		
PtS₂ (s)	Platinum(IV) Sulfide	PtS₂ (s)
$\Delta H_{298}^0 = -109.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 68.58 + 15.77 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1005 K) [4]		
PtSe₂ (s)	Platinum(IV) Selenide	PtSe₂ (s)
$\Delta H_{298}^0 = [-79.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [102.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
PtTe (s)	Platinum(II) Telluride	PtTe (s)
$\Delta H_{298}^0 = [-41.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = 49.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [5]		

PtTe₂ (s)	Platinum(IV) Telluride	PtTe₂ (s)
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$$\Delta H_{298}^0 = [-58.6] \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$C_p^0 = 75.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [5]$$

$$S_{298}^0 = 121 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

Pt₅Se₄ (s)	Platinum Selenide	Pt₅Se₄ (s)
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$$\Delta H_{298}^0 = -241.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 188.28 + 78.45 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1481 \text{ K}) [4]$$

$$S_{298}^0 = 336.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Pu (s)	Plutonium alpha	Pu (s)
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$$\text{mp} = 913 \text{ K} (640 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 24.94 + 24.19 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 395 \text{ K}) [4]$$

$$\text{bp} = 3500 \text{ K} (3227 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 51.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Pu (s)	Plutonium alpha	Pu (s)
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$$\Delta H_{395}^0 = 3.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 34.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (395 \text{ K}) [4]$$

$$S_{395}^0 = 60.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Pu (s)	Plutonium beta	Pu (s)
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$$\Delta H_{395}^0 = 6.6 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 21.75 + 29.66 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (395 \dots 480 \text{ K}) [4]$$

$$S_{395}^0 = 69.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Pu (s)	Plutonium beta	Pu (s)
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$$\Delta H_{480}^0 = 9.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 35.98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (480 \text{ K}) [4]$$

$$S_{480}^0 = 76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Pu (s)	Plutonium gamma	Pu (s)
$\Delta H_{480}^0 = 10.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{480}^0 = 77.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 12.48 + 46.38 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (480 ... 588 K) [4]		
Pu (s)	Plutonium gamma	Pu (s)
$\Delta H_{588}^0 = 14.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{588}^0 = 84.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.75 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (588 K) [4]		
Pu (s)	Plutonium delta	Pu (s)
$\Delta H_{588}^0 = 14.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{588}^0 = 85.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (588 K) [4]		
Pu (s)	Plutonium delta	Pu (s)
$\Delta H_{753}^0 = 20.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{753}^0 = 95.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (753 K) [4]		
Pu (s)	Plutonium epsilon	Pu (s)
$\Delta H_{753}^0 = 22.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{753}^0 = 97.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (753 K) [4]		
Pu (s)	Plutonium epsilon	Pu (s)
$\Delta H_{913}^0 = 28.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{913}^0 = 104.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (913 K) [4]		

Pu (l)	Plutonium	Pu (l)
$\Delta H_{913}^0 = 31.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{913}^0 = 107.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (913 K) [4]		
Pu (g)	Plutonium	Pu (g)
$\Delta H_{298}^0 = 351.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 177.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 4.1 + 35.14 \cdot 10^{-3} \cdot T + 0.62 \cdot 10^6 \cdot T^{-2} - 6.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3500 K) [4]		
PuS (s)	Plutonium(II) Sulfide	PuS (s)
mp = 2623 K (2350 °C)		
$\Delta H_{298}^0 = -436.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 53.14 + 6.69 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Pu₂S₃ (s)	Plutonium(III) Sulfide	Pu₂S₃ (s)
mp = 2000 K (1727 °C)		
$\Delta H_{298}^0 = -983.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 127.61 + 16.74 \cdot 10^{-3} \cdot T - 3.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Rb (s)	Rubidium	Rb (s)
mp = 313 K (40 °C)		bp = 970 K (697 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 76.8 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 3.52 + 92.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 313 K) [4]		
Rb (s)	Rubidium	Rb (s)
$\Delta H_{313}^0 = 0.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{313}^0 = 78.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (313 K) [4]		
Rb (l)	Rubidium	Rb (l)
$\Delta H_{313}^0 = 2.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{313}^0 = 85.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.49 - 12.87 \cdot 10^{-3} \cdot T + 8.54 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (313 ... 970 K) [4]		
$\lg(p, K) = -4.28 \cdot 10^3 \cdot T^{-1} - 1.31 \cdot \lg(T) + 8.33$ (313 ... 970 K) [4]		
{Reaction: evaporation as Rb(g)}		

Pu (l)	Plutonium	Pu (l)
$\Delta H_{913}^0 = 31.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{913}^0 = 107.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (913 K) [4]		

Pu (g)	Plutonium	Pu (g)
$\Delta H_{298}^0 = 351.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 177.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 4.1 + 35.14 \cdot 10^{-3} \cdot T + 0.62 \cdot 10^6 \cdot T^{-2} - 6.77 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3500 K) [4]		

PuS (s)	Plutonium(II) Sulfide	PuS (s)
mp = 2623 K (2350 °C)		
$\Delta H_{298}^0 = -436.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 53.14 + 6.69 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Pu₂S₃ (s)	Plutonium(III) Sulfide	Pu₂S₃ (s)
mp = 2000 K (1727 °C)		
$\Delta H_{298}^0 = -983.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 192.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 127.61 + 16.74 \cdot 10^{-3} \cdot T - 3.77 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Rb (s)	Rubidium	Rb (s)
mp = 313 K (40 °C)		bp = 970 K (697 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 76.8 \pm 0.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 3.52 + 92.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 313 K) [4]		

Rb (s)	Rubidium	Rb (s)
$\Delta H_{313}^0 = 0.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{313}^0 = 78.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.44 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (313 K) [4]		

Rb (l)	Rubidium	Rb (l)
$\Delta H_{313}^0 = 2.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{313}^0 = 85.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.49 - 12.87 \cdot 10^{-3} \cdot T + 8.54 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (313 ... 970 K) [4]		
$\lg(p, K) = -4.28 \cdot 10^3 \cdot T^{-1} - 1.31 \cdot \lg(T) + 8.33$ (313 ... 970 K) [4]		
{Reaction: evaporation as Rb(g)}		

Rb (l)	Rubidium	Rb (l)
$\Delta H_{970}^0 = 23.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{970}^0 = 120.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 31.05 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (970 K) [4]		
Rb (g)	Rubidium	Rb (g)
$\Delta H_{970}^0 = 98.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{970}^0 = 194.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 20.82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (970 K) [4]		
Rb (l)	Rubidium	Rb (l)
$\Delta H_{298}^0 = 2.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 83.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 32.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Rb (g)	Rubidium	Rb (g)
$\Delta H_{298}^0 = 80.9 \pm 0.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 170.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Rb₂ (g)	Rubidium	Rb₂ (g)
$\Delta H_{298}^0 = 113.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 271.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Rb₂S (s)	Rubidium Sulfide	Rb₂S (s)
$\Delta H_{298}^0 = -361.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 133.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 77.4 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 700 K) [4]		
Rb₃P₇ (s)	Rubidium Phosphide	Rb₃P₇ (s)
$\Delta H_{298}^0 = -118 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [10]		$S_{298}^0 = 689 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [10]

Re (s)	Rhenium	Re (s)
mp = 3453 K (3180 °C)		bp = 5864 K (5591 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 36.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 23.75 + 5.41 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Re (s)	Rhenium	Re (s)
$\Delta H_{3453}^0 = 107 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{3453}^0 = 111.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3453 K) [2]		
Re (l)	Rhenium	Re (l)
$\Delta H_{3453}^0 = 140.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{3453}^0 = 121.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3453 ... 5800 K) [2]		
Re (g)	Rhenium	Re (g)
$\Delta H_{298}^0 = 774.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 188.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
ReS₂ (s)	Rhenium(IV) Sulfide	ReS₂ (s)
$\Delta H_{298}^0 = -191.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 57.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.58 + 15.77 \cdot 10^{-3} \cdot T - 0.66 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1637 K) [4]		
ReS₃ (s)	Rhenium(VI) Sulfide	ReS₃ (s)
$\Delta H_{298}^0 = [-208.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [75.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ReSe₂ (s)	Rhenium(IV) Selenide	ReSe₂ (s)
$\Delta H_{298}^0 = [-142.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [85.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

ReSi (s)	Rhenium Silicide	ReSi (s)
mp = 2153 K (1880 °C)		
$\Delta H_{298}^0 = -52.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 55.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 52.59 + 9.62 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
ReSi₂ (s)	Rhenium Silicide	ReSi₂ (s)
mp = 2253 K (1980 °C)		
$\Delta H_{298}^0 = -90.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 74.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 67.78 + 11.05 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
ReTe₂ (s)	Rhenium(IV) Telluride	ReTe₂ (s)
mp = 1208 K (935 °C)		
$\Delta H_{298}^0 = [-100.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Re₂S₇ (s)	Rhenium(VII) Sulfide	Re₂S₇ (s)
$\Delta H_{298}^0 = -451.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 184.1 + 50.21 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 918 K) [4]		
Re₂Se₇ (s)	Rhenium(VII) Selenide	Re₂Se₇ (s)
$\Delta H_{298}^0 = [-359.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [255.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Re₂Te₅ (s)	Rhenium Telluride	Re₂Te₅ (s)
$\Delta H_{298}^0 = -94.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 251.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 175.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Re₂Th (s)	Thorium Rhenium	Re₂Th (s)
ThRe ₂ (s)		ThRe ₂ (s)
$\Delta H_{298}^0 = -174.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 123.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

Re₂Y (s)	Yttrium Rhenium	Re₂Y (s)
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$$\Delta H_{298}^0 = -135.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 110 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 76.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

Re₅Si₃ (s)	Rhenium Silicide	Re₅Si₃ (s)
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$$\text{mp} = 2233 \text{ K} (1960 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -157.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 255.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 190.79 + 45.19 \cdot 10^{-3} \cdot T - 1.41 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1500 \text{ K}) [4]$$

Rh (s)	Rhodium	Rh (s)
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$$\text{mp} = 2233 \text{ K} (1960 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$\text{bp} = 3966 \text{ K} (3693 \text{ }^\circ\text{C})$$

$$S_{298}^0 = 31.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 25.38 + 6.65 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2233 \text{ K}) [4]$$

$$\lg(p, K) = -29.45 \cdot 10^3 \cdot T^{-1} - 1.34 \cdot \lg(T) + 12.49 (1800 \dots 2233 \text{ K}) [4]$$

{Reaction: evaporation as Rh(g)}

Rh (s)	Rhodium	Rh (s)
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$$\Delta H_{2233}^0 = 64.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{2233}^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 40.19 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2233 \text{ K}) [4]$$

Rh (l)	Rhodium	Rh (l)
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$$\Delta H_{2233}^0 = 86.4 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{2233}^0 = 103.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (2233 \text{ K}) [4]$$

$$\lg(p, K) = -28.66 \cdot 10^3 \cdot T^{-1} - 1.68 \cdot \lg(T) + 13.27 (2233 \dots 3966 \text{ K}) [4]$$

{Reaction: evaporation as Rh(g)}

Rh (g)	Rhodium	Rh (g)
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$$\Delta H_{298}^0 = 553.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 185.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

RhS_{0.889} (s)	Rhodium Sulfide	RhS_{0.889} (s)
mp = 1400 K (1127 °C) $\Delta H_{298}^0 = -83.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [55.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
RhS_{1.875} (s)	Rhodium Sulfide	RhS_{1.875} (s)
$\Delta H_{298}^0 = [-146.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [62.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
RhS_{2.3} (s)	Rhodium Sulfide	RhS_{2.3} (s)
$\Delta H_{298}^0 = -166.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 74.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
RhSe₂ (s)	Rhodium(IV) Selenide	RhSe₂ (s)
$\Delta H_{298}^0 = [-108.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [98.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
RhTe (s)	Rhodium(II) Telluride	RhTe (s)
$\Delta H_{298}^0 = [-46] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [83.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
RhTe₂ (s)	Rhodium(IV) Telluride	RhTe₂ (s)
$\Delta H_{298}^0 = [-79.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [123.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Rh₂S₃ (s)	Rhodium(III) Sulfide	Rh₂S₃ (s)
$\Delta H_{298}^0 = -262.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 110.25 + 32.97 \cdot 10^{-3} \cdot T - 0.96 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1407 K) [4]		$S_{298}^0 = 125.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Rh₃S₄ (s)	Rhodium Sulfide	Rh₃S₄ (s)
$\Delta H_{298}^0 = -357.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 145.6 + 60.25 \cdot 10^{-3} \cdot T - 1.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1456 K) [4]		$S_{298}^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Rh₃U (s)	Uranium Rhodium	Rh₃U (s)
mp = 1973 K (1700 °C)		
$\Delta H_{298}^0 = -259.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 148.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 102.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Rn (g)	Radon	Rn (g)
mp = 202 K (-71 °C)		bp = 211 K (-62 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 176.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Ru (s)	Ruthenium	Ru (s)
mp = 2523 K (2250 °C)		bp = 4424 K (4151 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 28.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.23 + 4.13 \cdot 10^{-3} \cdot T + 0.04 \cdot 10^{-6} \cdot T^{-2} + 1.61 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2523 K) [4]		
$\lg(p, K) = -34.95 \cdot 10^3 \cdot T^{-1} - 1.41 \cdot \lg(T) + 13.26$ (2000 ... 2523 K) [4]		
{Reaction: evaporation as Ru(g)}		
Ru (s)	Ruthenium	Ru (s)
$\Delta H_{2523}^0 = 71.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2523}^0 = 90.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2523 K) [4]		
Ru (l)	Ruthenium	Ru (l)
$\Delta H_{2523}^0 = 95.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2523}^0 = 100.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2523 K) [4]		
$\lg(p, K) = -33.61 \cdot 10^3 \cdot T^{-1} - 1.38 \cdot \lg(T) + 12.63$ (2523 ... 4424 K) [4]		
{Reaction: evaporation as Ru(g)}		
Ru (g)	Ruthenium	Ru (g)
$\Delta H_{298}^0 = 651.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 186.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.52 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

RuS₂ (s)	Ruthenium(IV) Sulfide	RuS₂ (s)
$\Delta H_{298}^0 = -218 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 46.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.53 + 11.84 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1731 K) [4]		
RuSe₂ (s)	Ruthenium(IV) Selenide	RuSe₂ (s)
$\Delta H_{298}^0 = -170.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.64 + 11.09 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1634 K) [4]		
RuTe₂ (s)	Ruthenium(IV) Telluride	RuTe₂ (s)
$\Delta H_{298}^0 = [-108.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ru₃U (s)	Uranium Ruthenium	Ru₃U (s)
$\Delta H_{298}^0 = -217.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 99.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
S (s)	Sulfur rhombic	S (s)
mp = 388 K (115 °C)		bp = 717 K (444 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 32.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 14.8 + 24.08 \cdot 10^{-3} \cdot T + 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 368 K) [4]		
S (s)	Sulfur rhombic	S (s)
$\Delta H_{368}^0 = 1.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{368}^0 = 37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S (s)	Sulfur monoclinic	S (s)
$\Delta H_{368}^0 = 2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{368}^0 = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 17.55 + 19.61 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (368 ... 388 K) [4]		

RuS₂ (s)	Ruthenium(IV) Sulfide	RuS₂ (s)
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$\Delta H_{298}^0 = -218 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 46.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 68.53 + 11.84 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1731 K) [4]		

RuSe₂ (s)	Ruthenium(IV) Selenide	RuSe₂ (s)
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$\Delta H_{298}^0 = -170.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 74.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 73.64 + 11.09 \cdot 10^{-3} \cdot T - 0.42 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1634 K) [4]		

RuTe₂ (s)	Ruthenium(IV) Telluride	RuTe₂ (s)
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$\Delta H_{298}^0 = [-108.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
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Ru₃U (s)	Uranium Ruthenium	Ru₃U (s)
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$\Delta H_{298}^0 = -217.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 108.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 99.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

S (s)	Sulfur rhombic	S (s)
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mp = 388 K (115 °C)		bp = 717 K (444 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 32.1 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 14.8 + 24.08 \cdot 10^{-3} \cdot T + 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 368 K) [4]		

S (s)	Sulfur rhombic	S (s)
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$\Delta H_{368}^0 = 1.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{368}^0 = 37 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
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S (s)	Sulfur monoclinic	S (s)
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$\Delta H_{368}^0 = 2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{368}^0 = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 17.55 + 19.61 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (368 ... 388 K) [4]		

S (s)	Sulfur monoclinic	S (s)
$\Delta H_{388}^0 = 2.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{388}^0 = 39.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S (l)	Sulfur	S (l)
$\Delta H_{388}^0 = 4.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 45.03 - 16.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (388 ... 717 K) [4]		$S_{388}^0 = 43.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S (l)	Sulfur	S (l)
$\Delta H_{298}^0 = 1.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 45.03 - 16.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (388 ... 717 K) [4]		$S_{298}^0 = 36.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
S (g)	Sulfur	S (g)
$\Delta H_{298}^0 = 277 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 24.23 - 4.11 \cdot 10^{-3} \cdot T + 0.06 \cdot 10^6 \cdot T^{-2} + 1.34 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 167.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
SSb (g) SbS (g)	Antimony(II) Sulfide	SSb (g) SbS (g)
$\Delta H_{298}^0 = -185.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 34.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 249.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
SSc (s) ScS (s)	Scandium(II) Sulfide	SSc (s) ScS (s)
$\Delta H_{298}^0 = [-451.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [56.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SSc (g) ScS (g)	Scandium(II) Sulfide	SSc (g) ScS (g)
$\Delta H_{298}^0 = 181.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 36.93 + 0.25 \cdot 10^{-3} \cdot T - 0.31 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 236.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

SSe (g)	Selenium Sulfide	SSe (g)
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$$\Delta H_{298}^0 = [142.3] \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = [241.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

SSi (s)	Silicon(II) Sulfide	SSi (s)
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SiS (s)

SiS (s)

$$\Delta H_{298}^0 = -160.7 \text{ kJ}\cdot\text{mol}^{-1} [5]$$

$$S_{298}^0 = [48.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [5]$$

SSi (g)	Silicon(II) Sulfide	SSi (g)
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SiS (g)

SiS (g)

$$\Delta H_{298}^0 = 116.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 223.8 \pm 2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 35.9 + 0.92 \cdot 10^{-3} \cdot T - 0.35 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SSm (s)	Samarium(II) Sulfide	SSm (s)
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SmS (s)

SmS (s)

mp = 2213 K (1940 °C)

$$\Delta H_{298}^0 = -430.9 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 81.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 59.33 + 3.18 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SSm (g)	Samarium(II) Sulfide	SSm (g)
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SmS (g)

SmS (g)

$$\Delta H_{298}^0 = 92.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 267.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.13 + 0.15 \cdot 10^{-3} \cdot T - 0.26 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SSn (s)	Tin(II) Sulfide	SSn (s)
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SnS (s)

alpha

SnS (s)

mp = 1153 K (880 °C)

bp = 1477 K (1204 °C)

$$\Delta H_{298}^0 = -107.9 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 35.69 + 31.3 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 875 \text{ K}) [4]$$

$$\lg(p, K) = -11.89 \cdot 10^3 \cdot T^{-1} - 2.75 \cdot \lg(T) + 17.11 (700 \dots 875 \text{ K}) [4]$$

{Reaction: evaporation as SnS(g)}

SSn (s) SnS (s)	Tin(II) Sulfide alpha	SSn (s) SnS (s)
$\Delta H_{875}^0 = -77.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{875}^0 = 131.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
SSn (s) SnS (s)	Tin(II) Sulfide beta	SSn (s) SnS (s)
$\Delta H_{875}^0 = -76.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{875}^0 = 132.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 40.92 + 15.65 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (875 ... 1153 K) [4]		
$\lg(p,K) = -11.71 \cdot 10^3 \cdot T^{-1} - 2.37 \cdot \lg(T) + 15.78$ (875 ... 1153 K) [4]		
{Reaction: evaporation as SnS(g)}		
SSn (s) SnS (s)	Tin(II) Sulfide beta	SSn (s) SnS (s)
$\Delta H_{1153}^0 = -61.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1153}^0 = 148 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
SSn (l) SnS (l)	Tin(II) Sulfide	SSn (l) SnS (l)
$\Delta H_{1153}^0 = -29.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1153}^0 = 175.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 74.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1153 K) [4]		
$\lg(p,K) = -11.14 \cdot 10^3 \cdot T^{-1} - 4.53 \cdot \lg(T) + 21.9$ (1153 ... 1477 K) [4]		
{Reaction: evaporation as SnS(g)}		
SSn (g) SnS (g)	Tin(II) Sulfide	SSn (g) SnS (g)
$\Delta H_{298}^0 = 109 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 242.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.94 + 0.33 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
SSr (s) SrS (s)	Strontium Sulfide	SSr (s) SrS (s)
mp = 2275 K (2002 °C)		
$\Delta H_{298}^0 = -468.6 \pm 17 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 68.4 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 54.31 + 5.27 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

SSr (g) SrS (g)	Strontium Sulfide	SSr (g) SrS (g)
$\Delta H_{298}^0 = 108.2 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 243.1 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.59 + 13.18 \cdot 10^{-3} \cdot T + 0.82 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
STa (g) TaS (g)	Tantalum(II) Sulfide	STa (g) TaS (g)
$\Delta H_{298}^0 = 514.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 258.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 33.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
STb (s) TbS (s)	Terbium(II) Sulfide	STb (s) TbS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
STb (g) TbS (g)	Terbium(II) Sulfide	STb (g) TbS (g)
$\Delta H_{298}^0 = 157.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 267.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
STe (g) TeS (g)	Tellurium(II) Sulfide	STe (g) TeS (g)
$\Delta H_{298}^0 = [159] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [247.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
STh (s) ThS (s)	Thorium(II) Sulfide	STh (s) ThS (s)
mp = 2600 K (2327 °C)		
$\Delta H_{298}^0 = -395.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 50.12 + 5.46 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		

STi (s) TiS (s)	Titanium(II) Sulfide	STi (s) TiS (s)
mp = 2053 K (1780 °C)		
$\Delta H_{298}^0 = -272 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 56.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 45.9 + 7.36 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2053 K) [4]		
STi (g) TiS (g)	Titanium(II) Sulfide	STi (g) TiS (g)
$\Delta H_{298}^0 = 330.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 246.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37 + 0.22 \cdot 10^{-3} \cdot T - 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
STi₂ (s) Ti ₂ S (s)	Titanium Sulfide	STi₂ (s) Ti ₂ S (s)
$\Delta H_{298}^0 = [-280.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
STi (s) TiS (s)	Thallium(II) Sulfide	STi (s) TiS (s)
$\Delta H_{298}^0 = [-62.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [89.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
STi₂ (s) Ti ₂ S (s)	Thallium(I) Sulfide	STi₂ (s) Ti ₂ S (s)
mp = 730 K (457 °C)		bp = 1515 K (1242 °C)
$\Delta H_{298}^0 = -95 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 159 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 71.55 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 730 K) [4]		
$\lg(p, K) = -11.06 \cdot 10^3 \cdot T^{-1} - 3.95 \cdot \lg(T) + 20.81$ (600 ... 730 K) [4]		
{Reaction: evaporation as Ti ₂ S(g)}		
STi₂ (s) Ti ₂ S (s)	Thallium(I) Sulfide	STi₂ (s) Ti ₂ S (s)
$\Delta H_{730}^0 = -57.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{730}^0 = 235.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

STl₂ (l) Tl ₂ S (l)	Thallium(I) Sulfide	STl₂ (l) Tl ₂ S (l)
$\Delta H_{730}^0 = -34.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{730}^0 = 267.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 99.58 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (730 K) [4]		
$\lg(p, K) = -10.18 \cdot 10^3 \cdot T^{-1} - 4.98 \cdot \lg(T) + 22.56$ (730 ... 1515 K) [4]		
{Reaction: evaporation as Tl ₂ S(g)}		
STl₂ (g) Tl ₂ S (g)	Thallium(I) Sulfide	STl₂ (g) Tl ₂ S (g)
$\Delta H_{298}^0 = 105 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 332.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 58.16 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
STm (s) TmS (s)	Thulium(II) Sulfide	STm (s) TmS (s)
$\Delta H_{298}^0 = [-460.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
STm (g) TmS (g)	Thulium(II) Sulfide	STm (g) TmS (g)
$\Delta H_{298}^0 = [161.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [258.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SU (s) US (s)	Uranium(II) Sulfide	SU (s) US (s)
mp = 2735 K (2462 °C)		
$\Delta H_{298}^0 = -318 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 52.84 + 6.5 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
SU (g) US (g)	Uranium(II) Sulfide	SU (g) US (g)
$\Delta H_{298}^0 = 305 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 264 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 33.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		

SV (g) VS (g)	Vanadium(II) Sulfide	SV (g) VS (g)
$\Delta H_{298}^0 = 345.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [248.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [36.86] + [0.29] \cdot 10^{-3} \cdot T + [-0.33] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
SY (s) YS (s)	Yttrium(II) Sulfide	SY (s) YS (s)
$\Delta H_{298}^0 = -451.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [66.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SY (g) YS (g)	Yttrium(II) Sulfide	SY (g) YS (g)
$\Delta H_{298}^0 = 172.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [244.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.09] + [0.17] \cdot 10^{-3} \cdot T + [-0.27] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
SYb (s) YbS (s)	Ytterbium(II) Sulfide	SYb (s) YbS (s)
$\Delta H_{298}^0 = [-451.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [69] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SYb (g) YbS (g)	Ytterbium(II) Sulfide	SYb (g) YbS (g)
$\Delta H_{298}^0 = [263.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [257.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.28] + [0.07] \cdot 10^{-3} \cdot T + [-0.19] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
SZn (s) ZnS (s)	Zinc Sulfide beta, Sphalerite	SZn (s) ZnS (s)
mp = 1995 K (1722 °C)		
$\Delta H_{298}^0 = -205 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 57.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 49.25 + 5.27 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1293 K) [4]		
SZn (s) ZnS (s)	Zinc Sulfide beta, Sphalerite	SZn (s) ZnS (s)
$\Delta H_{1293}^0 = -153.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1293}^0 = 132.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

SZn (s) ZnS (s)	Zinc Sulfide alpha, Wurtzite	SZn (s) ZnS (s)
$\Delta H_{1293}^0 = -139.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1293}^0 = 143 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 49.46 + 4.44 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1293 ... 1907 K) [4]		
SZn (g) ZnS (g)	Zinc Sulfide	SZn (g) ZnS (g)
$\Delta H_{298}^0 = 202.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 237.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.28 + 0.07 \cdot 10^{-3} \cdot T - 0.27 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
SZr (g) ZrS (g)	Zirconium(II) Sulfide	SZr (g) ZrS (g)
$\Delta H_{298}^0 = 309.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 247 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 34 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
S_{1.043}V (s) VS _{1.043} (s)	Vanadium Sulfide	S_{1.043}V (s) VS _{1.043} (s)
$\Delta H_{298}^0 = -230.3 \pm 2.2 \text{ kJ}\cdot\text{mol}^{-1}$ [114]		$S_{298}^0 = [56.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S_{1.7}Th (s) ThS _{1.7} (s)	Thorium Sulfide	S_{1.7}Th (s) ThS _{1.7} (s)
mp = 2040 K (1767 °C)		
$\Delta H_{298}^0 = -594.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 91.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₂ (g)	Sulfur	S₂ (g)
$\Delta H_{298}^0 = 128.6 \pm 0.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 228.2 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 35.06 + 2.58 \cdot 10^{-3} \cdot T - 0.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, \text{K}) = -7.15 \cdot 10^3 \cdot T^{-1} - 4.39 \cdot \lg(T) + 21.03$ (388 ... 717 K) [4]		
{Reaction: evaporation of S(l)}		

S₂Sb₃ (g)	Antimony Sulfide	S₂Sb₃ (g)
Sb ₃ S ₂ (g)		Sb ₃ S ₂ (g)

$$\Delta H_{298}^0 = 28.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 406.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 98.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

S₂Si (s)	Silicon(IV) Sulfide	S₂Si (s)
SiS ₂ (s)		SiS ₂ (s)

$$\text{mp} = 1363 \text{ K} (1090 \text{ }^\circ\text{C})$$

$$\text{bp} = 2100 \text{ K} (1827 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = -213.4 \pm 20.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 80.3 \pm 4.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 74.14 + 12.38 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1363 \text{ K}) [4]$$

$$\lg(p, K) = -15.97 \cdot 10^3 \cdot T^{-1} - 3.76 \cdot \lg(T) + 20.21 (900 \dots 1363 \text{ K}) [4]$$

{Reaction: evaporation as SiS₂(g)}

S₂Si (s)	Silicon(IV) Sulfide	S₂Si (s)
SiS ₂ (s)		SiS ₂ (s)

$$\Delta H_{1363}^0 = -123.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1363}^0 = 206.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

S₂Si (l)	Silicon(IV) Sulfide	S₂Si (l)
SiS ₂ (l)		SiS ₂ (l)

$$\Delta H_{1363}^0 = -115.1 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{1363}^0 = 212.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1363 \text{ K}) [4]$$

S₂Si (l)	Silicon(IV) Sulfide	S₂Si (l)
SiS ₂ (l)		SiS ₂ (l)

$$\Delta H_{298}^0 = -206.9 \text{ kJ}\cdot\text{mol}^{-1} [1]$$

$$S_{298}^0 = 84.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 77.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

S₂Si (g)	Silicon(IV) Sulfide	S₂Si (g)
SiS ₂ (g)		SiS ₂ (g)

$$\Delta H_{298}^0 = 79.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 251.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 57.3 + 0.56 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

S₂Sn (s) SnS ₂ (s)	Tin(IV) Sulfide	S₂Sn (s) SnS ₂ (s)
$\Delta H_{298}^0 = -153.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 64.89 + 17.57 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1033 K) [4]		$S_{298}^0 = 87.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
S₂Sn₂ (g) Sn ₂ S ₂ (g)	Tin Sulfide	S₂Sn₂ (g) Sn ₂ S ₂ (g)
$\Delta H_{298}^0 = 20.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [313.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₂Ta (s) TaS ₂ (s)	Tantalum(IV) Sulfide	S₂Ta (s) TaS ₂ (s)
$\Delta H_{298}^0 = -354 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
S₂Tc (s) TcS ₂ (s)	Technetium(IV) Sulfide	S₂Tc (s) TcS ₂ (s)
$\Delta H_{298}^0 = [-223.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [71.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₂Th (s) ThS ₂ (s)	Thorium(IV) Sulfide	S₂Th (s) ThS ₂ (s)
mp = 2178 K (1905 °C) $\Delta H_{298}^0 = -626 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 67.03 + 11 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2178 K) [4]		$S_{298}^0 = 92.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S₂Ti (s) TiS ₂ (s)	Titanium(IV) Sulfide	S₂Ti (s) TiS ₂ (s)
$\Delta H_{298}^0 = -407.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 33.81 + 114.39 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 -420 K) [4]		$S_{298}^0 = 78.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

S₂Tl (s) TlS ₂ (s)	Thallium(IV) Sulfide	S₂Tl (s) TlS ₂ (s)
$\Delta H_{298}^0 = [-62.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [102.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₂U (s) US ₂ (s)	Uranium(IV) Sulfide beta	S₂U (s) US ₂ (s)
mp = 2120 K (1847 °C)		$S_{298}^0 = 110.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$\Delta H_{298}^0 = -527 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		
$C_p^0 = 71.8 + 9.62 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
S₂U (g) US ₂ (g)	Uranium(IV) Sulfide	S₂U (g) US ₂ (g)
$\Delta H_{298}^0 = 125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [328.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₂W (s) WS ₂ (s)	Tungsten(IV) Sulfide	S₂W (s) WS ₂ (s)
mp = 2073 K (1800 °C)		$S_{298}^0 = 64.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$\Delta H_{298}^0 = -259.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		
$C_p^0 = 68.63 + 15.61 \cdot 10^{-3} \cdot T - 0.87 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2073 K) [4]		
S₂Zr (s) ZrS ₂ (s)	Zirconium(IV) Sulfide	S₂Zr (s) ZrS ₂ (s)
mp = 1823 K (1550 °C)		$S_{298}^0 = 78.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$\Delta H_{298}^0 = -577.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		
$C_p^0 = 62.72 + 21.51 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1823 K) [4]		
S₃ (g)	Sulfur	S₃ (g)
$\Delta H_{298}^0 = 138.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 269.5 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 53.78 + 4.35 \cdot 10^{-3} \cdot T - 0.65 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(\rho, K) = -7.89 \cdot 10^3 \cdot T^{-1} - 6.51 \cdot \lg(T) + 27.5$ (500 ... 717 K) [4]		
{Reaction: evaporation of S(l)}		

S₃Sb₂ (s) Sb ₂ S ₃ (s)	Antimony(III) Sulfide	S₃Sb₂ (s) Sb ₂ S ₃ (s)
mp = 823 K (550 °C)		
$\Delta H_{298}^0 = -205 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 182 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 101.84 + 60.54 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 823 K) [4]		
S₃Sb₂ (s) Sb ₂ S ₃ (s)	Antimony(III) Sulfide	S₃Sb₂ (s) Sb ₂ S ₃ (s)
$\Delta H_{823}^0 = -133.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 317.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S₃Sb₂ (l) Sb ₂ S ₃ (l)	Antimony(III) Sulfide	S₃Sb₂ (l) Sb ₂ S ₃ (l)
$\Delta H_{823}^0 = -85.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{823}^0 = 375.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 167.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (823 K) [4]		
S₃Sb₂ (g) Sb ₂ S ₃ (g)	Antimony(III) Sulfide	S₃Sb₂ (g) Sb ₂ S ₃ (g)
$\Delta H_{298}^0 = -119.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 409.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 99.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
S₃Sb₄ (g) Sb ₄ S ₃ (g)	Antimony Sulfide	S₃Sb₄ (g) Sb ₄ S ₃ (g)
$\Delta H_{298}^0 = -35.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 483.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 147.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
S₃Sc₂ (s) Sc ₂ S ₃ (s)	Scandium(III) Sulfide	S₃Sc₂ (s) Sc ₂ S ₃ (s)
$\Delta H_{298}^0 = -1171.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 123.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 102.17 + 36.07 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1000 K) [4]		

S₃Sm₂ (s) Sm ₂ S ₃ (s)	Samarium(III) Sulfide	S₃Sm₂ (s) Sm ₂ S ₃ (s)
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mp = 2050 K (1777 °C)

 $\Delta H_{298}^0 = [-1192.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [200.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₃Sn₂ (s) Sn ₂ S ₃ (s)	Tin Sulfide	S₃Sn₂ (s) Sn ₂ S ₃ (s)
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mp = 1033 K (760 °C)

 $\Delta H_{298}^0 = -263.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $S_{298}^0 = 164.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 107.03 + 43.93 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1033 K) [4]

S₃Ta (s) TaS ₃ (s)	Tantalum Sulfide	S₃Ta (s) TaS ₃ (s)
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 $\Delta H_{298}^0 = -376.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [92] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₃Tb₂ (s) Tb ₂ S ₃ (s)	Terbium(III) Sulfide	S₃Tb₂ (s) Tb ₂ S ₃ (s)
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 $\Delta H_{298}^0 = [-1213.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [205] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₃Tc (s) TcS ₃ (s)	Technetium Sulfide	S₃Tc (s) TcS ₃ (s)
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 $\Delta H_{298}^0 = [-276.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $S_{298}^0 = [83.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₃Th₂ (s) Th ₂ S ₃ (s)	Thorium(III) Sulfide	S₃Th₂ (s) Th ₂ S ₃ (s)
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mp = 2120 K (1847 °C)

 $\Delta H_{298}^0 = -1086.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $S_{298}^0 = 180 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2] $C_p^0 = 121.96 + 15.06 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2120 K) [4]

S₃Ti (s) TiS ₃ (s)	Titanium Sulfide	S₃Ti (s) TiS ₃ (s)
$\Delta H^0_{298} = -429.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [90.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₃Tl₄ (s) Tl ₄ S ₃ (s)	Thallium Sulfide	S₃Tl₄ (s) Tl ₄ S ₃ (s)
$\Delta H^0_{298} = [-219.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [211.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₃Tm₂ (s) Tm ₂ S ₃ (s)	Thulium(III) Sulfide	S₃Tm₂ (s) Tm ₂ S ₃ (s)
$\Delta H^0_{298} = [-1242.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [194.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₃U (s) US ₃ (s)	Uranium Sulfide	S₃U (s) US ₃ (s)
$\Delta H^0_{298} = -544.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 87.03 + 29.29 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 999 K) [4]		$S^0_{298} = 138.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
S₃U₂ (s) U ₂ S ₃ (s)	Uranium Sulfide	S₃U₂ (s) U ₂ S ₃ (s)
mp = 2300 K (2027 °C) $\Delta H^0_{298} = -854 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 140.83 + 16.11 \cdot 10^{-3} \cdot T - 0.38 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S^0_{298} = 199.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
S₃W (s) WS ₃ (s)	Tungsten(VI) Sulfide	S₃W (s) WS ₃ (s)
$\Delta H^0_{298} = [-292.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [77.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₃Y₂ (s) Y ₂ S ₃ (s)	Yttrium(III) Sulfide	S₃Y₂ (s) Y ₂ S ₃ (s)
$\Delta H^0_{298} = [-1255.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [142.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₃Yb₂ (s) Yb ₂ S ₃ (s)	Ytterbium(III) Sulfide	S₃Yb₂ (s) Yb ₂ S ₃ (s)
$\Delta H_{298}^0 = [-1171.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [161.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₃Zr (s) ZrS ₃ (s)	Zirconium Sulfide	S₃Zr (s) ZrS ₃ (s)
$\Delta H_{298}^0 = -627.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
S₄ (g)	Sulfur	S₄ (g)
$\Delta H_{298}^0 = 145.8 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 310.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 79.88 + 3.28 \cdot 10^{-3} \cdot T - 1.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -8.38 \cdot 10^3 \cdot T^{-1} - 8.03 \cdot \lg(T) + 32.27$ (500 ... 717 K) [4]		
{Reaction: evaporation of S(l)}		
S₄Sb₂ (g) Sb ₂ S ₄ (g)	Antimony Sulfide	S₄Sb₂ (g) Sb ₂ S ₄ (g)
$\Delta H_{298}^0 = -93.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 432.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 122.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
S₄Sn₃ (s) Sn ₃ S ₄ (s)	Tin Sulfide	S₄Sn₃ (s) Sn ₃ S ₄ (s)
mp = 983 K (710 °C)		
$\Delta H_{298}^0 = -370.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 243.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 150.96 + 62.34 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 983 K) [4]		
S₄V (s) VS ₄ (s)	Vanadium Sulfide	S₄V (s) VS ₄ (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [106.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

S₅ (g)	Sulfur	S₅ (g)
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$\Delta H_{298}^0 = 109.4 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 308.6 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 106.94 + 1.06 \cdot 10^{-3} \cdot T - 1.58 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]	
$\lg(p,K) = -6.59 \cdot 10^3 \cdot T^{-1} - 9.44 \cdot \lg(T) + 34.39$ (388 ... 717 K) [4]	
{Reaction: evaporation of S(l)}	

S₆ (g)	Sulfur	S₆ (g)
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$\Delta H_{298}^0 = 101.9 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 354.1 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 132.13 + 0.5 \cdot 10^{-3} \cdot T - 1.84 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]	
$\lg(p,K) = -5.58 \cdot 10^3 \cdot T^{-1} - 3.65 \cdot \lg(T) + 18.78$ (298 ... 388 K) [4]	
{Reaction: evaporation of S(l)}	

S₇ (g)	Sulfur	S₇ (g)
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$\Delta H_{298}^0 = 113.7 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 407.7 \pm 4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 155.12 + 2.45 \cdot 10^{-3} \cdot T - 2.04 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]	
$\lg(p,K) = -6.95 \cdot 10^3 \cdot T^{-1} - 12.38 \cdot \lg(T) + 44.45$ (388 ... 717 K) [4]	
{Reaction: evaporation of S(l)}	

S₇Tc₂ (s)	Technetium(VII) Sulfide	S₇Tc₂ (s)
Tc ₂ S ₇ (s)		Tc ₂ S ₇ (s)

$\Delta H_{298}^0 = [-307.5] \text{ kJ}\cdot\text{mol}^{-1}$ [5]	$S_{298}^0 = [87.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
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S₇Th₃ (s)	Thorium Sulfide	S₇Th₃ (s)
Th ₃ S ₇ (s)		Th ₃ S ₇ (s)

$\Delta H_{298}^0 = -1917.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]	$S_{298}^0 = [322.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
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S₈ (g)	Sulfur	S₈ (g)
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$\Delta H_{298}^0 = 100.4 \pm 0.6 \text{ kJ}\cdot\text{mol}^{-1}$ [1]	$S_{298}^0 = 430.3 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 180.32 + 1.72 \cdot 10^{-3} \cdot T - 2.24 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1200 K) [4]	
$\lg(p,K) = -5.58 \cdot 10^3 \cdot T^{-1} - 4.15 \cdot \lg(T) + 20.78$ (298 ... 388 K) [4]	
{Reaction: evaporation of S(l)}	

Sb (s)	Antimony	Sb (s)
mp = 904 K (631 °C)		bp = 1858 K (1585 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 45.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.51 - 15.5 \cdot 10^{-3} \cdot T - 0.2 \cdot 10^6 \cdot T^{-2} + 18.02 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 904 K) [4]		
$\lg(p,K) = -11.14 \cdot 10^3 \cdot T^{-1} - 2.84 \cdot \lg(T) + 17.03$ (700 ... 904 K) [4]		
{Reaction: evaporation (total pressure)}		
Sb (s)	Antimony	Sb (s)
$\Delta H_{904}^0 = 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{904}^0 = 75.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (904 K) [4]		
Sb (l)	Antimony	Sb (l)
$\Delta H_{904}^0 = 36.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{904}^0 = 97.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 31.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (904 K) [4]		
$\lg(p,K) = -8.69 \cdot 10^3 \cdot T^{-1} - 4 \cdot \lg(T) + 17.75$ (904 ... 1858 K) [4]		
{Reaction: evaporation (total pressure)}		
Sb (g)	Antimony	Sb (g)
$\Delta H_{298}^0 = 265.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 180.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
$\lg(p,K) = -13.1 \cdot 10^3 \cdot T^{-1} - 1.23 \cdot \lg(T) + 9.69$ (904 ... 1858 K) [4]		
{Reaction: evaporation of Sb(l)}		
SbSe (g)	Antimony Selenide	SbSe (g)
$\Delta H_{298}^0 = 212.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 255.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
SbTe (g)	Antimony Telluride	SbTe (g)
$\Delta H_{298}^0 = 202.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [262.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

SbZn (s) ZnSb (s)	Zinc Antimonide	SbZn (s) ZnSb (s)
mp = 820 K (547 °C)		
$\Delta H_{298}^0 = -19 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 82.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 44.69 + 17.32 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 820 K) [4]		
SbZn (s) ZnSb (s)	Zinc Antimonide	SbZn (s) ZnSb (s)
$\Delta H_{820}^0 = 9.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{820}^0 = 136.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
SbZn (l) ZnSb (l)	Zinc Antimonide	SbZn (l) ZnSb (l)
$\Delta H_{820}^0 = 40.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{820}^0 = 174.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 62.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (820 K) [4]		
Sb₂ (g)	Antimony	Sb₂ (g)
$\Delta H_{298}^0 = 231.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 254.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.41 - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -12.55 \cdot 10^3 \cdot T^{-1} - 2.63 \cdot \lg(T) + 16.49$ (700 ... 904 K) [4]		
{Reaction: evaporation of Sb(l)}		
Sb₂Se₃ (s)	Antimony(III) Selenide	Sb₂Se₃ (s)
mp = 888 K (615 °C)		bp = 1304 K (1031 °C)
$\Delta H_{298}^0 = -127.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 212.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 118.74 + 20.92 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 888 K) [4]		
Sb₂Se₃ (s)	Antimony(III) Selenide	Sb₂Se₃ (s)
$\Delta H_{888}^0 = -50.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{888}^0 = 354.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]

Sb₂Se₃ (l)	Antimony(III) Selenide	Sb₂Se₃ (l)
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$$\Delta H_{888}^0 = 3.5 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 171.54 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (888 \text{ K}) [4]$$

$$S_{888}^0 = 414.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Sb₂Te₃ (s)	Antimony(III) Telluride	Sb₂Te₃ (s)
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$$\Delta H_{298}^0 = -56.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 112.88 + 53.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 892 \text{ K}) [4]$$

$$S_{298}^0 = 246.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Sb₂Te₃ (s)	Antimony(III) Telluride	Sb₂Te₃ (s)
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$$\Delta H_{892}^0 = 29.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{892}^0 = 401.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Sb₂Te₃ (l)	Antimony(III) Telluride	Sb₂Te₃ (l)
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$$\Delta H_{892}^0 = 128.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 196.65 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (892 \text{ K}) [4]$$

$$S_{892}^0 = 512.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Sb₂U (s)	Uranium Antimonide	Sb₂U (s)
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USb₂ (s)

USb₂ (s)

$$\Delta H_{298}^0 = -176 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 69.96 + 34.23 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$S_{298}^0 = 141.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Sb₄ (g)	Antimony	Sb₄ (g)
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$$\Delta H_{298}^0 = 206.5 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$C_p^0 = 83.09 + 0.01 \cdot 10^{-3} \cdot T - 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

$$\lg(p, K) = -11.59 \cdot 10^3 \cdot T^{-1} - 4.26 \cdot \lg(T) + 21.72 (700 \dots 904 \text{ K}) [4]$$

{Reaction: evaporation of Sb(l)}

$$S_{298}^0 = 350.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

Sb₄U₃ (s)	Uranium Antimonide	Sb₄U₃ (s)
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U₃Sb₄ (s)

U₃Sb₄ (s)

$$\Delta H_{298}^0 = -452 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$C_p^0 = 163.39 + 83.14 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1000 \text{ K}) [4]$$

$$S_{298}^0 = 349.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

Sc (s)	Scandium alpha	Sc (s)
mp = 1812 K (1539 °C)		bp = 3101 K (2828 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 34.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 24.81 + 1.22 \cdot 10^{-3} \cdot T + 0.03 \cdot 10^6 \cdot T^{-2} + 5.15 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1608 K) [4]		
$\lg(p,K) = -20.45 \cdot 10^3 \cdot T^{-1} - 2.01 \cdot \lg(T) + 13.9$ (1300 ... 1608 K) [4]		
{Reaction: evaporation as Sc(g)}		
Sc (s)	Scandium alpha	Sc (s)
$\Delta H_{1608}^0 = 41.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1608}^0 = 84.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 40.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1608 K) [4]		
Sc (s)	Scandium beta	Sc (s)
$\Delta H_{1608}^0 = 45.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1608}^0 = 87.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1608 ... 1812 K) [4]		
$\lg(p,K) = -20.78 \cdot 10^3 \cdot T^{-1} - 2.79 \cdot \lg(T) + 16.61$ (1608 ... 1812 K) [4]		
{Reaction: evaporation as Sc(g)}		
Sc (s)	Scandium beta	Sc (s)
$\Delta H_{1812}^0 = 54.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1812}^0 = 92.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Sc (l)	Scandium	Sc (l)
$\Delta H_{1812}^0 = 68.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1812}^0 = 100.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.22 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1812 K) [4]		
$\lg(p,K) = -20.03 \cdot 10^3 \cdot T^{-1} - 2.77 \cdot \lg(T) + 16.13$ (1812 ... 2000 K) [4]		
{Reaction: evaporation as Sc(g)}		
Sc (g)	Scandium	Sc (g)
$\Delta H_{298}^0 = 378 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 174.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.39 - 1.14 \cdot 10^{-3} \cdot T + 0.12 \cdot 10^6 \cdot T^{-2} + 0.53 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

ScSe (s)	Scandium Selenide	ScSe (s)
$\Delta H_{298}^0 = [-355.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [69] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ScSe (g)	Scandium Selenide	ScSe (g)
$\Delta H_{298}^0 = 236.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [248.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.28] + [0.07] \cdot 10^{-3} \cdot T + [-0.19] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
ScTe (s)	Scandium Telluride	ScTe (s)
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [76.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
ScTe (g)	Scandium Telluride	ScTe (g)
$\Delta H_{298}^0 = 293.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [256.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.34] + [0.04] \cdot 10^{-3} \cdot T + [-0.14] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Sc₂ (g)	Scandium	Sc₂ (g)
$\Delta H_{298}^0 = 610.9 \text{ kJ}\cdot\text{mol}^{-1}$ [93]		$S_{298}^0 = 255.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [93]
Sc₂Se₃ (s)	Scandium(III) Selenide	Sc₂Se₃ (s)
$\Delta H_{298}^0 = [-941.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [161.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Sc₂Te₃ (s)	Scandium(III) Telluride	Sc₂Te₃ (s)
$\Delta H_{298}^0 = [-711.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [182] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Sc₅Si₃ (s)	Scandium Silicide	Sc₅Si₃ (s)
$\Delta H_{298}^0 = -552 \text{ kJ}\cdot\text{mol}^{-1}$ [181]		$S_{298}^0 = 209.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [181]

Se (s)	Selenium	Se (s)
mp = 493 K (220 °C)		bp = 957 K (684 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 42.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 17.89 + 25.1 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 493 K) [4]		
$\lg(p,K) = -9.09 \cdot 10^3 \cdot T^{-1} - 4.22 \cdot \lg(T) + 24.68$ (298 ... 493 K) [4]		
{Reaction: evaporation (total pressure)}		
Se (s)	Selenium	Se (s)
$\Delta H_{493}^0 = 5.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{493}^0 = 56.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (493 K) [4]		
Se (l)	Selenium	Se (l)
$\Delta H_{493}^0 = 11.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{493}^0 = 68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.15 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (493 K) [4]		
$\lg(p,K) = -7.1 \cdot 10^3 \cdot T^{-1} - 6.46 \cdot \lg(T) + 26.68$ (493 ... 957 K) [4]		
{Reaction: evaporation (total pressure)}		
Se (g)	Selenium	Se (g)
$\Delta H_{298}^0 = 235.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 176.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.46 + 1.51 \cdot 10^{-3} \cdot T - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -12.25 \cdot 10^3 \cdot T^{-1} - 1.54 \cdot \lg(T) + 11.05$ (800 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
SeSi (g)	Silicon(II) Selenide	SeSi (g)
SiSe (g)		SiSe (g)
$\Delta H_{298}^0 = 202.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 235.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 33.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
SeSm (s)	Samarium Selenide	SeSm (s)
SmSe (s)		SmSe (s)
$\Delta H_{298}^0 = -443.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 94.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 59.83 + 3.22 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

SeSm (g)	Samarium Selenide	SeSm (g)
SmSe (g)		SmSe (g)

$$\Delta H_{298}^0 = 128.9 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 278.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 37.29 + 0.07 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SeSn (s)	Tin(II) Selenide	SeSn (s)
SnSe (s)	alpha	SnSe (s)

mp = 1153 K (880 °C)

$$\Delta H_{298}^0 = -88.7 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 89.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.65 + 19.96 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 813 \text{ K}) [4]$$

$$\lg(p, K) = -11.74 \cdot 10^3 \cdot T^{-1} - 2.96 \cdot \lg(T) + 17.46 (700 \dots 813 \text{ K}) [4]$$

{Reaction: evaporation as SnSe(g)}

SeSn (s)	Tin(II) Selenide	SeSn (s)
SnSe (s)	alpha	SnSe (s)

$$\Delta H_{813}^0 = -59 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{813}^0 = 146.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

SeSn (s)	Tin(II) Selenide	SeSn (s)
SnSe (s)	beta	SnSe (s)

$$\Delta H_{813}^0 = -54.8 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{813}^0 = 151.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 47.11 + 11.72 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (813 \dots 1153 \text{ K}) [4]$$

$$\lg(p, K) = -11.39 \cdot 10^3 \cdot T^{-1} - 2.58 \cdot \lg(T) + 15.93 (813 \dots 1153 \text{ K}) [4]$$

{Reaction: evaporation as SnSe(g)}

SeSn (l)	Tin(II) Selenide	SeSn (l)
SnSe (l)		SnSe (l)

$$\Delta H_{298}^0 = -12.1 \text{ kJ}\cdot\text{mol}^{-1} [160] \qquad S_{298}^0 = 189.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [160]$$

SeSn (g)	Tin(II) Selenide	SeSn (g)
SnSe (g)		SnSe (g)

$$\Delta H_{298}^0 = 126.8 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 254.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 37.36 - 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SeSr (s) SrSe (s)	Strontium Selenide	SeSr (s) SrSe (s)
$\Delta H_{298}^0 = -397.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [80.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeSr (g) SrSe (g)	Strontium Selenide	SeSr (g) SrSe (g)
$\Delta H_{298}^0 = 120.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [254.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
SeTb (s) TbSe (s)	Terbium Selenide	SeTb (s) TbSe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTb (g) TbSe (g)	Terbium Selenide	SeTb (g) TbSe (g)
$\Delta H_{298}^0 = 205 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 277.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
SeTe (g) TeSe (g)	Tellurium Selenide	SeTe (g) TeSe (g)
$\Delta H_{298}^0 = 151.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [256.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTh (s) ThSe (s)	Thorium Selenide	SeTh (s) ThSe (s)
mp = 2150 K (1877 °C)		
$\Delta H_{298}^0 = [-355.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [87.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTi (s) TiSe (s)	Titanium Selenide	SeTi (s) TiSe (s)
$\Delta H_{298}^0 = [-221.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [73.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

SeTi (g) TiSe (g)	Titanium Selenide	SeTi (g) TiSe (g)
$\Delta H_{298}^0 = 339.7 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [258.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTl (s) TlSe (s)	Thallium Selenide	SeTl (s) TlSe (s)
mp = 603 K (330 °C) $\Delta H_{298}^0 = -61.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 39.75 + 34.85 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 603 K) [4]		$S_{298}^0 = 102.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
SeTl₂ (s) Tl ₂ Se (s)	Thallium Selenide	SeTl₂ (s) Tl ₂ Se (s)
mp = 663 K (390 °C) $\Delta H_{298}^0 = -94.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 69.75 + 32.64 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 663 K) [4]		$S_{298}^0 = 173.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
SeTl₂ (g) Tl ₂ Se (g)	Thallium Selenide	SeTl₂ (g) Tl ₂ Se (g)
$\Delta H_{298}^0 = [138.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [343.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTm (s) TmSe (s)	Thulium Selenide	SeTm (s) TmSe (s)
$\Delta H_{298}^0 = [-368.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
SeTm (g) TmSe (g)	Thulium Selenide	SeTm (g) TmSe (g)
$\Delta H_{298}^0 = [208.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $C_p^0 = [37.29] + [0.07] \cdot 10^{-3} \cdot T + [-0.18] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		$S_{298}^0 = [269.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

SeU (s)	Uranium Selenide	SeU (s)
USe (s)		USe (s)

mp = 2192 K (1919 °C)

$$\Delta H_{298}^0 = -276 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 96.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 52.89 + 6.4 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2192 K) [4]}$$

SeU (g)	Uranium Selenide	SeU (g)
USe (g)		USe (g)

$$\Delta H_{298}^0 = 373.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 275 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 37.3 + 0.06 \cdot 10^{-3} \cdot T - 0.18 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2192 K) [4]}$$

SeV (g)	Vanadium Selenide	SeV (g)
VSe (g)		VSe (g)

$$\Delta H_{298}^0 = 404.6 \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [260.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

$$C_p^0 = [37.25] + [0.09] \cdot 10^{-3} \cdot T + [-0.21] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [5]}$$

SeY (s)	Yttrium Selenide	SeY (s)
YSe (s)		YSe (s)

$$\Delta H_{298}^0 = [-359.8] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [79.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

SeY (g)	Yttrium Selenide	SeY (g)
YSe (g)		YSe (g)

$$\Delta H_{298}^0 = [223.8] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [256.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

$$C_p^0 = [35.56] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 K) [5]}$$

SeYb (s)	Ytterbium Selenide	SeYb (s)
YbSe (s)		YbSe (s)

$$\Delta H_{298}^0 = [-359.8] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [81.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

SeYb (g)	Ytterbium Selenide	SeYb (g)
YbSe (g)		YbSe (g)

$$\Delta H_{298}^0 = [200.8] \text{ kJ}\cdot\text{mol}^{-1} \text{ [5]}$$

$$S_{298}^0 = [267.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [5]}$$

$$C_p^0 = [37.33] + [0.04] \cdot 10^{-3} \cdot T + [-0.15] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [5]}$$

SeZn (s) ZnSe (s)	Zinc Selenide	SeZn (s) ZnSe (s)
mp = 1799 K (1526 °C)		
$\Delta H_{298}^0 = -170.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 77.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 50.17 + 5.77 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1799 K) [4]		
SeZn (g) ZnSe (g)	Zinc Selenide	SeZn (g) ZnSe (g)
$\Delta H_{298}^0 = 237.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 249.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.38 + 0.02 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Se_{1.7}Th (s) ThSe _{1.7} (s)	Thorium Selenide	Se_{1.7}Th (s) ThSe _{1.7} (s)
$\Delta H_{298}^0 = [-502.1] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [113] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se_{1.94}Si (s) SiSe _{1.94} (s)	Silicon Selenide	Se_{1.94}Si (s) SiSe _{1.94} (s)
$\Delta H_{298}^0 = -176.7 \pm 4.5 \text{ kJ}\cdot\text{mol}^{-1}$ [101]		$S_{298}^0 = [100.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [102, 8]
Se₂ (g)	Selenium	Se₂ (g)
$\Delta H_{298}^0 = 136.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 243.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.6 - 2.66 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -7.12 \cdot 10^3 \cdot T^{-1} - 3.41 \cdot \lg(T) + 17.39$ (500 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₂Si (s) SiSe ₂ (s)	Silicon(IV) Selenide	Se₂Si (s) SiSe ₂ (s)
$\Delta H_{298}^0 = -178.4 \pm 3.1 \text{ kJ}\cdot\text{mol}^{-1}$ [101]		$S_{298}^0 = [103.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [102, 8]

Se₂Si (g) SiSe ₂ (g)	Silicon(IV) Selenide	Se₂Si (g) SiSe ₂ (g)
$\Delta H^0_{298} = 164.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [276.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₂Sn (s) SnSe ₂ (s)	Tin(IV) Selenide	Se₂Sn (s) SnSe ₂ (s)
mp = 930 K (657 °C) $\Delta H^0_{298} = -121.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 62.05 + 31.63 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 930 K) [4]		$S^0_{298} = 112.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Se₂Sn₂ (g) Sn ₂ Se ₂ (g)	Tin Selenide	Se₂Sn₂ (g) Sn ₂ Se ₂ (g)
$\Delta H^0_{298} = [58.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [332.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₂Th (s) ThSe ₂ (s)	Thorium Selenide	Se₂Th (s) ThSe ₂ (s)
$\Delta H^0_{298} = [-543.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [125.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₂Ti (s) TiSe ₂ (s)	Titanium Selenide	Se₂Ti (s) TiSe ₂ (s)
$\Delta H^0_{298} = -384.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₂U (s) USE ₂ (s)	Uranium Selenide	Se₂U (s) USE ₂ (s)
$\Delta H^0_{298} = [-426.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = 133.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₂W (s) WSe ₂ (s)	Tungsten Selenide	Se₂W (s) WSe ₂ (s)
$\Delta H^0_{298} = -185.3 \pm 5.5 \text{ kJ}\cdot\text{mol}^{-1}$ [120]		$S^0_{298} = [90] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Se₂Zr (s) ZrSe ₂ (s)	Zirconium Selenide	Se₂Zr (s) ZrSe ₂ (s)
$\Delta H_{298}^0 = [-426.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [94.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃ (g)	Selenium	Se₃ (g)
$\Delta H_{298}^0 = 173.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 315 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 58.14 + 3.04 \cdot 10^{-3} \cdot T - 0.22 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -9.06 \cdot 10^3 \cdot T^{-1} - 5.49 \cdot \lg(T) + 24.48$ (500 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₃Sm₂ (s) Sm ₂ Se ₃ (s)	Samarium Selenide	Se₃Sm₂ (s) Sm ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-878.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [240.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Tb₂ (s) Tb ₂ Se ₃ (s)	Terbium Selenide	Se₃Tb₂ (s) Tb ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [242.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Th₂ (s) Th ₂ Se ₃ (s)	Thorium Selenide	Se₃Th₂ (s) Th ₂ Se ₃ (s)
$\Delta H_{298}^0 = -937.2 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [213.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Tl₂ (s) Tl ₂ Se ₃ (s)	Thallium Selenide	Se₃Tl₂ (s) Tl ₂ Se ₃ (s)
$\Delta H_{298}^0 = -114.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [259.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Tm₂ (s) Tm ₂ Se ₃ (s)	Thulium Selenide	Se₃Tm₂ (s) Tm ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [232.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Se₃U (s) USe ₃ (s)	Uranium Selenide	Se₃U (s) USe ₃ (s)
$\Delta H_{298}^0 = [-418.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [177] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃U₂ (s) U ₂ Se ₃ (s)	Uranium Selenide	Se₃U₂ (s) U ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-711.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [233.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Y₂ (s) Y ₂ Se ₃ (s)	Yttrium Selenide	Se₃Y₂ (s) Y ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-941.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [179.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Yb₂ (s) Yb ₂ Se ₃ (s)	Ytterbium Selenide	Se₃Yb₂ (s) Yb ₂ Se ₃ (s)
$\Delta H_{298}^0 = [-962.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [198.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₃Zr (s) ZrSe ₃ (s)	Zirconium Selenide	Se₃Zr (s) ZrSe ₃ (s)
$\Delta H_{298}^0 = [-418.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [100.4] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₄ (g)	Selenium	Se₄ (g)
$\Delta H_{298}^0 = 180.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 379.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 83.08 + 0.03 \cdot 10^{-3} \cdot T - 0.25 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -9.4 \cdot 10^3 \cdot T^{-1} - 6.99 \cdot \lg(T) + 29.59$ (500 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₄U₃ (s) U ₃ Se ₄ (s)	Uranium Selenide	Se₄U₃ (s) U ₃ Se ₄ (s)
$\Delta H_{298}^0 = -982.8 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [338.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Se₅ (g)	Selenium	Se₅ (g)
$\Delta H_{298}^0 = 135.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 385.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 107.93 + 0.09 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -6.97 \cdot 10^3 \cdot T^{-1} - 8.33 \cdot \lg(T) + 31.14$ (493 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₅U₃ (s)	Uranium Selenide	Se₅U₃ (s)
U ₃ Se ₅ (s)		U ₃ Se ₅ (s)
$\Delta H_{298}^0 = [-1129.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [364] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Se₆ (g)	Selenium	Se₆ (g)
$\Delta H_{298}^0 = 132.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 433.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 132.91 + 0.07 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -6.75 \cdot 10^3 \cdot T^{-1} - 9.56 \cdot \lg(T) + 34.61$ (493 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₇ (g)	Selenium	Se₇ (g)
$\Delta H_{298}^0 = 141.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 486.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 157.76 + 0.11 \cdot 10^{-3} \cdot T - 0.83 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -7.13 \cdot 10^3 \cdot T^{-1} - 10.87 \cdot \lg(T) + 38.52$ (493 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Se₈ (g)	Selenium	Se₈ (g)
$\Delta H_{298}^0 = 152.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 531.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 182.74 + 0.09 \cdot 10^{-3} \cdot T - 0.49 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p,K) = -7.63 \cdot 10^3 \cdot T^{-1} - 11.99 \cdot \lg(T) + 41.52$ (493 ... 957 K) [4]		
{Reaction: evaporation of Se(s)}		
Si (s)	Silicon	Si (s)
mp = 1685 K (1412 °C)		bp = 3536 K (3263 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 18.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 22.81 + 3.87 \cdot 10^{-3} \cdot T - 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1685 K) [4]		

Si (s)	Silicon	Si (s)
$\Delta H_{1685}^0 = 36 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1685}^0 = 61.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Si (l)	Silicon	Si (l)
$\Delta H_{1685}^0 = 86.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1685}^0 = 91.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 27.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1685 K) [4]		
$\lg(p, K) = -21.06 \cdot 10^3 \cdot T^{-1} - 0.38 \cdot \lg(T) + 7.28$ (1685 ... 2500 K) [4]		
{Reaction: evaporation as Si(g)}		
Si (l)	Silicon	Si (l)
$\Delta H_{298}^0 = 48.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 44.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1685 K) [4]		
Si (g)	Silicon	Si (g)
$\Delta H_{298}^0 = 450 \pm 8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 168 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 19.8 + 1.01 \cdot 10^{-3} \cdot T + 0.21 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
SiTa₂ (s)	Tantalum Silicide	SiTa₂ (s)
Ta ₂ Si (s)		Ta ₂ Si (s)
mp = 2690 K (2417 °C)		
$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 105.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 72.38 + 10.88 \cdot 10^{-3} \cdot T - 0.59 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
SiTe (g)	Silicon(II) Telluride	SiTe (g)
$\Delta H_{298}^0 = 219.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 245.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.03 + 0.25 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
SiTe₂ (g)	Silicon(IV) Telluride	SiTe₂ (g)
$\Delta H_{298}^0 = 216.3 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [290.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

SiTh (s)	Thorium Silicide	SiTh (s)
ThSi (s)		ThSi (s)

mp = 2053 K (1780 °C)

$$\Delta H_{298}^0 = -128 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 58.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 49.41 + 10.29 \cdot 10^{-3} \cdot T - 0.46 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2053 \text{ K}) [4]$$

SiTi (s)	Titanium Silicide	SiTi (s)
TiSi (s)		TiSi (s)

$$\Delta H_{298}^0 = -129.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 48.12 + 11.42 \cdot 10^{-3} \cdot T - 0.54 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1843 \text{ K}) [4]$$

SiU (s)	Uranium Silicide	SiU (s)
USi (s)		USi (s)

mp = 1848 K (1575 °C)

$$\Delta H_{298}^0 = -80.3 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 66.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 64.56 + 1.63 \cdot 10^{-3} \cdot T - 1.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1848 \text{ K}) [4]$$

SiU₃ (s)	Uranium Silicide	SiU₃ (s)
U ₃ Si (s)		U ₃ Si (s)

$$\Delta H_{298}^0 = -134.7 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 173.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 142.97 - 3.14 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1203 \text{ K}) [4]$$

SiV₃ (s)	Vanadium Silicide	SiV₃ (s)
V ₃ Si (s)		V ₃ Si (s)

mp = 2198 K (1925 °C)

$$\Delta H_{298}^0 = -150.6 \text{ kJ}\cdot\text{mol}^{-1} [4]$$

$$S_{298}^0 = 101.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 93.76 + 18.28 \cdot 10^{-3} \cdot T - 0.7 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

SiZr (s)	Zirconium Silicide	SiZr (s)
ZrSi (s)		ZrSi (s)

$$\Delta H_{298}^0 = -154.8 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 58.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 44.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [2]$$

SiZr₂ (s) Zr ₂ Si (s)	Zirconium Silicide	SiZr₂ (s) Zr ₂ Si (s)
$\Delta H_{298}^0 = -208.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 68.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		$S_{298}^0 = 100.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Si₂ (g)	Silicon	Si₂ (g)
$\Delta H_{298}^0 = 589.9 \pm 13 \text{ kJ}\cdot\text{mol}^{-1}$ [1] $C_p^0 = 34.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		$S_{298}^0 = 229.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
Si₂Ta (s) TaSi ₂ (s)	Tantalum Silicide	Si₂Ta (s) TaSi ₂ (s)
mp = 2470 K (2197 °C) $\Delta H_{298}^0 = -119.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 73.26 + 7.7 \cdot 10^{-3} \cdot T - 0.91 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 75.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Si₂Te₃ (s)	Silicon Telluride	Si₂Te₃ (s)
mp = 1158 K (885 °C) $\Delta H_{298}^0 = -77.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4] $C_p^0 = 125.52 + 24.56 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1158 K) [4]		$S_{298}^0 = 167.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
Si₂Th (s) ThSi ₂ (s)	Thorium Silicide	Si₂Th (s) ThSi ₂ (s)
mp = 2173 K (1900 °C) $\Delta H_{298}^0 = -174.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 73.35 + 12.76 \cdot 10^{-3} \cdot T - 0.88 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		$S_{298}^0 = 82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
Si₂Th₃ (s) Th ₃ Si ₂ (s)	Thorium Silicide	Si₂Th₃ (s) Th ₃ Si ₂ (s)
mp = 2173 K (1900 °C) $\Delta H_{298}^0 = -284.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 124.27 + 28.45 \cdot 10^{-3} \cdot T - 0.98 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2173 K) [4]		$S_{298}^0 = 163.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]

Si₂Ti (s)	Titanium Silicide	Si₂Ti (s)
TiSi ₂ (s)		TiSi ₂ (s)

mp = 1773 K (1500 °C)

$$\Delta H_{298}^0 = -133.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 61.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 70.42 + 17.57 \cdot 10^{-3} \cdot T - 0.9 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1773 K) [4]}$$

Si₂U (s)	Uranium Silicide	Si₂U (s)
USi ₂ (s)		USi ₂ (s)

mp = 1973 K (1700 °C)

$$\Delta H_{298}^0 = -130.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 82 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 89.62 + 4.06 \cdot 10^{-3} \cdot T - 1.68 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1973 K) [4]}$$

Si₂U₃ (s)	Uranium Silicide	Si₂U₃ (s)
U ₃ Si ₂ (s)		U ₃ Si ₂ (s)

mp = 1938 K (1665 °C)

$$\Delta H_{298}^0 = -169.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 197.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 169.37 + 2.43 \cdot 10^{-3} \cdot T - 3.52 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1938 K) [4]}$$

Si₂V (s)	Vanadium Silicide	Si₂V (s)
VSi ₂ (s)		VSi ₂ (s)

mp = 1950 K (1677 °C)

$$\Delta H_{298}^0 = -125.5 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 58.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [4]}$$

$$C_p^0 = 71.46 + 11.63 \cdot 10^{-3} \cdot T - 0.94 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 1950 K) [4]}$$

Si₂W (s)	Tungsten Silicide	Si₂W (s)
WSi ₂ (s)		WSi ₂ (s)

mp = 2437 K (2164 °C)

$$\Delta H_{298}^0 = -92.9 \text{ kJ}\cdot\text{mol}^{-1} \text{ [4]}$$

$$S_{298}^0 = 64 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ [2]}$$

$$C_p^0 = 67.82 + 11.05 \cdot 10^{-3} \cdot T - 0.61 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} \text{ (298 ... 2000 K) [4]}$$

Si₂Zr (s) ZrSi ₂ (s)	Zirconium Silicide	Si₂Zr (s) ZrSi ₂ (s)
$\Delta H_{298}^0 = -159.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 71.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 64.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Si₃ (g)	Silicon	Si₃ (g)
$\Delta H_{298}^0 = 636 \pm 42 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 267.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 55.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Si₃Ta₅ (s) Ta ₅ Si ₃ (s)	Tantalum Silicide	Si₃Ta₅ (s) Ta ₅ Si ₃ (s)
mp = 2770 K (2497 °C)		
$\Delta H_{298}^0 = -334.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 280.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 179.7 + 39.12 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Si₃Ti₅ (s) Ti ₅ Si ₃ (s)	Titanium Silicide	Si₃Ti₅ (s) Ti ₅ Si ₃ (s)
mp = 2403 K (2130 °C)		
$\Delta H_{298}^0 = -579.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 218 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 196.44 + 44.77 \cdot 10^{-3} \cdot T - 2.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Si₃U (s) USi ₃ (s)	Uranium Silicide	Si₃U (s) USi ₃ (s)
mp = 1783 K (1510 °C)		
$\Delta H_{298}^0 = -132.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 106.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 113.18 + 6.44 \cdot 10^{-3} \cdot T - 2.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1783 K) [4]		
Si₃V₅ (s) V ₅ Si ₃ (s)	Vanadium Silicide	Si₃V₅ (s) V ₅ Si ₃ (s)
mp = 2283 K (2010 °C)		
$\Delta H_{298}^0 = -462.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 208.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 188.45 + 118.83 \cdot 10^{-3} \cdot T - 1.73 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		

Si₃W₅ (s) W ₅ Si ₃ (s)	Tungsten Silicide	Si₃W₅ (s) W ₅ Si ₃ (s)
mp = 2597 K (2324 °C)		
$\Delta H_{298}^0 = -135.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 229.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 179.66 + 39.16 \cdot 10^{-3} \cdot T - 0.89 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Si₃Zr₅ (s) Zr ₅ Si ₃ (s)	Zirconium Silicide	Si₃Zr₅ (s) Zr ₅ Si ₃ (s)
$\Delta H_{298}^0 = -575.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 263.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 181.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Si₄ (g)	Silicon	Si₄ (g)
$\Delta H_{298}^0 = 646 \pm 22 \text{ kJ}\cdot\text{mol}^{-1}$ [251]		$S_{298}^0 = [292.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [15]
Si₅Th₃ (s) Th ₃ Si ₅ (s)	Thorium Silicide	Si₅Th₃ (s) Th ₃ Si ₅ (s)
mp = 2023 K (1750 °C)		
$\Delta H_{298}^0 = -486.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 213.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 196.1 + 35.82 \cdot 10^{-3} \cdot T - 2.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1993 K) [4]		
Si₅U₃ (s) U ₃ Si ₅ (s)	Uranium Silicide	Si₅U₃ (s) U ₃ Si ₅ (s)
$\Delta H_{298}^0 = -354.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 231.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 192.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Sm (s)	Samarium alpha	Sm (s)
mp = 1345 K (1072 °C)		bp = 2061 K (1788 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 69.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.57 + 10.25 \cdot 10^{-3} \cdot T - 0.95 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1190 K) [4]		
$\lg(p,K) = -11.23 \cdot 10^3 \cdot T^{-1} - 1.85 \cdot \lg(T) + 11.79$ (800 ... 1190 K) [4]		
{Reaction: evaporation as Sm(g)}		

Sm (s)	Samarium alpha	Sm (s)
$\Delta H^0_{1190} = 37 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1190} = 124.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 48.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1190 K) [4]		
Sm (s)	Samarium beta	Sm (s)
$\Delta H^0_{1190} = 40.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1190} = 126.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1190 K) [4]		
$\lg(p,K) = -11.19 \cdot 10^3 \cdot T^{-1} - 2.1 \cdot \lg(T) + 12.52$ (1190 ... 1345 K) [4]		
{Reaction: evaporation as Sm(g)}		
Sm (s)	Samarium beta	Sm (s)
$\Delta H^0_{1345} = 47.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1345} = 132.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1345 K) [4]		
Sm (l)	Samarium	Sm (l)
$\Delta H^0_{1345} = 56 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1345} = 139 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 50.21 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1345 K) [4]		
$\lg(p,K) = -11.11 \cdot 10^3 \cdot T^{-1} - 2.71 \cdot \lg(T) + 14.37$ (1345 ... 2061 K) [4]		
{Reaction: evaporation as Sm(g)}		
Sm (g)	Samarium	Sm (g)
$\Delta H^0_{298} = 206.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 183 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.15 - 0.49 \cdot 10^{-3} \cdot T - 0.16 \cdot 10^6 \cdot T^{-2} - 1.18 \cdot 10^{-6} \cdot T^2$ J·mol ⁻¹ ·K ⁻¹ (298 ... 2100 K) [4]		
SmTe (s)	Samarium Telluride	SmTe (s)
$\Delta H^0_{298} = [-309.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

SmTe (g)	Samarium Telluride	SmTe (g)
$\Delta H_{298}^0 = [184.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [287] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.37] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
Sm₂Te₃ (s)	Samarium Telluride	Sm₂Te₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [265.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Sn (s)	Tin beta	Sn (s)
mp = 505 K (232 °C)		bp = 2878 K (2605 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 51.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.59 + 18.16 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 505 K) [4]		
Sn (s)	Tin beta	Sn (s)
$\Delta H_{505}^0 = 6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{505}^0 = 66.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 30.76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (505 K) [4]		
Sn (l)	Tin	Sn (l)
$\Delta H_{505}^0 = 13 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{505}^0 = 80.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.69 + 6.15 \cdot 10^{-3} \cdot T + 1.29 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (505 ... 700 K) [4]		
$\lg(p, K) = -15.27 \cdot 10^3 \cdot T^{-1} + 0.25 \cdot \lg(T) + 4.46$ (1100 ... 2000 K) [4]		
{Reaction: evaporation as Sn(g)}		
Sn (g)	Tin	Sn (g)
$\Delta H_{298}^0 = 301.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 168.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 31.59 + 2.03 \cdot 10^{-3} \cdot T - 1.13 \cdot 10^6 \cdot T^{-2} - 1.37 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		

SnTe (s)	Tin(II) Telluride	SnTe (s)
mp = 1079 K (806 °C)		
$\Delta H_{298}^0 = -60.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 98.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 47.95 + 11.8 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1079 K) [4]		
$\lg(p,K) = -11.74 \cdot 10^3 \cdot T^{-1} - 2.55 \cdot \lg(T) + 16.19$ (700 ... 1079 K) [4]		
{Reaction: evaporation as SnTe(g)}		
SnTe (s)	Tin(II) Telluride	SnTe (s)
$\Delta H_{1079}^0 = -16.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1079}^0 = 169.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
SnTe (l)	Tin(II) Telluride	SnTe (l)
$\Delta H_{1079}^0 = 20.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1079}^0 = 204.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 61.92 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1079 K) [4]		
$\lg(p,K) = -9.95 \cdot 10^3 \cdot T^{-1} - 2.96 \cdot \lg(T) + 15.78$ (1079 ... 1577 K) [4]		
{Reaction: evaporation as SnTe(g)}		
SnTe (g)	Tin(II) Telluride	SnTe (g)
$\Delta H_{298}^0 = 155.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 262.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.41 - 0.09 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
SnTe₂ (g)	Tin(IV) Telluride	SnTe₂ (g)
$\Delta H_{298}^0 = 171.5 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [333.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Sn₂Te₂ (g)	Tin(II) Telluride	Sn₂Te₂ (g)
$\Delta H_{298}^0 = 123.8 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 350.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Sr (s)	Strontium alpha	Sr (s)
mp = 1050 K (777 °C)		bp = 1685 K (1412 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 55.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 22.22 + 13.89 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 820 K) [4]		
$\lg(p,K) = -8.78 \cdot 10^3 \cdot T^{-1} - 1.36 \cdot \lg(T) + 9.79$ (600 ... 820 K) [4]		
{Reaction: evaporation as Sr(g)}		
Sr (s)	Strontium alpha	Sr (s)
$\Delta H_{820}^0 = 15.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{820}^0 = 85.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (820 K) [4]		
Sr (s)	Strontium beta	Sr (s)
$\Delta H_{820}^0 = 16.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{820}^0 = 86.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = -59.76 + 62.99 \cdot 10^{-3} \cdot T + 27.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (820 ... 1050 K) [4]		
$\lg(p,K) = -8.71 \cdot 10^3 \cdot T^{-1} - 1.29 \cdot \lg(T) + 9.51$ (820 ... 1050 K) [4]		
{Reaction: evaporation as Sr(g)}		
Sr (s)	Strontium beta	Sr (s)
$\Delta H_{1050}^0 = 23.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1050}^0 = 94 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 30.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1050 K) [4]		
Sr (l)	Strontium	Sr (l)
$\Delta H_{1050}^0 = 30.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1050}^0 = 101.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1050 K) [4]		
$\lg(p,K) = -8.77 \cdot 10^3 \cdot T^{-1} - 2.25 \cdot \lg(T) + 12.46$ (1050 ... 1685 K) [4]		
{Reaction: evaporation as Sr(g)}		
Sr (l)	Strontium	Sr (l)
$\Delta H_{1685}^0 = 56 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1685}^0 = 119.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.46 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1685 K) [4]		

Sr (g)	Strontium	Sr (g)
$\Delta H_{1685}^0 = 192.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1685}^0 = 200.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1685 K) [4]		
Sr (s)	Strontium beta	Sr (s)
$\Delta H_{298}^0 = 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 57.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Sr (l)	Strontium	Sr (l)
$\Delta H_{298}^0 = 0.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 39.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Sr (g)	Strontium	Sr (g)
$\Delta H_{298}^0 = 164 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 164.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
SrTe (s)	Strontium Telluride	SrTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [87.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ta (s)	Tantalum	Ta (s)
mp = 3258 K (2985 °C)		bp = 5778 K (5505 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.97 + 3.06 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -41.1 \cdot 10^3 \cdot T^{-1} - 0.17 \cdot \lg(T) + 8$ (298 ... 3258 K) [4]		
{Reaction: evaporation as Ta(g)}		
Ta (l)	Tantalum	Ta (l)
$\Delta H_{298}^0 = 30.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3250 ... 4000 K) [3]		
$\lg(p, K) = -39.39 \cdot 10^3 \cdot T^{-1} - 0.25 \cdot \lg(T) + 7.76$ (3258 ... 5778 K) [4]		
{Reaction: evaporation as Ta(g)}		

Sr (g)	Strontium	Sr (g)
$\Delta H_{1685}^0 = 192.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1685}^0 = 200.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1685 K) [4]		
Sr (s)	Strontium beta	Sr (s)
$\Delta H_{298}^0 = 1.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 57.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 27.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Sr (l)	Strontium	Sr (l)
$\Delta H_{298}^0 = 0.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 39.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Sr (g)	Strontium	Sr (g)
$\Delta H_{298}^0 = 164 \pm 1.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 164.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
SrTe (s)	Strontium Telluride	SrTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [87.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Ta (s)	Tantalum	Ta (s)
mp = 3258 K (2985 °C)		bp = 5778 K (5505 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.5 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 24.97 + 3.06 \cdot 10^{-3} \cdot T - 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -41.1 \cdot 10^3 \cdot T^{-1} - 0.17 \cdot \lg(T) + 8$ (298 ... 3258 K) [4]		
{Reaction: evaporation as Ta(g)}		
Ta (l)	Tantalum	Ta (l)
$\Delta H_{298}^0 = 30.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 41.84 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (3250 ... 4000 K) [3]		
$\lg(p, K) = -39.39 \cdot 10^3 \cdot T^{-1} - 0.25 \cdot \lg(T) + 7.76$ (3258 ... 5778 K) [4]		
{Reaction: evaporation as Ta(g)}		

Ta (g) Tantalum **Ta (g)**

$$\Delta H_{298}^0 = 782 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 186.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [4]$$

$$C_p^0 = 22.38 + 5.86 \cdot 10^{-3} \cdot T - 0.44 \cdot 10^{-6} \cdot T^{-2} - 0.41 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

Tb (s) Terbium
alpha **Tb (s)**

$$\text{mp} = 1630 \text{ K} (1357 \text{ }^\circ\text{C}) \qquad \text{bp} = 3492 \text{ K} (3219 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 73.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 20.82 + 11.39 \cdot 10^{-3} \cdot T + 0.39 \cdot 10^{-6} \cdot T^{-2} + 3.23 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1560 \text{ K}) [4]$$

$$\lg(p, K) = -21.05 \cdot 10^3 \cdot T^{-1} - 2.05 \cdot \lg(T) + 13.54 (1400 \dots 1560 \text{ K}) [4]$$

{Reaction: evaporation as Tb(g)}

Tb (s) Terbium
alpha **Tb (s)**

$$\Delta H_{1560}^0 = 44.8 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1560}^0 = 128.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.61 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1560 \text{ K}) [4]$$

Tb (s) Terbium
beta **Tb (s)**

$$\Delta H_{1560}^0 = 49.8 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1560}^0 = 131.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 27.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1560 \text{ K}) [4]$$

$$\lg(p, K) = -19.35 \cdot 10^3 \cdot T^{-1} + 0.08 \cdot \lg(T) + 5.65 (1560 \dots 1630 \text{ K}) [4]$$

{Reaction: evaporation as Tb(g)}

Tb (s) Terbium
beta **Tb (s)**

$$\Delta H_{1630}^0 = 51.7 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1630}^0 = 132.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 27.74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1630 \text{ K}) [4]$$

Tb (l) Terbium **Tb (l)**

$$\Delta H_{1630}^0 = 62.5 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{1630}^0 = 139.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 46.48 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1630 \text{ K}) [4]$$

$$\lg(p, K) = -20.32 \cdot 10^3 \cdot T^{-1} - 2.07 \cdot \lg(T) + 13.15 (1630 \dots 2000 \text{ K}) [4]$$

{Reaction: evaporation as Tb(g)}

Tb (g)	Terbium	Tb (g)
$\Delta H_{298}^0 = 388.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 203.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 21.08 + 4.54 \cdot 10^{-3} \cdot T + 0.2 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
TbTe (s)	Terbium Telluride	TbTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TbTe (g)	Terbium Telluride	TbTe (g)
$\Delta H_{298}^0 = 268.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 286.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [2]		
Tb₂Te₃ (s)	Terbium Telluride	Tb₂Te₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [263.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Tc (s)	Technetium	Tc (s)
mp = 2473 K (2200 °C)		bp = 4535 K (4262 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 33.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 23.75 + 5.41 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2473 K) [4]		
$\lg(p, K) = -36.1 \cdot 10^3 \cdot T^{-1} - 0.76 \cdot \lg(T) + 10.29$ (2200 ... 2473 K) [4]		
{Reaction: evaporation as Tc(g)}		
Tc (s)	Technetium	Tc (s)
$\Delta H_{2473}^0 = 72.5 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2473}^0 = 97.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2473 K) [2]		
Tc (l)	Technetium	Tc (l)
$\Delta H_{2473}^0 = 96.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{2473}^0 = 107.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2473 ... 4900 K) [2]		

Tc (g)	Technetium	Tc (g)
$\Delta H_{298}^0 = 681.1 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 181 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 8.39 + 26.9 \cdot 10^{-3} \cdot T + 0.44 \cdot 10^6 \cdot T^{-2} - 7.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2473 K) [4]		
Te (s)	Tellurium	Te (s)
mp = 723 K (450 °C)		bp = 1262 K (989 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 49.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 19.12 + 22.09 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 723 K) [4]		
Te (s)	Tellurium	Te (s)
$\Delta H_{723}^0 = 12.9 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{723}^0 = 76 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 35.09 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (723 K) [4]		
Te (l)	Tellurium	Te (l)
$\Delta H_{723}^0 = 29.5 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{723}^0 = 100 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.66 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (723 K) [4]		
Te (g)	Tellurium	Te (g)
$\Delta H_{298}^0 = 211.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 182.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 19.41 + 1.84 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -10.59 \cdot 10^3 \cdot T^{-1} - 1.96 \cdot \lg(T) + 11.78$ (723 ... 1262 K) [4]		
{Reaction: evaporation of Te(l)}		
TeTh (s) ThTe (s)	Thorium Telluride	TeTh (s) ThTe (s)
$\Delta H_{298}^0 = [-242.7] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [96.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeTi (s) TiTe (s)	Titanium Telluride	TeTi (s) TiTe (s)
$\Delta H_{298}^0 = -120.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [83.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

TeTi (g) TiTe (g)	Titanium Telluride	TeTi (g) TiTe (g)
$\Delta H_{298}^0 = 395.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [266.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeTi₂ (s) Ti ₂ Te (s)	Titanium Telluride	TeTi₂ (s) Ti ₂ Te (s)
$\Delta H_{298}^0 = -112.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [128] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeTl (s) TlTe (s)	Thallium Telluride	TeTl (s) TlTe (s)
$\Delta H_{298}^0 = -43.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 110.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeTl₂ (s) Tl ₂ Te (s)	Thallium Telluride	TeTl₂ (s) Tl ₂ Te (s)
mp = 726 K (453 °C) $\Delta H_{298}^0 = -80.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2] $C_p^0 = 67.99 + 27.2 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 726 K) [4]		$S_{298}^0 = 174.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
TeTm (s) TmTe (s)	Thulium Telluride	TeTm (s) TmTe (s)
$\Delta H_{298}^0 = [-313.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [97.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeTm (g) TmTe (g)	Thulium Telluride	TeTm (g) TmTe (g)
$\Delta H_{298}^0 = [272.8] \text{ kJ}\cdot\text{mol}^{-1}$ [5] $C_p^0 = [37.38] + [0.02] \cdot 10^{-3} \cdot T + [-0.10] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		$S_{298}^0 = [277.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeU (s) UTe (s)	Uranium Telluride	TeU (s) UTe (s)
$\Delta H_{298}^0 = -182.4 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [107.5] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

TeU (g) UTe (g)	Uranium Telluride	TeU (g) UTe (g)
$\Delta H_{298}^0 = [437.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [282.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.35] + [0.03] \cdot 10^{-3} \cdot T + [-0.13] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
TeV (g) VTe (g)	Vanadium Telluride	TeV (g) VTe (g)
$\Delta H_{298}^0 = [434.3] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [268.9] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.33] + [0.05] \cdot 10^{-3} \cdot T + [-0.16] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
TeY (s) YTe (s)	Yttrium Telluride	TeY (s) YTe (s)
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [86.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeY (g) YTe (g)	Yttrium Telluride	TeY (g) YTe (g)
$\Delta H_{298}^0 = [292.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [264.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.37] + [0.02] \cdot 10^{-3} \cdot T + [-0.12] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
TeYb (s) YbTe (s)	Ytterbium Telluride	TeYb (s) YbTe (s)
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [88.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
TeYb (g) YbTe (g)	Ytterbium Telluride	TeYb (g) YbTe (g)
$\Delta H_{298}^0 = [263.6] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [275.7] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
$C_p^0 = [37.39] + [0.01] \cdot 10^{-3} \cdot T + [-0.08] \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [5]		
TeZn (s) ZnTe (s)	Zinc Telluride	TeZn (s) ZnTe (s)
mp = 1570 K (1297 °C)		
$\Delta H_{298}^0 = -119.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 77.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 44.1 + 18.74 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1570 K) [4]		

TeZn (g) ZnTe (g)	Zinc Telluride	TeZn (g) ZnTe (g)
$\Delta H_{298}^0 = 255.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 257.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.39 + 0.01 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Te₂ (g)	Tellurium	Te₂ (g)
$\Delta H_{298}^0 = 160.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 262.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.64 + 6.62 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
$\lg(p, K) = -7.42 \cdot 10^3 \cdot T^{-1} - 4.11 \cdot \lg(T) + 18.63$ (723 ... 1262 K) [4]		
{Reaction: evaporation of Te(l)}		
Te₂Th (s) ThTe ₂ (s)	Thorium Telluride	Te₂Th (s) ThTe ₂ (s)
$\Delta H_{298}^0 = [-364] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [138.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₂Ti (s) TiTe ₂ (s)	Titanium Telluride	Te₂Ti (s) TiTe ₂ (s)
$\Delta H_{298}^0 = -212.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [117.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₂U (s) UTe ₂ (s)	Uranium Telluride alpha	Te₂U (s) UTe ₂ (s)
$\Delta H_{298}^0 = [-318] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [150.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₂W (s) WTe ₂ (s)	Tungsten Telluride	Te₂W (s) WTe ₂ (s)
$\Delta H_{298}^0 = [-133.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [104.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₂Zr (s) ZrTe ₂ (s)	Zirconium Telluride	Te₂Zr (s) ZrTe ₂ (s)
$\Delta H_{298}^0 = [-301.2] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [108.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Te₃Th₂ (s) Th ₂ Te ₃ (s)	Thorium Telluride	Te₃Th₂ (s) Th ₂ Te ₃ (s)
$\Delta H_{298}^0 = -627.6 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [234.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃Tl₂ (s) Tl ₂ Te ₃ (s)	Thallium Telluride	Te₃Tl₂ (s) Tl ₂ Te ₃ (s)
$\Delta H_{298}^0 = -89.9 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = 114.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃Tm₂ (s) Tm ₂ Te ₃ (s)	Thulium Telluride	Te₃Tm₂ (s) Tm ₂ Te ₃ (s)
$\Delta H_{298}^0 = [-815.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [253.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃U (s) UTe ₃ (s)	Uranium Telluride	Te₃U (s) UTe ₃ (s)
$\Delta H_{298}^0 = [-272] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [191.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃U₂ (s) U ₂ Te ₃ (s)	Uranium Telluride	Te₃U₂ (s) U ₂ Te ₃ (s)
$\Delta H_{298}^0 = [-523] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [265.3] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃Y₂ (s) Y ₂ Te ₃ (s)	Yttrium Telluride	Te₃Y₂ (s) Y ₂ Te ₃ (s)
$\Delta H_{298}^0 = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [200.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₃Zr (s) ZrTe ₃ (s)	Zirconium Telluride	Te₃Zr (s) ZrTe ₃ (s)
$\Delta H_{298}^0 = [-292.9] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S_{298}^0 = [138.1] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]

Te₄U₃ (s) U ₃ Te ₄ (s)	Uranium Telluride	Te₄U₃ (s) U ₃ Te ₄ (s)
$\Delta H^0_{298} = -684.1 \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [377.8] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₄Zr₅ (s) Zr ₅ Te ₄ (s)	Zirconium Telluride	Te₄Zr₅ (s) Zr ₅ Te ₄ (s)
$\Delta H^0_{298} = -829 \pm 44 \text{ kJ}\cdot\text{mol}^{-1}$ [80]		$S^0_{298} = 330 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [80]
Te₅U₃ (s) U ₃ Te ₅ (s)	Uranium Telluride	Te₅U₃ (s) U ₃ Te ₅ (s)
$\Delta H^0_{298} = [-669.4] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [399.6] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Te₇U₃ (s) U ₃ Te ₇ (s)	Uranium Telluride	Te₇U₃ (s) U ₃ Te ₇ (s)
$\Delta H^0_{298} = [-795] \text{ kJ}\cdot\text{mol}^{-1}$ [5]		$S^0_{298} = [481.2] \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [5]
Th (s)	Thorium alpha	Th (s)
mp = 2023 K (1750 °C)		bp = 5056 K (4783 °C)
$\Delta H^0_{298} = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 53.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 25.35 + 7.92 \cdot 10^{-3} \cdot T - 0.03 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1633 K) [4]		
Th (s)	Thorium alpha	Th (s)
$\Delta H^0_{1633} = 43.9 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1633} = 106.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 38.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1633 K) [4]		
Th (s)	Thorium beta	Th (s)
$\Delta H^0_{1633} = 47.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1633} = 109.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 15.94 + 11.87 \cdot 10^{-3} \cdot T - 0.23 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1633 ... 2023 K) [4]		

Th (s)	Thorium beta	Th (s)
$\Delta H_{2023}^0 = 62.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2023}^0 = 117.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 39.89 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2023 K) [4]		
Th (l)	Thorium	Th (l)
$\Delta H_{2023}^0 = 76 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2023}^0 = 123.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 46.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2023 K) [4]		
$\lg(p,K) = -29.03 \cdot 10^3 \cdot T^{-1} - 1.08 \cdot \lg(T) + 9.74$ (2023 ... 2500 K) [4]		
{Reaction: evaporation as Th(g)}		
Th (g)	Thorium	Th (g)
$\Delta H_{298}^0 = 577.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{298}^0 = 190.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 13.64 + 12.76 \cdot 10^{-3} \cdot T + 0.3 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
Ti (s)	Titanium alpha	Ti (s)
mp = 1939 K (1666 °C)		bp = 3631 K (3358 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 30.8 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 22.24 + 10.21 \cdot 10^{-3} \cdot T - 0.01 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1166 K) [4]		
Ti (s)	Titanium alpha	Ti (s)
$\Delta H_{1166}^0 = 25.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1166}^0 = 69.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 34.13 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1166 K) [4]		
Ti (s)	Titanium beta	Ti (s)
$\Delta H_{1166}^0 = 26.8 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1166}^0 = 70.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 17.41 + 10.31 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1166 ... 1939 K) [4]		
$\lg(p,K) = -25.11 \cdot 10^3 \cdot T^{-1} - 1.43 \cdot \lg(T) + 12.35$ (1500 ... 1939 K) [4]		
{Reaction: evaporation as Ti(g)}		

Ti (s)	Titanium beta	Ti (s)
$\Delta H^0_{1939} = 52.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1939} = 87.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 37.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1939 K) [4]		
Ti (l)	Titanium	Ti (l)
$\Delta H^0_{1939} = 66.7 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{1939} = 94.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 47.24 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1939 K) [4]		
$\lg(p,K) = -24.91 \cdot 10^3 \cdot T^{-1} - 2.52 \cdot \lg(T) + 15.83$ (1939 ... 2500 K) [4]		
{Reaction: evaporation as Ti(g)}		
Ti (s)	Titanium beta	Ti (s)
$\Delta H^0_{298} = 6.9 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 38.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 17.41 + 10.31 \cdot 10^{-3} \cdot T - 0.1 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1166 ... 1939 K) [4]		
Ti (g)	Titanium	Ti (g)
$\Delta H^0_{298} = 473.6 \pm 16.7 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 180.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 23.33 - 5.03 \cdot 10^{-3} \cdot T + 0.21 \cdot 10^6 \cdot T^{-2} + 2.81 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		
Tl (s)	Thallium alpha	Tl (s)
mp = 577 K (304 °C)		bp = 1744 K (1471 °C)
$\Delta H^0_{298} = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 64.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 28.39 - 20.34 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 507 K) [4]		
Tl (s)	Thallium alpha	Tl (s)
$\Delta H^0_{507} = 5.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{507} = 78.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 29.63 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (507 K) [4]		

Tl (s)	Thallium beta	Tl (s)
$\Delta H_{507}^0 = 6.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{507}^0 = 79.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 27.15 + 9.58 \cdot 10^{-3} \cdot T \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (507 ... 577 K) [4]		
Tl (s)	Thallium beta	Tl (s)
$\Delta H_{577}^0 = 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{577}^0 = 83.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 32.68 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (577 K) [4]		
Tl (l)	Thallium	Tl (l)
$\Delta H_{577}^0 = 12.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{577}^0 = 90.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 29.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (577 ... 1744 K) [4]		
$\lg(p,K) = -9.32 \cdot 10^3 \cdot T^{-1} - 1.01 \cdot \lg(T) + 8.62$ (700 ... 1744 K) [4]		
{Reaction: evaporation as Tl(g)}		
Tl (g)	Thallium	Tl (g)
$\Delta H_{298}^0 = 181 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 181 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 19.73 + 1.12 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2000 K) [4]		
Tm (s)	Thulium	Tm (s)
mp = 1818 K (1545 °C)		bp = 2217 K (1944 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 74 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.87 + 8.18 \cdot 10^{-3} \cdot T + 0.13 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1818 K) [4]		
$\lg(p,K) = -12.54 \cdot 10^3 \cdot T^{-1} - 1.65 \cdot \lg(T) + 11.27$ (900 ... 1818 K) [4]		
{Reaction: evaporation as Tm(g)}		
Tm (s)	Thulium	Tm (s)
$\Delta H_{1818}^0 = 48.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1818}^0 = 128.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.77 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1818 K) [4]		

Tm (l)	Thulium	Tm (l)
$\Delta H_{1818}^0 = 65.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1818}^0 = 137.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 41.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1818 K) [4]		
Tm (g)	Thulium	Tm (g)
$\Delta H_{298}^0 = 232.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 190.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 22.52 - 2.24 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^6 \cdot T^{-2} + 0.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2217 K) [4]		
U (s)	Uranium alpha	U (s)
mp = 1405 K (1132 °C)		bp = 4440 K (4167 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 50.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 27.59 - 4.04 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^6 \cdot T^{-2} + 27.49 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 941 K) [4]		
U (s)	Uranium alpha	U (s)
$\Delta H_{941}^0 = 23.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{941}^0 = 89.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 48.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (941 K) [4]		
U (s)	Uranium beta	U (s)
$\Delta H_{941}^0 = 26.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{941}^0 = 92.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (941 K) [4]		
U (s)	Uranium beta	U (s)
$\Delta H_{1048}^0 = 30.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1048}^0 = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 42.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1048 K) [4]		

Tm (l)	Thulium	Tm (l)
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$$\Delta H_{1818}^0 = 65.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1818}^0 = 137.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 41.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1818 \text{ K}) [4]$$

Tm (g)	Thulium	Tm (g)
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$$\Delta H_{298}^0 = 232.2 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 190.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 22.52 - 2.24 \cdot 10^{-3} \cdot T - 0.32 \cdot 10^{-6} \cdot T^{-2} + 0.83 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2217 \text{ K}) [4]$$

U (s)	Uranium alpha	U (s)
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$$\text{mp} = 1405 \text{ K} (1132 \text{ }^\circ\text{C})$$

$$\text{bp} = 4440 \text{ K} (4167 \text{ }^\circ\text{C})$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{298}^0 = 50.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 27.59 - 4.04 \cdot 10^{-3} \cdot T - 0.11 \cdot 10^{-6} \cdot T^{-2} + 27.49 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 941 \text{ K}) [4]$$

U (s)	Uranium alpha	U (s)
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$$\Delta H_{941}^0 = 23.3 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{941}^0 = 89.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 48.01 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (941 \text{ K}) [4]$$

U (s)	Uranium beta	U (s)
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$$\Delta H_{941}^0 = 26.1 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{941}^0 = 92.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 42.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (941 \text{ K}) [4]$$

U (s)	Uranium beta	U (s)
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$$\Delta H_{1048}^0 = 30.7 \text{ kJ}\cdot\text{mol}^{-1} [2]$$

$$S_{1048}^0 = 97.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 42.93 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (1048 \text{ K}) [4]$$

U (s)	Uranium gamma	U (s)
$\Delta H^0_{1048} = 35.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1048} = 101.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1048 K) [4]		
U (s)	Uranium gamma	U (s)
$\Delta H^0_{1405} = 49.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1505} = 113.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 38.28 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1405 K) [4]		
U (l)	Uranium	U (l)
$\Delta H^0_{1405} = 57.6 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1405} = 119.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 47.91 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1405 K) [4]		
$\lg(p,K) = -26.45 \cdot 10^3 \cdot T^{-1} - 1.54 \cdot \lg(T) + 11.58$ (1700 ... 3000 K) [4]		
{Reaction: evaporation as U(g)}		
U (g)	Uranium	U (g)
$\Delta H^0_{298} = 521.2 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S^0_{298} = 199.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 13.6 + 11.88 \cdot 10^{-3} \cdot T + 0.71 \cdot 10^6 \cdot T^{-2} - 1.11 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 3000 K) [4]		
V (s)	Vanadium	V (s)
mp = 2190 K (1917 °C)		bp = 3690 K (3417 °C)
$\Delta H^0_{298} = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 28.9 \pm 0.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 26.81 - 0.13 \cdot 10^{-3} \cdot T - 0.19 \cdot 10^6 \cdot T^{-2} + 3.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2190 K) [4]		
$\lg(p,K) = -27.89 \cdot 10^3 \cdot T^{-1} - 1.84 \cdot \lg(T) + 14.38$ (1600 ... 2190 K) [4]		
{Reaction: evaporation as V(g)}		
V (l)	Vanadium	V (l)
$\Delta H^0_{298} = 17.3 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S^0_{298} = 36.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 47.49 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2190 ... 2600 K) [3]		

V (g) Vanadium **V (g)**

$$\Delta H_{298}^0 = 515.5 \pm 8 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 182.3 \pm 0.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 20.36 + 6.7 \cdot 10^{-3} \cdot T + 0.34 \cdot 10^6 \cdot T^{-2} - 2.44 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 2000 \text{ K}) [4]$$

W (s) Tungsten **W (s)**

$$\text{mp} = 3680 \text{ K (3407 } ^\circ\text{C)} \qquad \text{bp} = 5828 \text{ K (5555 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 32.7 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 24.49 + 2.74 \cdot 10^{-3} \cdot T - 0.08 \cdot 10^6 \cdot T^{-2} + 0.17 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3680 \text{ K}) [4]$$

$$\lg(p, K) = -42.99 \cdot 10^3 \cdot T^{-1} + 0.46 \cdot \lg(T) + 5.75 (2700 \dots 3680 \text{ K}) [4]$$

{Reaction: evaporation as W(g)}

W (l) Tungsten **W (l)**

$$\Delta H_{298}^0 = 46.9 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 45.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 24.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

W (g) Tungsten **W (g)**

$$\Delta H_{298}^0 = 829 \text{ kJ}\cdot\text{mol}^{-1} [4] \qquad S_{298}^0 = 174 \pm 0.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 27.65 + 1.43 \cdot 10^{-3} \cdot T - 0.55 \cdot 10^6 \cdot T^{-2} + 0.64 \cdot 10^{-6} \cdot T^2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 3680 \text{ K}) [4]$$

Xe (g) Xenon **Xe (g)**

$$\text{mp} = 161 \text{ K (-112 } ^\circ\text{C)} \qquad \text{bp} = 165 \text{ K (-108 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [1] \qquad S_{298}^0 = 169.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [1]$$

$$C_p^0 = 20.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \text{ K}) [1]$$

Y (s) Yttrium
alpha **Y (s)**

$$\text{mp} = 1799 \text{ K (1526 } ^\circ\text{C)} \qquad \text{bp} = 3607 \text{ K (3334 } ^\circ\text{C)}$$

$$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1} [2] \qquad S_{298}^0 = 44.4 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} [2]$$

$$C_p^0 = 23.39 + 7.95 \cdot 10^{-3} \cdot T + 0.12 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1} (298 \dots 1752 \text{ K}) [4]$$

$$\lg(p, K) = -22.82 \cdot 10^3 \cdot T^{-1} - 1.75 \cdot \lg(T) + 12.84 (1400 \dots 1752 \text{ K}) [4]$$

{Reaction: evaporation as Y(g)}

Y (s)	Yttrium alpha	Y (s)
$\Delta H^0_{1752} = 46.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1752} = 98 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 37.36 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1752 K) [4]		
Y (s)	Yttrium beta	Y (s)
$\Delta H^0_{1752} = 51.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1752} = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1752 K) [4]		
$\lg(p, K) = -22.45 \cdot 10^3 \cdot T^{-1} - 1.62 \cdot \lg(T) + 12.21$ (1752 ... 1799 K) [4]		
{Reaction: evaporation as Y(g)}		
Y (s)	Yttrium beta	Y (s)
$\Delta H^0_{1799} = 52.8 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1799} = 101.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 35.02 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1799 K) [4]		
Y (l)	Yttrium	Y (l)
$\Delta H^0_{1799} = 64.2 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{1799} = 108.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 39.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1799 K) [4]		
$\lg(p, K) = -22.29 \cdot 10^3 \cdot T^{-1} - 2.17 \cdot \lg(T) + 13.91$ (1799 ... 2000 K) [4]		
{Reaction: evaporation as Y(g)}		
Y (g)	Yttrium	Y (g)
$\Delta H^0_{298} = 424.7 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 179.5 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 27.18 - 7.87 \cdot 10^{-3} \cdot T + 0.08 \cdot 10^{-6} \cdot T^{-2} + 2.63 \cdot 10^{-6} \cdot T^2$ (298 ... 2000 K) [4]		
Yb (s)	Ytterbium alpha	Yb (s)
mp = 1097 K (824 °C)		bp = 1465 K (1192 °C)
$\Delta H^0_{298} = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S^0_{298} = 59.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 25.65 + 6.84 \cdot 10^{-3} \cdot T$ (298 ... 1033 K) [4]		
$\lg(p, K) = -8.16 \cdot 10^3 \cdot T^{-1} - 1.26 \cdot \lg(T) + 9.69$ (600 ... 1033 K) [4]		
{Reaction: evaporation as Yb(g)}		

Yb (s)	Ytterbium alpha	Yb (s)
$\Delta H_{1033}^0 = 22.3 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1033}^0 = 96.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 32.71 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1033 K) [4]		
Yb (s)	Ytterbium beta	Yb (s)
$\Delta H_{1033}^0 = 24.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1033}^0 = 98.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1033 K) [4]		
Yb (s)	Ytterbium beta	Yb (s)
$\Delta H_{1097}^0 = 26.4 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1097}^0 = 100.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.11 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1097 K) [4]		
Yb (l)	Ytterbium	Yb (l)
$\Delta H_{1097}^0 = 34 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{1097}^0 = 107.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 36.78 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1097 K) [4]		
$\lg(p, K) = -7.96 \cdot 10^3 \cdot T^{-1} - 1.92 \cdot \lg(T) + 11.51$ (1097 ... 1465 K) [4]		
{Reaction: evaporation as Yb(g)}		
Yb (g)	Ytterbium	Yb (g)
$\Delta H_{298}^0 = 152.1 \text{ kJ}\cdot\text{mol}^{-1}$ [2]		$S_{298}^0 = 173.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [2]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Zn (s)	Zinc	Zn (s)
mp = 693 K (420 °C)		bp = 1179 K (906 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 41.7 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 21.33 + 11.65 \cdot 10^{-3} \cdot T + 0.05 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 693 K) [4]		
$\lg(p, K) = -6.96 \cdot 10^3 \cdot T^{-1} - 0.92 \cdot \lg(T) + 8.97$ (500 ... 693 K) [4]		
{Reaction: evaporation as Zn(g)}		

Zn (l)	Zinc	Zn (l)
$\Delta H_{298}^0 = 6.5 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 50.8 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 31.38 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (693 K) [4]		
$\lg(p,K) = -6.68 \cdot 10^3 \cdot T^{-1} - 1.27 \cdot \lg(T) + 9.56$ (693 ... 1179 K) [4]		
{Reaction: evaporation as Zn(g)}		
Zn (g)	Zinc	Zn (g)
$\Delta H_{298}^0 = 130.4 \pm 0.2 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 161 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 20.79 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [4]		
Zr (s)	Zirconium alpha	Zr (s)
mp = 2125 K (1852 °C)		bp = 4630 K (4357 °C)
$\Delta H_{298}^0 = 0 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 38.9 \pm 0.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 22.86 + 8.97 \cdot 10^{-3} \cdot T - 0.07 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 1136 K) [4]		
Zr (s)	Zirconium alpha	Zr (s)
$\Delta H_{1136}^0 = 24.4 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1136}^0 = 76.7 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 32.99 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1136 K) [4]		
Zr (s)	Zirconium beta	Zr (s)
$\Delta H_{1136}^0 = 28.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{1136}^0 = 80.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 21.49 + 6.57 \cdot 10^{-3} \cdot T + 3.67 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (1136 ... 2125 K) [4]		
$\lg(p,K) = -31.52 \cdot 10^3 \cdot T^{-1} - 0.79 \cdot \lg(T) + 9.92$ (2000 ... 2125 K) [4]		
{Reaction: evaporation as Zr(g)}		
Zr (s)	Zirconium beta	Zr (s)
$\Delta H_{2125}^0 = 61.6 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2125}^0 = 101.1 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 36.27 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2125 K) [4]		

Zr (l)	Zirconium	Zr (l)
$\Delta H_{2125}^0 = 80.3 \text{ kJ}\cdot\text{mol}^{-1}$ [4]		$S_{2125}^0 = 109.9 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [4]
$C_p^0 = 33.47 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (2125 K) [4]		
$\lg(p,K) = -29.79 \cdot 10^3 \cdot T^{-1} - 0.12 \cdot \lg(T) + 6.87$ (2125 ... 2500 K) [4]		
{Reaction: evaporation as Zr(g)}		
Zr (s)	Zirconium beta	Zr (s)
$\Delta H_{298}^0 = 4.8 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 43.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 25.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Zr (l)	Zirconium	Zr (l)
$\Delta H_{298}^0 = 17.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 47.6 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 25.2 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 K) [1]		
Zr (g)	Zirconium	Zr (g)
$\Delta H_{298}^0 = 610 \pm 8.4 \text{ kJ}\cdot\text{mol}^{-1}$ [1]		$S_{298}^0 = 181.3 \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ [1]
$C_p^0 = 23 + 3.05 \cdot 10^{-3} \cdot T + 0.36 \cdot 10^6 \cdot T^{-2} \text{ J}\cdot\text{mol}^{-1}\cdot\text{K}^{-1}$ (298 ... 2500 K) [4]		

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$\text{AsCu}_3\text{O}_4(\text{s})$	Cu_3AsO_4	68	$\text{As}_2\text{S}_3(\text{s})$		80
$\text{AsF}_3(\text{l})$		68	$\text{As}_2\text{S}_3(\text{l})$		80
$\text{AsF}_3(\text{g})$		68	$\text{As}_2\text{Se}_3(\text{s})$		80
$\text{AsF}_5(\text{g})$		69	$\text{As}_2\text{Se}_3(\text{l})$		80
$\text{AsFeO}_4(\text{s})$	FeAsO_4	69	$\text{As}_2\text{Te}_3(\text{s})$		81
$\text{AsGa}(\text{s})$	GaAs	69	$\text{As}_2\text{Te}_3(\text{l})$		81
$\text{AsGa}(\text{l})$	GaAs	69	$\text{As}_2\text{Zn}_3(\text{s})$	Zn_3As_2	81
$\text{AsGaO}_4(\text{s})$	GaAsO_4	69	$\text{As}_3(\text{g})$		81
$\text{AsH}_3(\text{g})$		70	$\text{As}_4(\text{g})$		81
$\text{AsI}_3(\text{s})$		70	$\text{As}_4\text{O}_6(\text{s})$		82
$\text{AsI}_3(\text{l})$		70	$\text{As}_4\text{O}_6(\text{l})$		82
$\text{AsI}_3(\text{g})$		70	$\text{As}_4\text{O}_6(\text{g})$		82
$\text{AsIn}(\text{s})$	InAs	71	$\text{As}_4\text{S}_4(\text{s})$		83
$\text{AsIn}(\text{l})$	InAs	71	$\text{As}_4\text{S}_4(\text{l})$		83

As ₄ S ₄ (g)		83	BF ₂ O(g)	OBF ₂	93
As ₄ U ₃ (s)	U ₃ As ₄	83	BF ₃ (g)		93
As ₇ Re ₃ (s)	Re ₃ As ₇	83	BF ₄ K(s)	KBF ₄	93
As ₈ Ni ₁₁ (s)	Ni ₁₁ As ₈	84	BF ₄ K(l)	KBF ₄	94
Au(s)		84	BF ₄ K(g)	KBF ₄	94
Au(l)		84	BF ₄ Li(s)	LiBF ₄	95
Au(g)		84	BF ₄ Na(s)	NaBF ₄	95
AuBr(s)		84	BF ₄ Na(l)	NaBF ₄	95
AuCd(s)		85	BFe(s)	FeB	96
AuCl(s)		85	BFe(l)	FeB	96
AuCl ₃ (s)		85	BFe ₂ (s)	Fe ₂ B	96
AuCu(s)		85	BH(g)		96
AuCu ₃ (s)		85	BHO(g)	HBO	96
AuF ₃ (s)		85	BHO ₂ (s)	HBO ₂	97
AuH(g)		85	BHO ₂ (g)	HBO ₂	97
AuH ₃ O ₃ (s)	Au(OH) ₃	86	BHS(g)	HBS	97
AuI(s)		86	BH ₃ (g)		97
AuLa(g)	LaAu	86	BH ₃ O ₃ (s)	H ₃ BO ₃	97
AuS(g)		86	BH ₃ O ₃ (g)	H ₃ BO ₃	97
AuSb ₂ (s)		86	BH ₄ K(s)	KBH ₄	98
AuSe(s)		86	BH ₄ Li(s)	LiBH ₄	98
AuSn(s)		87	BH ₄ Na(s)	NaBH ₄	98
AuSn ₂ (s)		87	Bl(g)		98
AuSn ₄ (s)		87	Bl ₂ (g)		98
AuTe ₂ (s)		87	Bl ₃ (s)		98
Au ₂ O ₃ (s)		87	Bl ₃ (l)		99
Au ₂ P ₃ (s)		87	Bl ₃ (g)		99
B(s)		88	BKO ₂ (s)	KBO ₂	99
B(l)		88	BKO ₂ (l)	KBO ₂	99
B(g)		88	BKO ₂ (g)	KBO ₂	100
BBeO ₂ (g)	BeBO ₂	88	BLiO ₂ (s)	LiBO ₂	100
BBr(g)		88	BLiO ₂ (l)	LiBO ₂	100
BBrCl(g)		89	BLiO ₂ (g)	LiBO ₂	100
BBrCl ₂ (g)		89	BMn(s)	MnB	100
BBrF(g)		89	BMn ₂ (s)	Mn ₂ B	100
BBrF ₂ (g)		89	BMo(s)	MoB	101
BBrO(g)	OBBr	89	BN(s)		101
BBr ₂ (g)		89	BN(g)		101
BBr ₂ Cl(g)		89	BNaO ₂ (s)	NaBO ₂	101
BBr ₂ F(g)		90	BNaO ₂ (l)	NaBO ₂	101
BBr ₂ H(g)	BHBr ₂	90	BNaO ₂ (g)	NaBO ₂	101
BBr ₃ (l)		90	BNi(s)	NiB	102
BBr ₃ (g)		90	BNi ₂ (s)	Ni ₂ B	102
BC(g)		90	BNi ₃ (s)	Ni ₃ B	102
BCl(g)		90	BO(g)		102
BClF(g)		90	BO ₂ (g)		102
BClF ₂ (g)		91	BO ₂ Rb(g)	RbBO ₂	102
BClO(g)	BOCl	91	BP(s)		103
BCl ₂ (g)		91	BS(g)		103
BCl ₂ F(g)		91	BS ₂ (s)		103
BCl ₂ H(g)	BHCl ₂	91	BS ₂ (g)		103
BCl ₃ (g)		91	BSe(g)		103
BCo(s)	CoB	91	BTe(g)	TeB	103
BCo ₂ (s)	Co ₂ B	92	BTi(s)	TiB	103
BCr(s)	CrB	92	BV(s)	VB	104
BCsO ₂ (s)	CsBO ₂	92	BW(s)	WB	104
BCsO ₂ (g)	CsBO ₂	92	BW ₂ (s)	W ₂ B	104
BF(g)		92	B ₂ (g)		104
BFO(g)	BOF	92	B ₂ Ba ₃ O ₆ (s)	3BaO · B ₂ O ₃	104
BF ₂ (g)		93	B ₂ BeO ₄ (g)	BeO · B ₂ O ₃	104
BF ₂ H(g)	BHF ₂	93	B ₂ Be ₃ O ₆ (s)	3BeO · B ₂ O ₃	105
BF ₂ HO(g)	BF ₂ OH	93	B ₂ CaO ₄ (s)	CaO · B ₂ O ₃	105

$B_2CaO_4(l)$	$CaO \cdot B_2O_3$	105	$B_4CaO_7(l)$	$CaO \cdot 2B_2O_3$	117
$B_2Ca_2O_5(s)$	$2CaO \cdot B_2O_3$	105	$B_4Cr_3(s)$	Cr_3B_4	118
$B_2Ca_2O_5(l)$	$2CaO \cdot B_2O_3$	106	$B_4K_2O_7(s)$	$K_2O \cdot 2B_2O_3$	118
$B_2Ca_3O_6(s)$	$3CaO \cdot B_2O_3$	106	$B_4K_2O_7(l)$	$K_2O \cdot 2B_2O_3$	118
$B_2Ca_3O_6(l)$	$3CaO \cdot B_2O_3$	106	$B_4Li_2O_7(s)$	$Li_2O \cdot 2B_2O_3$	118
$B_2Cl_4(g)$		107	$B_4Li_2O_7(l)$	$Li_2O \cdot 2B_2O_3$	119
$B_2Cr(s)$	CrB_2	107	$B_4Mg(s)$	MgB_4	119
$B_2Cs_2O_4(s)$	$Cs_2O \cdot B_2O_3$	107	$B_4Mn_3(s)$	Mn_3B_4	119
$B_2Cs_2O_4(l)$	$Cs_2O \cdot B_2O_3$	107	$B_4Na_2O_7(s)$	$Na_2O \cdot 2B_2O_3$	119
$B_2F_4(g)$		107	$B_4Na_2O_7(l)$	$Na_2O \cdot 2B_2O_3$	119
$B_2F_4O(g)$	$O(BF_2)_2$	108	$B_4O_7Pb(s)$	$PbO \cdot 2B_2O_3$	120
$B_2H_4O_4(s)$	$(B(OH)_2)_2$	108	$B_4S_6(g)$		120
$B_2H_4O_4(g)$	$(B(OH)_2)_2$	108	$B_4S_8(g)$		120
$B_2H_6(g)$		108	$B_4U(s)$	UB_4	120
$B_2Hf(s)$	HfB_2	108	$B_4V_3(s)$	V_3B_4	120
$B_2K_2O_4(s)$	$K_2O \cdot B_2O_3$	108	$B_5H_9(l)$		120
$B_2K_2O_4(l)$	$K_2O \cdot B_2O_3$	109	$B_5H_9(g)$		121
$B_2Li_2O_4(s)$	$Li_2O \cdot B_2O_3$	109	$B_6Ce(s)$	CeB_6	121
$B_2Li_2O_4(l)$	$Li_2O \cdot B_2O_3$	109	$B_6K_2O_{10}(s)$	$K_2O \cdot 3B_2O_3$	121
$B_2Mg(s)$	MgB_2	109	$B_6Li_2O_{10}(s)$	$Li_2O \cdot 3B_2O_3$	121
$B_2Mn(s)$	MnB_2	110	$B_6Na_2O_{10}(s)$	$Na_2O \cdot 3B_2O_3$	121
$B_2Na_2O_4(s)$	$Na_2O \cdot B_2O_3$	110	$B_6O_{10}Pb(s)$	$PbO \cdot 3B_2O_3$	121
$B_2Na_2O_4(l)$	$Na_2O \cdot B_2O_3$	110	$B_6V_5(s)$	V_5B_6	122
$B_2Nb(s)$	NbB_2	110	$B_8K_2O_{13}(s)$	$K_2O \cdot 4B_2O_3$	122
$B_2O(g)$		110	$B_8K_2O_{13}(l)$	$K_2O \cdot 4B_2O_3$	122
$B_2O_2(g)$	$(BO)_2$	111	$B_8Li_2O_{13}(s)$	$Li_2O \cdot 4B_2O_3$	122
$B_2O_3(s)$		111	$B_8Na_2O_{13}(s)$	$Na_2O \cdot 4B_2O_3$	122
$B_2O_3(l)$		111	$B_{10}H_{14}(s)$		123
$B_2O_3(g)$		111	$B_{10}H_{14}(l)$		123
$B_2O_4Pb(s)$	$PbO \cdot B_2O_3$	111	$B_{10}H_{14}(g)$		123
$B_2O_4Rb_2(s)$	$Rb_2O \cdot B_2O_3$	112	$B_{10}O_{17}Pb_2(s)$	$2PbO \cdot 5B_2O_3$	123
$B_2O_4Rb_2(l)$	$Rb_2O \cdot B_2O_3$	112	$B_{12}U(s)$	UB_{12}	123
$B_2S_2(g)$		112	$Ba(s)$		123
$B_2S_3(s)$		112	$Ba(l)$		124
$B_2S_3(l)$		113	$Ba(g)$		124
$B_2S_3(g)$		113	$BaBr(g)$		124
$B_2S_4(g)$		113	$BaBr_2(s)$		124
$B_2Ta(s)$	TaB_2	113	$BaBr_2(l)$		125
$B_2Ti(s)$	TiB_2	113	$BaBr_2(g)$		125
$B_2Ti(l)$	TiB_2	113	$BaCO_3(s)$		125
$B_2U(s)$	UB_2	114	$BaC_2(s)$		126
$B_2V(s)$	VB_2	114	$BaCeO_3(s)$	$BaO \cdot CeO_2$	126
$B_2V_3(s)$	V_3B_2	114	$BaCl(g)$		126
$B_2Zr(s)$	ZrB_2	114	$BaCl_2(s)$		126
$B_2Zr(l)$	ZrB_2	114	$BaCl_2(l)$		127
$B_3Cl_3O_3(g)$	$(BOCl)_3$	115	$BaCl_2(g)$		127
$B_3Cr_5(s)$	Cr_5B_3	115	$BaCrO_4(s)$		128
$B_3FH_2O_3(g)$	$B_3H_2O_3F$	115	$BaCuO_2(s)$		128
$B_3F_2HO_3(g)$	$B_3HO_3F_2$	115	$BaF(g)$		128
$B_3F_3O_3(s)$	$(BOF)_3$	115	$BaF_2(s)$		128
$B_3F_3O_3(g)$	$(BOF)_3$	115	$BaF_2(l)$		128
$B_3H_3O_3(s)$	$(BOH)_3$	116	$BaF_2(g)$		128
$B_3H_3O_3(g)$	$(BOH)_3$	116	$BaHO(g)$	$BaOH$	128
$B_3H_3O_6(g)$	$(HBO_2)_3$	116	$BaH_2(s)$		129
$B_3H_6N_3(g)$		116	$BaH_2O_2(s)$	$Ba(OH)_2$	129
$B_3NaO_5(s)$	NaB_3O_5	116	$BaH_2O_2(l)$	$Ba(OH)_2$	129
$B_3Ni_4(s)$	Ni_4B_3	116	$BaH_2O_2(g)$	$Ba(OH)_2$	130
$B_3V_2(s)$	V_2B_3	117	$BaHfO_3(s)$	$BaO \cdot HfO_2$	130
$B_4C(s)$		117	$Ba(l)$		130
$B_4C(l)$		117	$Bal_2(s)$		130
$B_4CaO_7(s)$	$CaO \cdot 2B_2O_3$	117	$Bal_2(l)$		130

BaI ₂ (g)		131	BeF ₃ Li(g)	LiBeF ₃	143
BaMoO ₃ (s)	BaO · MoO ₂	131	BeF ₄ Li ₂ (s)	Li ₂ BeF ₄	143
BaMoO ₄ (s)		131	BeF ₄ Li ₂ (l)	Li ₂ BeF ₄	143
BaN ₂ O ₆ (s)	Ba(NO ₃) ₂	131	BeH(g)		144
BaO(s)		131	BeH ₂ (s)		144
BaO(l)		132	BeH ₂ (g)		144
BaO(g)		132	BeH ₂ O ₂ (s)	Be(OH) ₂	144
BaO ₂ (s)		132	BeH ₂ O ₂ (g)	Be(OH) ₂	145
BaO ₃ Pr(s)	BaO · PrO ₂	132	BeH ₄ O ₈ S(s)	BeSO ₄ · 2H ₂ O	145
BaO ₃ Pu(s)	BaO · PuO ₂	132	BeH ₈ O ₈ S(s)	BeSO ₄ · 4H ₂ O	145
BaO ₃ Si(s)	BaO · SiO ₂	133	Bel(g)		145
BaO ₃ Tb(s)	BaO · TbO ₂	133	Bel ₂ (s)		145
BaO ₃ Ti(s)	BaO · TiO ₂	133	Bel ₂ (l)		146
BaO ₃ U(s)	BaO · UO ₂	133	Bel ₂ (g)		146
BaO ₃ Zr(s)	BaO · ZrO ₂	133	BeN(g)		146
BaO ₄ S(s)	BaSO ₄	133	BeO(s)		146
BaO ₄ U(s)	BaO · UO ₃	134	BeO(l)		147
BaO ₄ W(s)	BaO · WO ₃	134	BeO(g)		147
BaO ₄ Y ₂ (s)	Y ₂ BaO ₄	134	BeO ₄ S(s)	BeSO ₄	147
BaO ₅ Si ₂ (s)	BaO · 2SiO ₂	134	BeO ₄ W(s)	BeWO ₄	147
BaO ₆ V ₂ (s)	BaO · V ₂ O ₅	134	BeS(s)		148
BaO ₇ U ₂ (s)	BaO · 2UO ₃	134	BeS(g)		148
BaPdS ₂ (s)		135	BeSe(s)		148
BaS(s)		135	BeTe(s)		148
BaS(g)		135	Be ₂ (g)		148
BaSe(s)		135	Be ₂ C(s)		148
BaSn ₃ (s)		135	Be ₂ C(l)		148
BaTe(s)		135	Be ₂ Cl ₄ (g)	(BeCl ₂) ₂	149
Ba ₂ CaNpO ₆ (s)	2BaO · CaO · NpO ₃	135	Be ₂ F ₂ O(g)	Be ₂ OF ₂	149
Ba ₂ CaO ₆ Pu(s)	2BaO · CaO · PuO ₃	136	Be ₂ O(g)		149
Ba ₂ CaO ₆ U(s)	2BaO · CaO · UO ₃	136	Be ₂ O ₂ (g)	(BeO) ₂	149
Ba ₂ MgO ₆ Pu(s)	2BaO · MgO · PuO ₃	136	Be ₂ O ₄ Si(s)	2BeO · SiO ₂	149
Ba ₂ NpO ₆ Sr(s)	2BaO · SrO · NpO ₃	136	Be ₃ N ₂ (s)		149
Ba ₂ O ₄ Si(s)	2BaO · SiO ₂	136	Be ₃ N ₂ (l)		150
Ba ₂ O ₄ Ti(s)	2BaO · TiO ₂	136	Be ₃ O ₃ (g)	(BeO) ₃	150
Ba ₂ O ₆ PuSr(s)	2BaO · SrO · PuO ₃	137	Be ₄ O ₄ (g)	(BeO) ₄	150
Ba ₂ O ₆ SrU(s)	2BaO · SrO · UO ₃	137	Be ₅ O ₅ (g)	(BeO) ₅	150
Ba ₂ O ₇ U ₂ (s)	2BaO · UO ₂ · UO ₃	137	Be ₆ O ₆ (g)	(BeO) ₆	151
Ba ₂ O ₈ Si ₃ (s)	2BaO · 3SiO ₂	137	Bi(s)		151
Ba ₂ S ₂ (g)		137	Bi(l)		151
Ba ₂ Sn(s)		137	Bi(g)		151
Ba ₃ N ₂ (s)		138	BiBr(g)		151
Ba ₃ O ₆ Pu(s)	3BaO · PuO ₃	138	BiBrH ₂ O ₂ (g)	Bi(OH) ₂ Br	151
Be(s)		138	BiBrO(s)	BiOBr	152
Be(l)		139	BiBrTe(s)	BiTeBr	152
Be(g)		139	BiBr ₃ (s)		152
BeBr(g)		139	BiBr ₃ (l)		153
BeBr ₂ (s)		139	BiBr ₃ (g)		153
BeBr ₂ (g)		139	BiCl(g)		153
BeC ₂ (g)		140	BiClH ₂ O ₂ (g)	Bi(OH) ₂ Cl	153
BeCl(g)		140	BiClO(s)	BiOCl	153
BeClF(g)		140	BiClSe(s)	BiSeCl	153
BeCl ₂ (s)		140	BiClTe(s)	BiTeCl	153
BeCl ₂ (l)		141	BiCl ₃ (s)		154
BeCl ₂ (g)		141	BiCl ₃ (l)		154
BeF(g)		141	BiCl ₃ (g)		154
BeF ₂ (s)		141	BiF(g)		154
BeF ₂ (l)		142	BiF ₃ (s)		154
BeF ₂ (g)		142	BiF ₃ (l)		155
BeF ₃ Li(s)	LiBeF ₃	142	BiF ₃ (g)		155
BeF ₃ Li(l)	LiBeF ₃	143	BiH ₂ O ₂ (g)	Bi(OH) ₂ l	155
			BiH ₃ (g)		155

BiI(s)		155	Bi ₂ O ₃ (s)		165
BiI(g)		156	Bi ₂ O ₃ (l)		165
BiI(O)(s)	BiOI	156	Bi ₂ O ₅ Se(s)	Bi ₂ O ₃ · SeO ₂	166
BiISe(s)	BiSel	156	Bi ₂ O ₅ Te(s)	Bi ₂ O ₃ · TeO ₂	166
BiI ₃ (s)		156	Bi ₂ O ₇ Te ₂ (s)	Bi ₂ O ₃ · 2TeO ₂	166
BiI ₃ (l)		157	Bi ₂ O ₉ Se ₃ (s)	Bi ₂ O ₃ · 3SeO ₃	166
BiI ₃ (g)		157	Bi ₂ O ₁₁ Se ₄ (s)	Bi ₂ O ₃ · 4SeO ₂	166
BiK ₃ (s)	K ₃ Bi	157	Bi ₂ O ₁₁ Te ₄ (s)	Bi ₂ O ₃ · 4TeO ₂	166
BiLa(s)	LaBi	157	Bi ₂ O ₁₂ S ₃ (s)		167
BiMn(s)	MnBi	157	Bi ₂ S ₃ (s)		167
BiNi(s)	NiBi	157	Bi ₂ S ₃ (l)		167
BiS(g)		158	Bi ₂ Se(s)		167
BiSe(s)		158	Bi ₂ Se ₃ (s)		167
BiSe(g)		158	Bi ₂ Se ₃ (l)		168
BiTe(s)		158	Bi ₂ Te(s)		168
BiTe(g)		158	Bi ₂ Te ₃ (s)		168
BiTe _{1.22} (s)		158	Bi ₂ Te ₃ (l)		168
BiU(s)		158	Bi ₂ U(s)		168
Bi ₂ (g)		159	Bi ₃ BrO ₄ (s)	Bi ₃ O ₄ Br	168
Bi ₂ BrDyO ₄ (s)	Bi ₂ DyO ₄ Br	159	Bi ₃ ClO ₄ (s)	Bi ₃ O ₄ Cl	169
Bi ₂ BrErO ₄ (s)	Bi ₂ ErO ₄ Br	159	Bi ₄ Br ₂ O ₅ (s)	Bi ₄ O ₅ Br	169
Bi ₂ BrEuO ₄ (s)	Bi ₂ EuO ₄ Br	159	Bi ₄ Cl ₂ O ₄ Se(s)	Bi ₄ O ₄ SeCl ₂	169
Bi ₂ BrGdO ₄ (s)	Bi ₂ GdO ₄ Br	159	Bi ₄ Cl ₂ O ₅ (s)	Bi ₄ O ₅ Cl ₂	169
Bi ₂ BrHoO ₄ (s)	Bi ₂ HoO ₄ Br	159	Bi ₄ I ₂ O ₅ (s)	Bi ₄ O ₅ I ₂	169
Bi ₂ BrLuO ₄ (s)	Bi ₂ LuO ₄ Br	159	Bi ₄ U ₃ (s)		169
Bi ₂ BrNdO ₄ (s)	Bi ₂ NdO ₄ Br	160	Bi ₅ O ₇ (s)	Bi ₅ O ₇ l	170
Bi ₂ BrO ₄ Pr(s)	Bi ₂ PrO ₄ Br	160	Bi ₇ I ₃ O ₅ (s)	Bi ₇ O ₉ I ₃	170
Bi ₂ BrO ₄ Sm(s)	Bi ₂ SmO ₄ Br	160	Bi ₈ Cl ₆ Se ₉ (s)	Bi ₈ Se ₉ Cl ₆	170
Bi ₂ BrO ₄ Tb(s)	Bi ₂ TbO ₄ Br	160	Bi ₁₀ Cl ₄ O ₁₂ Se(s)	Bi ₁₀ O ₁₂ SeCl ₄	170
Bi ₂ BrO ₄ Tm(s)	Bi ₂ TmO ₄ Br	160	Bi ₁₀ O ₁₉ Se ₂ (s)	5Bi ₂ O ₃ · 2SeO ₂	170
Bi ₂ BrO ₄ Y(s)	Bi ₂ YO ₄ Br	160	Bi ₁₀ O ₁₉ Te ₂ (s)	5Bi ₂ O ₃ · 2TeO ₂	170
Bi ₂ BrO ₄ Yb(s)	Bi ₂ YbO ₄ Br	160	Bi ₁₂ Cl ₂ O ₁₇ (s)	Bi ₁₂ O ₁₇ Cl ₂	171
Bi ₂ Ca ₃ (s)	Ca ₃ Bi ₂	161	Bi ₁₂ O ₂₀ Se(s)	6Bi ₂ O ₃ · SeO ₂	171
Bi ₂ ClDyO ₄ (s)	Bi ₂ DyO ₄ Cl	161	Bi ₁₂ O ₂₀ Te(s)	6Bi ₂ O ₃ · TeO ₂	171
Bi ₂ ClErO ₄ (s)	Bi ₂ ErO ₄ Cl	161	Bi ₁₆ O ₃₄ Se ₅ (s)	8Bi ₂ O ₃ · 5SeO ₂	171
Bi ₂ ClEuO ₄ (s)	Bi ₂ EuO ₄ Cl	161	Bi ₁₆ O ₃₄ Te ₅ (s)	8Bi ₂ O ₃ · 5TeO ₂	171
Bi ₂ ClGdO ₄ (s)	Bi ₂ GdO ₄ Cl	161	Bi ₂₂ Cl ₆ O ₂₈ Se(s)	Bi ₂₂ O ₂₆ SeCl ₆	171
Bi ₂ ClHoO ₄ (s)	Bi ₂ HoO ₄ Cl	161	Bi ₂₄ Br ₁₀ O ₃₁ (s)	Bi ₂₄ O ₃₁ Br ₁₀	172
Bi ₂ ClLuO ₄ (s)	Bi ₂ LuO ₄ Cl	161	Bi ₂₄ Cl ₁₀ O ₃₁ (s)	Bi ₂₄ O ₃₁ Cl ₁₀	172
Bi ₂ ClNdO ₄ (s)	Bi ₂ NdO ₄ Cl	162	Br(g)		172
Bi ₂ ClO ₄ Pr(s)	Bi ₂ PrO ₄ Cl	162	BrC(g)	CBr	172
Bi ₂ ClO ₄ Sm(s)	Bi ₂ SmO ₄ Cl	162	BrCF ₃ (g)	CBrF ₃	172
Bi ₂ ClO ₄ Tb(s)	Bi ₂ TbO ₄ Cl	162	BrCN(g)		172
Bi ₂ ClO ₄ Tm(s)	Bi ₂ TmO ₄ Cl	162	BrCa(g)	CaBr	173
Bi ₂ ClO ₄ Y(s)	Bi ₂ YO ₄ Cl	162	BrCl(g)		173
Bi ₂ ClO ₄ Yb(s)	Bi ₂ YbO ₄ Cl	162	BrCs(s)	CsBr	173
Bi ₂ DyIO ₄ (s)	Bi ₂ DyO ₄ I	163	BrCs(l)	CsBr	173
Bi ₂ ErIO ₄ (s)	Bi ₂ ErO ₄ I	163	BrCs(g)	CsBr	173
Bi ₂ EuIO ₄ (s)	Bi ₂ EuO ₄ I	163	BrCu(s)	CuBr	174
Bi ₂ GdIO ₄ (s)	Bi ₂ GdO ₄ I	163	BrCu(l)	CuBr	174
Bi ₂ HoIO ₄ (s)	Bi ₂ HoO ₄ I	163	BrCu(g)	CuBr	175
Bi ₂ LaO ₄ (s)	Bi ₂ LaO ₄ I	163	BrF(g)		175
Bi ₂ LuO ₄ (s)	Bi ₂ LuO ₄ I	163	BrF ₃ (g)		175
Bi ₂ NdO ₄ (s)	Bi ₂ NdO ₄ I	164	BrF ₅ (g)		175
Bi ₂ O ₄ Pr(s)	Bi ₂ PrO ₄ I	164	BrF ₅ (s)	SBrF ₅	175
Bi ₂ O ₄ Sm(s)	Bi ₂ SmO ₄ I	164	BrGa(g)	GaBr	175
Bi ₂ O ₄ Tb(s)	Bi ₂ TbO ₄ I	164	BrH(g)	HBr	176
Bi ₂ O ₄ Tm(s)	Bi ₂ TmO ₄ I	164	BrH ₃ Si(g)	SiH ₃ Br	176
Bi ₂ O ₄ Y(s)	Bi ₂ YO ₄ I	164	BrH ₄ N(s)	NH ₄ Br	176
Bi ₂ O ₄ Yb(s)	Bi ₂ YbO ₄ I	164	BrH ₄ P(s)	PH ₄ Br	177
Bi ₂ O ₂ Se(s)		165	BrHg(g)	HgBr	177
Bi ₂ O ₂ Te(s)		165			

BrI(g)	IBr	177	Br ₂ Hg(g)	HgBr ₂	191
BrISn(s)	SnBrI	177	Br ₂ Hg ₂ (s)	Hg ₂ Br ₂	191
BrISn(g)	SnBrI	177	Br ₂ K ₂ (g)	(KBr) ₂	191
BrIn(s)	InBr	177	Br ₂ Li ₂ (g)	(LiBr) ₂	192
BrIn(l)	InBr	178	Br ₂ Mg(s)	MgBr ₂	192
BrIn(g)	InBr	178	Br ₂ Mg(l)	MgBr ₂	192
BrK(s)	KBr	178	Br ₂ Mg(g)	MgBr ₂	193
BrK(l)	KBr	178	Br ₂ Mn(s)	MnBr ₂	193
BrK(g)	KBr	179	Br ₂ Mn(l)	MnBr ₂	193
BrKO ₃ (s)	KBrO ₃	179	Br ₂ Mn(g)	MnBr ₂	193
BrLi(s)	LiBr	179	Br ₂ Mo(s)	MoBr ₂	193
BrLi(l)	LiBr	179	Br ₂ Mo(g)	MoBr ₂	194
BrLi(g)	LiBr	180	Br ₂ MoO ₂ (g)	MoO ₂ Br ₂	194
BrMg(g)	MgBr	180	Br ₂ Na ₂ (g)	(NaBr) ₂	194
BrMo(g)	MoBr	180	Br ₂ Ni(s)	NiBr ₂	194
BrN(g)	NBr	180	Br ₂ Ni(g)	NiBr ₂	194
BrNO(g)	NOBr	180	Br ₂ O(g)	BrOBr	195
BrNa(s)	NaBr	180	Br ₂ O(g)	BrBrO	195
BrNa(l)	NaBr	181	Br ₂ OSe(s)	SeOBr ₂	195
BrNa(g)	NaBr	181	Br ₂ OSe(l)	SeOBr ₂	195
BrNaO ₃ (s)	NaBrO ₃	181	Br ₂ OSe(g)	SeOBr ₂	195
BrNi(g)	NiBr	181	Br ₂ OTe(g)	TeOBr ₂	195
BrO(g)		182	Br ₂ OTe(s)	ThOBr ₂	195
BrOPu(s)	PuOBr	182	Br ₂ OU(s)	UOBr ₂	196
BrO ₂ (g)	OBrO	182	Br ₂ O ₂ U(s)	UO ₂ Br ₂	196
BrO ₂ (g)	BrOO	182	Br ₂ O ₂ W(s)	WO ₂ Br ₂	196
BrO ₃ (g)		182	Br ₂ Pb(s)	PbBr ₂	196
BrO ₃ Re(g)	ReO ₃ Br	182	Br ₂ Pb(l)	PbBr ₂	196
BrP(g)	PBr	183	Br ₂ Pb(g)	PbBr ₂	197
BrPb(g)	PbBr	183	Br ₂ Pd(g)	PdBr ₂	197
BrRb(s)	RbBr	183	Br ₂ Pt(s)	PtBr ₂	197
BrRb(l)	RbBr	183	Br ₂ S(g)	SBr ₂	197
BrRb(g)	RbBr	183	Br ₂ S ₂ (l)	S ₂ Br ₂	197
BrSi(g)	SiBr	184	Br ₂ S ₂ (g)	S ₂ Br ₂	197
BrSr(g)	SrBr	184	Br ₂ Se(g)	SeBr ₂	198
BrTi(g)	TiBr	184	Br ₂ Se ₂ (l)	Se ₂ Br ₂	198
BrTi(s)	TiBr	184	Br ₂ Se ₂ (g)	Se ₂ Br ₂	198
BrTi(l)	TiBr	184	Br ₂ Si(g)	SiBr ₂	198
BrTi(g)	TiBr	185	Br ₂ Sn(s)	SnBr ₂	198
BrW(g)	WBr	185	Br ₂ Sn(l)	SnBr ₂	199
BrZr(g)	ZrBr	185	Br ₂ Sn(g)	SnBr ₂	199
Br ₂ (l)		185	Br ₂ Sr(s)	SrBr ₂	199
Br ₂ (g)		185	Br ₂ Sr(l)	SrBr ₂	200
Br ₂ Ca(s)	CaBr ₂	186	Br ₂ Sr(g)	SrBr ₂	200
Br ₂ Ca(l)	CaBr ₂	186	Br ₂ Ti(s)	TiBr ₂	200
Br ₂ Ca(g)	CaBr ₂	186	Br ₂ Ti(g)	TiBr ₂	200
Br ₂ Cd(s)	CdBr ₂	187	Br ₂ Tl ₂ (g)	Tl ₂ Br ₂	201
Br ₂ Cd(l)	CdBr ₂	187	Br ₂ V(s)	VBr ₂	201
Br ₂ Cd(g)	CdBr ₂	187	Br ₂ Zn(s)	ZnBr ₂	201
Br ₂ Co(s)	CoBr ₂	187	Br ₂ Zn(l)	ZnBr ₂	201
Br ₂ Cr(s)	CrBr ₂	188	Br ₂ Zn(g)	ZnBr ₂	202
Br ₂ Cu(s)	CuBr ₂	188	Br ₂ Zr(s)	ZrBr ₂	202
Br ₂ Eu(s)	EuBr ₂	188	Br ₂ Zr(l)	ZrBr ₂	202
Br ₂ Eu(l)	EuBr ₂	188	Br ₂ Zr(g)	ZrBr ₂	202
Br ₂ Eu(g)	EuBr ₂	189	Br ₃ Ce(s)	CeBr ₃	202
Br ₂ Fe(s)	FeBr ₂	189	Br ₃ Ce(l)	CeBr ₃	203
Br ₂ Fe(l)	FeBr ₂	189	Br ₃ Ce(g)	CeBr ₃	203
Br ₂ Fe(g)	FeBr ₂	190	Br ₃ Cr(s)	CrBr ₃	203
Br ₂ Ge(g)	GeBr ₂	190	Br ₃ Cu ₃ (g)	(CuBr) ₃	203
Br ₂ H ₂ Si(g)	SiH ₂ Br ₂	190	Br ₃ Dy(s)	DyBr ₃	203
Br ₂ Hg(s)	HgBr ₂	190	Br ₃ Dy(g)	DyBr ₃	203
Br ₂ Hg(l)	HgBr ₂	191	Br ₃ Er(s)	ErBr ₃	204

Br ₃ Er(g)	ErBr ₃	204	Br ₃ Zr(g)	ZrBr ₃	217
Br ₃ Eu(s)	EuBr ₃	204	Br ₄ C(s)		217
Br ₃ Fe(s)	FeBr ₃	204	Br ₄ C(l)		218
Br ₃ Ga(s)	GaBr ₃	204	Br ₄ C(g)		218
Br ₃ Ga(l)	GaBr ₃	205	Br ₄ Cr(g)	CrBr ₄	218
Br ₃ Ga(g)	GaBr ₃	205	Br ₄ Fe ₂ (g)	(FeBr ₂) ₂	218
Br ₃ Gd(s)	GdBr ₃	205	Br ₄ Ge(l)	GeBr ₄	219
Br ₃ Gd(l)	GdBr ₃	205	Br ₄ Ge(g)	GeBr ₄	219
Br ₃ Gd(g)	GdBr ₃	206	Br ₄ Hf(s)	HfBr ₄	219
Br ₃ HSi(g)	SiHBr ₃	206	Br ₄ Hf(g)	HfBr ₄	219
Br ₃ Ho(s)	HoBr ₃	206	Br ₄ Mg ₂ (g)	(MgBr ₂) ₂	219
Br ₃ Ho(l)	HoBr ₃	206	Br ₄ Mn ₂ (g)	Mn ₂ Br ₄	220
Br ₃ Ho(g)	HoBr ₃	207	Br ₄ Mo(s)	MoBr ₄	220
Br ₃ In(s)	InBr ₃	207	Br ₄ Mo(g)	MoBr ₄	220
Br ₃ In(g)	InBr ₃	207	Br ₄ MoO(g)	MoOBr ₄	220
Br ₃ Ir(s)	IrBr ₃	207	Br ₄ Pb(g)	PbBr ₄	220
Br ₃ La(s)	LaBr ₃	207	Br ₄ Pt(s)	PtBr ₄	220
Br ₃ La(l)	LaBr ₃	208	Br ₄ Se(s)	SeBr ₄	221
Br ₃ La(g)	LaBr ₃	208	Br ₄ Si(l)	SiBr ₄	221
Br ₃ Lu(s)	LuBr ₃	208	Br ₄ Si(g)	SiBr ₄	221
Br ₃ Mo(s)	MoBr ₃	208	Br ₄ Sn(s)	SnBr ₄	221
Br ₃ Mo(g)	MoBr ₃	208	Br ₄ Sn(l)	SnBr ₄	221
Br ₃ MoO(g)	MoOBr ₃	209	Br ₄ Sn(g)	SnBr ₄	222
Br ₃ NaSn(g)	NaSnBr ₃	209	Br ₄ Te(s)	TeBr ₄	222
Br ₃ Nd(s)	NdBr ₃	209	Br ₄ Th(s)	ThBr ₄	222
Br ₃ Nd(l)	NdBr ₃	209	Br ₄ Th(l)	ThBr ₄	223
Br ₃ Nd(g)	NdBr ₃	209	Br ₄ Th(g)	ThBr ₄	223
Br ₃ OP(l)	POBr ₃	210	Br ₄ Ti(s)	TiBr ₄	223
Br ₃ OP(g)	POBr ₃	210	Br ₄ Ti(l)	TiBr ₄	223
Br ₃ OU(s)	UOBr ₃	210	Br ₄ Ti(g)	TiBr ₄	224
Br ₃ P(l)	PBr ₃	210	Br ₄ U(s)	UBr ₄	224
Br ₃ P(g)	PBr ₃	210	Br ₄ U(l)	UBr ₄	224
Br ₃ PS(g)	PSBr ₃	211	Br ₄ U(g)	UBr ₄	224
Br ₃ Pm(s)	PmBr ₃	211	Br ₄ V(g)	VBr ₄	225
Br ₃ Pr(s)	PrBr ₃	211	Br ₄ Zr(s)	ZrBr ₄	225
Br ₃ Pr(l)	PrBr ₃	211	Br ₄ Zr(g)	ZrBr ₄	225
Br ₃ Pr(g)	PrBr ₃	211	Br ₅ H ₆ LaN ₂ (s)	(NH ₄) ₂ LaBr ₅	225
Br ₃ Pt(s)	PtBr ₃	212	Br ₅ H ₆ N ₂ Nd(s)	(NH ₄) ₂ NdBr ₅	225
Br ₃ Pu(s)	PuBr ₃	212	Br ₅ Nb(s)	NbBr ₅	226
Br ₃ Pu(l)	PuBr ₃	212	Br ₅ Nb(l)	NbBr ₅	226
Br ₃ Re(s)	ReBr ₃	212	Br ₅ Nb(g)	NbBr ₅	226
Br ₃ Re(g)	ReBr ₃	213	Br ₅ Re(g)	ReBr ₅	226
Br ₃ Rh(s)	RhBr ₃	213	Br ₅ Ta(s)	TaBr ₅	227
Br ₃ Sb(s)	SbBr ₃	213	Br ₅ Ta(l)	TaBr ₅	227
Br ₃ Sb(l)	SbBr ₃	213	Br ₅ Ta(g)	TaBr ₅	227
Br ₃ Sb(g)	SbBr ₃	214	Br ₅ U(s)	UBr ₅	227
Br ₃ Sc(s)	ScBr ₃	214	Br ₅ W(s)	WBr ₅	228
Br ₃ Sc(g)	ScBr ₃	214	Br ₅ W(l)	WBr ₅	228
Br ₃ Si(g)	SiBr ₃	214	Br ₅ W(g)	WBr ₅	228
Br ₃ Sm(s)	SmBr ₃	214	Br ₆ Ga ₂ (g)	(GaBr ₃) ₂	228
Br ₃ Tb(s)	TbBr ₃	214	Br ₆ H ₁₂ N ₃ Nd(s)	(NH ₄) ₃ NdBr ₆	228
Br ₃ Tb(g)	TbBr ₃	215	Br ₆ H ₁₂ N ₃ Y(s)	(NH ₄) ₃ YBr ₆	229
Br ₃ Ti(s)	TiBr ₃	215	Br ₆ In ₂ (g)	In ₂ Br ₆	229
Br ₃ Ti(g)	TiBr ₃	215	Br ₆ W(s)	WBr ₆	229
Br ₃ Tm(s)	TmBr ₃	215	Br ₆ W(g)	WBr ₆	229
Br ₃ Tm(g)	TmBr ₃	215	Br ₇ H ₄ NNd ₂ (s)	NH ₄ Nd ₂ Br ₇	229
Br ₃ U(s)	UBr ₃	215	C _{0.88} V(s)	VC _{0.88}	229
Br ₃ U(l)	UBr ₃	216	C(s)		230
Br ₃ U(g)	UBr ₃	216	C(g)		230
Br ₃ V(s)	VBr ₃	216	CCaO ₃ (s)	CaCO ₃	230
Br ₃ Yb(s)	YbBr ₃	216	CCdO ₃ (s)	CdCO ₃	231
Br ₃ Zr(s)	ZrBr ₃	216	CCl(g)		231

CClFH ₂ (g)	CH ₂ ClF	231	KCN(g)	KCN	243
CClFO(g)	COClF	231	CKNS(s)	KSCN	243
CClF ₂ H(g)	CHClF ₂	231	CK ₂ O ₃ (s)	K ₂ CO ₃	244
CClF ₃ (g)		231	CK ₂ O ₃ (l)	K ₂ CO ₃	244
CClH(g)	CHCl	232	CLi ₂ O ₃ (s)	Li ₂ CO ₃	244
CClH ₃ (g)	CH ₃ Cl	232	CLi ₂ O ₃ (l)	Li ₂ CO ₃	245
CCIN(g)	ClCN	232	CMgO ₃ (s)	MgCO ₃	246
CClO(g)	COCl	232	CMnO ₃ (s)	MnCO ₃	246
CCl ₂ (g)		232	CMn ₃ (s)	Mn ₃ C	246
CCl ₂ FH(g)	CHCl ₂ F	232	CMo(s)	MoC	247
CCl ₂ F ₂ (g)		233	CMo ₂ (s)	Mo ₂ C	247
CCl ₂ H ₂ (g)	CH ₂ Cl ₂	233	CN(g)		247
CCl ₂ O(g)	COCl ₂	233	CNNa(s)	NaCN	247
CCl ₃ (g)		233	CNNa(l)	NaCN	248
CCl ₃ F(g)		233	CNNa(g)	NaCN	248
CCl ₃ H(g)	CHCl ₃	233	CNNaO(s)	NaCNO	248
CCl ₃ H ₃ Si(g)	SiCH ₃ Cl ₃	234	CNO(g)	NCO	248
CCl ₄ (l)		234	CN ₂ (g)	CNN	249
CCl ₄ (g)		234	CN ₂ (g)	NCN	249
CCoO ₃ (s)	CoCO ₃	234	CNa ₂ O ₃ (s)	Na ₂ CO ₃	249
CCs ₂ O ₃ (s)	Cs ₂ CO ₃	235	CNa ₂ O ₃ (l)	Na ₂ CO ₃	250
CCuN(s)	CuCN	235	CNb(s)	NbC	250
CF(g)		235	CNb ₂ (s)	Nb ₂ C	250
CFH(g)	CHF	235	CNiO ₃ (s)	NiCO ₃	250
CFHO(g)	HCOF	235	CNi ₃ (s)	Ni ₃ C	250
CFH ₃ (g)	CH ₃ F	235	CO(g)		251
CFN(g)	FCN	236	COS(g)		251
CFO(g)	COF	236	CO ₂ (g)		251
CF ₂ (g)		236	CO ₃ Pb(s)	PbCO ₃	251
CF ₂ H ₂ (g)	CH ₂ F ₂	236	CO ₃ Rb ₂ (s)	Rb ₂ CO ₃	251
CF ₂ O(g)	COF ₂	236	CO ₃ Sr(s)	SrCO ₃	252
CF ₃ (g)		236	CO ₃ Zn(s)	ZnCO ₃	252
CF ₃ H(g)	CHF ₃	237	CO ₄ Pb ₂ (s)	PbO · PbCO ₃	252
CF ₃ H ₃ Si(g)	SiCH ₃ F ₃	237	CO ₅ U(s)	UO ₂ CO ₃	253
CF ₃ (g)	ClF ₃	237	CP(g)		253
CF ₄ (g)		237	CS(g)		253
CF ₄ O(g)	CF ₃ OF	237	CS ₂ (l)		253
CF ₈ S(g)	CF ₃ SF ₅	237	CS ₂ (g)		253
CFeO ₃ (s)	FeCO ₃	238	CSe(g)		254
CFe ₃ (s)	Fe ₃ C	238	CSe ₂ (l)		254
CH(g)		238	CSe ₂ (g)		254
CHKO ₃ (s)	KHCO ₃	238	CSi(s)	SiC	254
CHN(g)	HCN	239	CSi(g)	SiC	254
CHNO(g)	HNCO	239	CSi ₂ (g)	Si ₂ C	254
CHNaO ₂ (s)	NaCHO ₂	239	CTa(s)	TaC	255
CHNaO ₃ (s)	NaHCO ₃	239	CTa(l)	TaC	255
CHO(g)	HCO	239	CTa ₂ (s)	Ta ₂ C	255
CHP(g)	HCP	239	CTe(g)		255
CH ₂ (g)		240	CTh(s)	ThC	255
CH ₂ O(g)		240	CTi(s)	TiC	255
CH ₂ O ₂ (l)	HCOOH	240	CTi(l)	TiC	256
CH ₂ O ₂ (g)	HCOOH	240	CU(s)	UC	256
CH ₃ (g)		241	CV ₂ (s)	V ₂ C	256
CH ₄ (g)		241	CW(s)	WC	256
CH ₄ O(l)	CH ₃ OH	241	CW ₂ (s)	W ₂ C	256
CH ₄ O(g)	CH ₃ OH	241	CZr(s)	ZrC	256
CH ₆ N ₂ O ₂ (s)	NH ₂ CO ₂ NH ₄	242	CZr(l)	ZrC	257
CHF(s)	HfC	242	C _{1,94} U(s)	UC _{1,94}	257
ClN(g)	CNI	242	C ₂ (g)		257
Cl ₄ (g)		242	C ₂ Ca(s)	CaC ₂	257
CKN(s)	KCN	242	C ₂ CaMgO ₆ (s)	CaCO ₃ · MgCO ₃	258
CKN(l)	KCN	243	C ₂ Ce(s)	CeC ₂	258

C ₂ ClH(g)	C ₂ HCl	258	C ₅ FeO ₅ (l)	Fe(CO) ₅	270
C ₂ ClH ₃ (g)	C ₂ H ₃ Cl	258	C ₅ FeO ₅ (g)	Fe(CO) ₅	270
C ₂ ClH ₅ (g)	C ₂ H ₅ Cl	258	C ₅ H ₈ (g)		270
C ₂ Cl ₂ (g)		258	C ₅ H ₁₀ (g)		270
C ₂ Cl ₄ (g)		259	C ₅ H ₁₂ (l)		270
C ₂ Cl ₆ (g)		259	C ₅ H ₁₂ (g)		271
C ₂ Cr ₃ (s)	Cr ₃ C ₂	259	C ₆ ClH ₅ (g)	C ₆ H ₅ Cl	271
C ₂ FH(g)	C ₂ HF	259	C ₆ CrO ₆ (s)	Cr(CO) ₆	271
C ₂ F ₂ (g)		259	C ₆ CrO ₆ (g)	Cr(CO) ₆	272
C ₂ F ₃ N(g)	CF ₃ CN	259	C ₆ Cr ₂₃ (s)	Cr ₂₃ C ₆	272
C ₂ F ₄ (g)		260	C ₆ H ₆ (l)		272
C ₂ F ₆ (g)		260	C ₆ H ₆ (g)		272
C ₂ H(g)		260	C ₆ H ₆ O(g)	C ₆ H ₆ OH	273
C ₂ H ₂ (g)		260	C ₆ H ₁₀ (l)		273
C ₂ H ₂ O(g)		260	C ₆ H ₁₀ (g)		273
C ₂ H ₃ NaO ₂ (s)	NaC ₂ H ₃ O ₂	260	C ₆ H ₁₂ (l)		273
C ₂ H ₄ (g)		261	C ₆ H ₁₂ (g)		273
C ₂ H ₄ O(g)		261	C ₆ H ₁₄ (l)		274
C ₂ H ₄ O ₂ (l)		261	C ₆ H ₁₄ (g)		274
C ₂ H ₄ O ₂ (g)		261	C ₆ MoO ₆ (s)	Mo(CO) ₆	274
C ₂ H ₆ (g)		261	C ₆ MoO ₆ (g)	Mo(CO) ₆	274
C ₂ H ₆ O(l)	C ₂ H ₅ OH	262	C ₆ O ₆ W(s)	W(CO) ₆	275
C ₂ H ₆ O(g)	C ₂ H ₅ OH	262	C ₆ O ₆ W(g)	W(CO) ₆	275
C ₂ K ₂ N ₂ (g)	(KCN) ₂	262	C ₇ H ₆ O(g)	C ₆ H ₅ CHO	275
C ₂ La(s)	LaC ₂	262	C ₇ H ₆ (l)		275
C ₂ La(g)	LaC ₂	262	C ₇ H ₆ (g)		275
C ₂ Li ₂ (s)	Li ₂ C ₂	263	C ₇ H ₁₄ (l)		275
C ₂ Mg(s)	MgC ₂	263	C ₇ H ₁₄ (g)		276
C ₂ N(g)		263	C ₇ H ₁₆ (l)		276
C ₂ N ₂ (g)	(CN) ₂	263	C ₇ H ₁₆ (g)		276
C ₂ N ₂ Na ₂ (g)	(NaCN) ₂	263	C ₈ H ₁₀ (l)		276
C ₂ O(g)		263	C ₈ H ₁₀ (g)		276
C ₂ Pu(s)	PuC ₂	264	C ₈ H ₁₆ (l)		277
C ₂ Si(g)	SiC ₂	264	C ₈ H ₁₆ (g)		277
C ₂ Sm(s)	SmC ₂	264	C ₈ H ₁₈ (l)		277
C ₂ Sr(s)	SrC ₂	264	C ₈ H ₁₈ (g)		277
C ₂ Th(s)	ThC ₂	264	C ₉ H ₂₀ (l)		277
C ₂ Th(g)	ThC ₂	265	C ₉ H ₂₀ (g)		278
C ₂ U(s)	UC ₂	265	C ₁₀ H ₂₂ (l)		278
C ₃ (g)		265	C ₁₀ H ₂₂ (g)		278
C ₃ Ce ₂ (s)	Ce ₂ C ₃	266	C ₆₀ (s)		278
C ₃ Cr ₇ (s)	Cr ₇ C ₃	266	Ca(s)		278
C ₃ H ₄ (g)		266	Ca(l)		279
C ₃ H ₆ (g)		266	Ca(g)		279
C ₃ H ₆ O(l)		267	CaCl(g)		279
C ₃ H ₆ O(g)		267	CaCl ₂ (s)		280
C ₃ H ₈ (g)		267	CaCl ₂ (l)		280
C ₃ Mg ₂ (s)	Mg ₂ C ₃	267	CaCl ₂ (g)		280
C ₃ Mn ₇ (s)	Mn ₇ C ₃	267	CaCl ₂ O(s)	Ca(OCl)Cl	280
C ₃ O ₂ (g)		267	CaCl ₅ Ga(g)	CaGaCl ₅	281
C ₃ Pu ₂ (s)	Pu ₂ C ₃	268	CaCl ₈ Ga ₂ (g)	CaGa ₂ Cl ₈	281
C ₃ U ₂ (s)	U ₂ C ₃	268	CaCr ₂ O ₄ (s)	CaO · Cr ₂ O ₃	281
C ₄ (g)		268	CaF(g)		281
C ₄ H ₆ (g)		268	CaF ₂ (s)		281
C ₄ H ₈ (g)		268	CaF ₂ (l)		282
C ₄ H ₁₀ (g)		268	CaF ₂ (g)		282
C ₄ H ₁₂ Si(g)	Si(CH ₃) ₄	269	CaFe ₂ O ₄ (s)	CaO · Fe ₂ O ₃	282
C ₄ Mn ₁₅ (s)	Mn ₁₅ C ₄	269	CaFe ₂ O ₄ (l)	CaO · Fe ₂ O ₃	282
C ₄ N ₂ (g)		269	CaGeO ₃ (s)	CaO · GeO ₂	283
C ₄ NiO ₄ (l)	Ni(CO) ₄	269	CaH(g)		283
C ₄ NiO ₄ (g)	Ni(CO) ₄	269	CaHO ₄ P(s)	CaHPO ₄	283
C ₅ (g)		269	CaHO _{4.5} S(s)	CaSO ₄ · 0.5H ₂ O	283

CaH ₂ (s)		283	Ca ₃ O ₈ P ₂ (s)	3CaO · P ₂ O ₅	295
CaH ₂ O ₂ (s)	Ca(OH) ₂	284	Ca ₃ O ₈ V ₂ (s)	3CaO · V ₂ O ₅	295
CaH ₂ O ₂ (g)	Ca(OH) ₂	284	Ca ₃ P ₂ (s)		296
CaH ₄ N ₂ O ₈ (s)	Ca(NO ₃) ₂ · 2H ₂ O	284	Ca ₃ Sb ₂ (s)		296
CaH ₄ O ₆ S(s)	CaSO ₄ · 2H ₂ O	284	Ca ₄ O ₁₀ Ti ₃ (s)	4CaO · 3TiO ₂	296
CaH ₅ O ₆ P(s)	CaHPO ₄ · 2H ₂ O	284	Cd(s)		296
CaHfO ₃ (s)	CaO · HfO ₂	285	Cd(l)		296
CaI(g)		285	Cd(g)		297
CaI ₂ (s)		285	CdCl ₂ (s)		297
CaI ₂ (l)		285	CdCl ₂ (l)		297
CaI ₂ (g)		286	CdCl ₂ (g)		297
CaMgO ₂ (s)	CaO · MgO	286	CdCl ₃ K(s)	KCdCl ₃	297
CaMgO ₄ Si(s)	CaO · MgO · SiO ₂	286	CdCl ₆ K ₄ (s)	K ₄ CdCl ₆	298
CaMgO ₆ Si ₂ (s)	CaO · MgO · 2SiO ₂	286	CdCl ₈ Fe ₂ (g)	CdFe ₂ Cl ₈	298
CaMgO ₆ Si ₂ (l)	CaO · MgO · 2SiO ₂	286	CdCs ₂ Cl ₄ (s)	Cs ₂ CdCl ₄	298
CaMg ₂ (s)		287	CdF ₂ (s)		298
CaMoO ₄ (s)	CaO · MoO ₃	287	CdF ₂ (l)		298
CaN ₂ O ₈ (s)	Ca(NO ₃) ₂	287	CdF ₂ (g)		299
CaNb ₂ O ₆ (s)	CaO · Nb ₂ O ₅	287	CdGa ₂ O ₄ (s)		299
CaO(s)		287	CdGa ₂ S ₄ (s)		299
CaO(l)		287	CdGa ₈ S ₁₃ (s)		299
CaO(g)		288	CdH ₂ O ₂ (s)	Cd(OH) ₂	299
CaO ₂ (s)		288	CdI ₂ (s)		299
CaO ₃ S(s)	CaSO ₃	288	CdI ₂ (l)		300
CaO ₃ Si(s)	CaO · SiO ₂	288	CdI ₂ (g)		300
CaO ₃ Ti(s)	CaO · TiO ₂	288	CdIn ₂ S ₄ (s)		300
CaO ₃ Zr(s)	CaO · ZrO ₂	289	CdN ₂ O ₆ (s)	Cd(NO ₃) ₂	300
CaO ₄ S(s)	CaSO ₄	289	CdO(s)		301
CaO ₄ U(s)	CaO · UO ₃	289	CdO(g)		301
CaO ₄ W(s)	CaO · WO ₃	289	CdO ₃ Se(s)	CdSeO ₃	301
CaO ₅ SiTi(s)	CaO · TiO ₂ · SiO ₂	289	CdO ₃ Se(l)	CdSeO ₃	301
CaO ₅ SiTi(l)	CaO · TiO ₂ · SiO ₂	290	CdO ₃ Si(s)	CdO · SiO ₂	301
CaO ₆ V ₂ (s)	CaO · V ₂ O ₅	290	CdO ₃ Ti(s)	CdO · TiO ₂	302
CaPb(s)		290	CdO ₄ S(s)	CdSO ₄	302
CaS(s)		290	CdO ₄ Se(s)	CdSeO ₄	302
CaS(g)		290	CdO ₄ W(s)	CdO · WO ₃	302
CaSe(s)		290	CdS(s)		303
CaSi(s)		290	CdS(g)		303
CaSi ₂ (s)		291	CdSb(s)		303
CaSn(s)		291	CdSb(l)		303
CaTe(s)		291	CdSe(s)		303
CaZn(s)		291	CdSe(g)		303
CaZn ₂ (s)		291	CdTe(s)		304
Ca ₂ (g)		291	CdTe(l)		304
Ca ₂ Fe ₂ O ₅ (s)	2CaO · Fe ₂ O ₃	291	CdTe(g)		304
Ca ₂ Fe ₂ O ₅ (l)	2CaO · Fe ₂ O ₃	292	Cd ₁₁ U(s)		304
Ca ₂ MgO ₇ Si ₂ (s)	2CaO · MgO · 2SiO ₂	292	Ce(s)		304
Ca ₂ O ₄ Si(s)	2CaO · SiO ₂	292	Ce(l)		305
Ca ₂ O ₇ P ₂ (s)	2CaO · P ₂ O ₅	292	Ce(g)		305
Ca ₂ O ₇ P ₂ (l)	2CaO · P ₂ O ₅	293	CeCl ₃ (s)		305
Ca ₂ O ₇ V ₂ (s)	2CaO · V ₂ O ₅	293	CeCl ₃ (l)		306
Ca ₂ Pb(s)		293	CeCl ₃ (g)		306
Ca ₂ Si(s)		294	CeCrO ₃ (s)		306
Ca ₂ Sn(s)		294	CeF ₃ (s)		306
Ca ₃ MgO ₈ Si ₂ (s)	3CaO · MgO · 2SiO ₂	294	CeF ₃ (l)		306
Ca ₃ N ₂ (s)		294	CeF ₃ (g)		307
Ca ₃ O ₅ Si(s)	3CaO · SiO ₂	294	CeF ₄ (g)		307
Ca ₃ O ₆ W(s)	3CaO · WO ₃	294	CeH ₂ (s)		307
Ca ₃ O ₇ Si ₂ (s)	3CaO · 2SiO ₂	295	CeI ₃ (s)		307
Ca ₃ O ₇ Ti ₂ (s)	3CaO · 2TiO ₂	295	CeI ₃ (l)		307
			CeI ₃ (g)		307
			CeMg(s)	MgCe	308

CeN(s)		308	ClKO ₄ (s)	KClO ₄	321
CeO(g)		308	ClLaO(s)	LaOCl	321
CeO ₂ (s)		308	CLi(s)	LiCl	321
CeO ₃ Sr(s)	SrO · CeO ₂	308	CLi(l)	LiCl	322
CeS(s)		308	CLi(g)	LiCl	322
CeS(g)		309	CLiO(g)	LiOCl	322
CeS ₂ (s)		309	CLiO ₄ (s)	LiClO ₄	322
CeSe(g)		309	CLiO ₄ (l)	LiClO ₄	323
CeTe(s)		309	ClMg(g)	MgCl	323
CeTe(g)		309	ClMo(g)	MoCl	323
Ce ₂ Cr ₂ O ₆ (s)	Ce ₂ O ₃ · Cr ₂ O ₃	309	ClNO(g)	NOCl	323
Ce ₂ O ₂ S(s)		309	ClNO ₂ (g)	NO ₂ Cl	323
Ce ₂ O ₃ (s)		310	ClNa(s)	NaCl	324
Ce ₂ O ₇ Si ₂ (s)	Ce ₂ Si ₂ O ₇	310	ClNa(l)	NaCl	324
Ce ₂ O ₁₂ S ₃ (s)	Ce ₂ (SO ₄) ₃	310	ClNa(g)	NaCl	324
Ce ₂ S ₃ (s)		310	ClNaO ₃ (s)	NaClO ₃	324
Ce ₂ Se ₃ (s)		310	ClNaO ₃ (l)	NaClO ₃	325
Ce ₂ Te ₃ (s)		310	ClNaO ₄ (s)	NaClO ₄	325
Ce ₃ S ₄ (s)		310	ClNbO ₂ (s)	NbO ₂ Cl	325
Cl(g)		311	ClNdO(s)	NdOCl	326
ClCo(g)	CoCl	311	ClNi(g)	NiCl	326
ClCs(s)	CsCl	311	ClO(g)		326
ClCs(l)	CsCl	311	ClOPu(s)	PuOCl	326
ClCs(g)	CsCl	312	ClOSb(s)	SbOCl	326
ClCsO ₄ (s)	CsClO ₄	312	ClOSm(s)	SmOCl	326
ClCu(s)	CuCl	312	ClOTi(g)	TiOCl	327
ClCu(l)	CuCl	313	ClOU(s)	UOCl	327
ClCu(g)	CuCl	313	ClOV(s)	VOCl	327
ClD(g)	DCl	314	ClOV(g)	VOCl	327
ClDO(g)	DOCl	314	ClO ₂ (g)	OCIO	327
ClF(g)		314	ClO ₂ (g)	ClOO	327
ClFLi ₂ (g)	Li ₂ ClF	314	ClO ₂ Ta(s)	TaO ₂ Cl	328
ClFMg(g)	MgClF	314	ClO ₂ U(s)	UO ₂ Cl	328
ClFO ₂ S(g)	SO ₂ ClF	314	ClO ₃ (g)		328
ClFO ₃ (g)	ClO ₃ F	315	ClP(g)	PCl	328
ClF ₂ OP(g)	POClF ₂	315	ClPb(g)	PbCl	328
ClF ₃ (g)		315	ClRb(s)	RbCl	328
ClF ₃ Si(g)	SiClF ₃	315	ClRb(l)	RbCl	329
ClF ₅ (g)		315	ClRb(g)	RbCl	329
ClF ₅ S(g)	SClF ₅	315	ClS(g)	SCl	329
ClFe(g)	FeCl	316	ClS ₂ (g)	S ₂ Cl	329
ClFeO(s)	FeOCl	316	ClSb(g)	SbCl	329
ClGa(g)	GaCl	316	ClSc(g)	ScCl	330
ClGdO(s)	GdOCl	316	ClSi(g)	SiCl	330
ClGe(g)	GeCl	316	ClSr(g)	SrCl	330
ClH(g)	HCl	316	ClTa(g)	TaCl	330
ClHO(g)	HOCl	317	ClTi(g)	TiCl	330
ClH ₂ LiO(s)	LiCl · H ₂ O	317	ClTi(s)	TiCl	330
ClH ₃ Si(g)	SiH ₃ Cl	317	ClTi(l)	TiCl	331
ClH ₄ N(s)	NH ₄ Cl	317	ClTi(g)	TiCl	331
ClH ₄ NO ₄ (s)	NH ₄ ClO ₄	318	ClW(g)	WCl	331
ClHg(g)	HgCl	318	ClY(g)	YCl	331
ClI(s)	ICl	318	ClZr(s)	ZrCl	331
ClI(l)	ICl	318	ClZr(g)	ZrCl	331
ClI(g)	ICl	318	Cl ₂ (g)		332
ClIn(s)	InCl	319	Cl ₂ Co(s)	CoCl ₂	332
ClIn(l)	InCl	319	Cl ₂ Co(l)	CoCl ₂	332
ClIn(g)	InCl	319	Cl ₂ Co(g)	CoCl ₂	332
ClK(s)	KCl	320	Cl ₂ Cr(s)	CrCl ₂	333
ClK(l)	KCl	320	Cl ₂ Cr(l)	CrCl ₂	333
ClK(g)	KCl	320	Cl ₂ Cr(g)	CrCl ₂	333
ClKO ₃ (s)	KClO ₃	320	Cl ₂ CrO(g)	CrOCl ₂	333

$\text{Cl}_2\text{CrO}_2(\text{l})$	CrO_2Cl_2	334	$\text{Cl}_2\text{Pd}(\text{s})$	PdCl_2	347
$\text{Cl}_2\text{CrO}_2(\text{g})$	CrO_2Cl_2	334	$\text{Cl}_2\text{Pd}(\text{l})$	PdCl_2	347
$\text{Cl}_2\text{Cs}_2(\text{g})$	$(\text{CsCl})_2$	334	$\text{Cl}_2\text{Pd}(\text{g})$	PdCl_2	348
$\text{Cl}_2\text{Cu}(\text{s})$	CuCl_2	334	$\text{Cl}_2\text{Pt}(\text{s})$	PtCl_2	348
$\text{Cl}_2\text{CuH}_4\text{O}_2(\text{s})$	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	334	$\text{Cl}_2\text{Pt}(\text{g})$	PtCl_2	348
$\text{Cl}_2\text{FOP}(\text{g})$	POCl_2F	335	$\text{Cl}_2\text{Rb}_2(\text{g})$	$(\text{RbCl})_2$	348
$\text{Cl}_2\text{Fe}(\text{s})$	FeCl_2	335	$\text{Cl}_2\text{Rh}(\text{g})$	RhCl_2	348
$\text{Cl}_2\text{Fe}(\text{l})$	FeCl_2	335	$\text{Cl}_2\text{S}(\text{l})$	SCl_2	349
$\text{Cl}_2\text{Fe}(\text{g})$	FeCl_2	335	$\text{Cl}_2\text{S}(\text{g})$	SCl_2	349
$\text{Cl}_2\text{Ga}(\text{g})$	GaCl_2	336	$\text{Cl}_2\text{S}_2(\text{l})$	S_2Cl_2	349
$\text{Cl}_2\text{Ge}(\text{g})$	GeCl_2	336	$\text{Cl}_2\text{S}_2(\text{g})$	ClSSCl	349
$\text{Cl}_2\text{H}_2\text{Si}(\text{g})$	SiH_2Cl_2	336	$\text{Cl}_2\text{Se}(\text{g})$	SeCl_2	349
$\text{Cl}_2\text{Hf}(\text{g})$	HfCl_2	336	$\text{Cl}_2\text{Se}_2(\text{l})$	Se_2Cl_2	349
$\text{Cl}_2\text{Hg}(\text{s})$	HgCl_2	337	$\text{Cl}_2\text{Se}_2(\text{g})$	Se_2Cl_2	350
$\text{Cl}_2\text{Hg}(\text{l})$	HgCl_2	337	$\text{Cl}_2\text{Si}(\text{g})$	SiCl_2	350
$\text{Cl}_2\text{Hg}(\text{g})$	HgCl_2	337	$\text{Cl}_2\text{Sm}(\text{s})$	SmCl_2	350
$\text{Cl}_2\text{Hg}_2(\text{s})$	Hg_2Cl_2	337	$\text{Cl}_2\text{Sm}(\text{l})$	SmCl_2	350
$\text{Cl}_2\text{In}(\text{s})$	InCl_2	338	$\text{Cl}_2\text{Sm}(\text{g})$	SmCl_2	350
$\text{Cl}_2\text{In}(\text{l})$	InCl_2	338	$\text{Cl}_2\text{Sn}(\text{s})$	SnCl_2	351
$\text{Cl}_2\text{In}_2(\text{g})$	In_2Cl_2	338	$\text{Cl}_2\text{Sn}(\text{l})$	SnCl_2	351
$\text{Cl}_2\text{K}_2(\text{g})$	$(\text{KCl})_2$	338	$\text{Cl}_2\text{Sn}(\text{g})$	SnCl_2	351
$\text{Cl}_2\text{Li}_2(\text{g})$	$(\text{LiCl})_2$	338	$\text{Cl}_2\text{Sr}(\text{s})$	SrCl_2	351
$\text{Cl}_2\text{Mg}(\text{s})$	MgCl_2	339	$\text{Cl}_2\text{Sr}(\text{l})$	SrCl_2	352
$\text{Cl}_2\text{Mg}(\text{l})$	MgCl_2	339	$\text{Cl}_2\text{Sr}(\text{g})$	SrCl_2	352
$\text{Cl}_2\text{Mg}(\text{g})$	MgCl_2	339	$\text{Cl}_2\text{Ta}(\text{g})$	TaCl_2	352
$\text{Cl}_2\text{Mn}(\text{s})$	MnCl_2	339	$\text{Cl}_2\text{Te}(\text{s})$	TeCl_2	352
$\text{Cl}_2\text{Mn}(\text{l})$	MnCl_2	340	$\text{Cl}_2\text{Te}(\text{l})$	TeCl_2	353
$\text{Cl}_2\text{Mn}(\text{g})$	MnCl_2	340	$\text{Cl}_2\text{Te}(\text{g})$	TeCl_2	353
$\text{Cl}_2\text{Mo}(\text{s})$	MoCl_2	340	$\text{Cl}_2\text{Ti}(\text{s})$	TiCl_2	353
$\text{Cl}_2\text{Mo}(\text{g})$	MoCl_2	340	$\text{Cl}_2\text{Ti}(\text{g})$	TiCl_2	353
$\text{Cl}_2\text{MoO}_2(\text{s})$	MoO_2Cl_2	341	$\text{Cl}_2\text{Ti}_2(\text{g})$	$(\text{TiCl})_2$	353
$\text{Cl}_2\text{MoO}_2(\text{g})$	MoO_2Cl_2	341	$\text{Cl}_2\text{V}(\text{s})$	VOCl_2	353
$\text{Cl}_2\text{Na}_2(\text{g})$	$(\text{NaCl})_2$	341	$\text{Cl}_2\text{V}(\text{g})$	VCl_2	354
$\text{Cl}_2\text{Nb}(\text{s})$	NbCl_2	342	$\text{Cl}_2\text{W}(\text{s})$	WCl_2	354
$\text{Cl}_2\text{NbO}(\text{s})$	NbOCl_2	342	$\text{Cl}_2\text{W}(\text{g})$	WCl_2	354
$\text{Cl}_2\text{Ni}(\text{s})$	NiCl_2	342	$\text{Cl}_2\text{Yb}(\text{s})$	YbCl_2	354
$\text{Cl}_2\text{Ni}(\text{l})$	NiCl_2	342	$\text{Cl}_2\text{Zn}(\text{s})$	ZnCl_2	354
$\text{Cl}_2\text{Ni}(\text{g})$	NiCl_2	342	$\text{Cl}_2\text{Zn}(\text{l})$	ZnCl_2	355
$\text{Cl}_2\text{O}(\text{g})$	ClOCl	342	$\text{Cl}_2\text{Zn}(\text{g})$	ZnCl_2	355
$\text{Cl}_2\text{O}(\text{g})$	ClClO	343	$\text{Cl}_2\text{Zr}(\text{s})$	ZrCl_2	355
$\text{Cl}_2\text{OS}(\text{l})$	SOCl_2	343	$\text{Cl}_2\text{Zr}(\text{l})$	ZrCl_2	355
$\text{Cl}_2\text{OS}(\text{g})$	SOCl_2	343	$\text{Cl}_2\text{Zr}(\text{g})$	ZrCl_2	355
$\text{Cl}_2\text{OSe}(\text{l})$	SeOCl_2	343	$\text{Cl}_{2.33}\text{Nb}(\text{s})$	$\text{NbCl}_{2.33}$	355
$\text{Cl}_2\text{OTe}(\text{g})$	TeOCl_2	343	$\text{Cl}_{2.67}\text{Nb}(\text{s})$	$\text{NbCl}_{2.67}$	356
$\text{Cl}_2\text{OTh}(\text{s})$	ThOCl_2	343	$\text{Cl}_3\text{Co}(\text{g})$	CoCl_3	356
$\text{Cl}_2\text{OTi}(\text{g})$	TiOCl_2	344	$\text{Cl}_3\text{Cr}(\text{s})$	CrCl_3	356
$\text{Cl}_2\text{OU}(\text{s})$	UOCl_2	344	$\text{Cl}_3\text{Cr}(\text{g})$	CrCl_3	356
$\text{Cl}_2\text{OV}(\text{s})$	VOCl_2	344	$\text{Cl}_3\text{CsMg}(\text{s})$	$\text{CsCl} \cdot \text{MgCl}_2$	356
$\text{Cl}_2\text{OV}(\text{g})$	VOCl_2	344	$\text{Cl}_3\text{Cu}_3(\text{g})$	$(\text{CuCl})_3$	357
$\text{Cl}_2\text{O}_2(\text{g})$	ClO_2Cl	344	$\text{Cl}_3\text{Dy}(\text{s})$	DyCl_3	357
$\text{Cl}_2\text{O}_2(\text{g})$	ClOClO	344	$\text{Cl}_3\text{Dy}(\text{l})$	DyCl_3	357
$\text{Cl}_2\text{O}_2(\text{g})$	ClClO_2	345	$\text{Cl}_3\text{Dy}(\text{g})$	DyCl_3	357
$\text{Cl}_2\text{O}_2\text{S}(\text{l})$	SO_2Cl_2	345	$\text{Cl}_3\text{DyH}_{12}\text{O}_6(\text{s})$	$\text{DyCl}_3 \cdot 6\text{H}_2\text{O}$	358
$\text{Cl}_2\text{O}_2\text{S}(\text{g})$	SO_2Cl_2	345	$\text{Cl}_3\text{Er}(\text{s})$	ErCl_3	358
$\text{Cl}_2\text{O}_2\text{U}(\text{s})$	UO_2Cl_2	345	$\text{Cl}_3\text{Er}(\text{l})$	ErCl_3	358
$\text{Cl}_2\text{O}_2\text{U}(\text{l})$	UO_2Cl_2	345	$\text{Cl}_3\text{Er}(\text{g})$	ErCl_3	358
$\text{Cl}_2\text{O}_2\text{U}(\text{g})$	UO_2Cl_2	346	$\text{Cl}_3\text{ErH}_{12}\text{O}_6(\text{s})$	$\text{ErCl}_3 \cdot 6\text{H}_2\text{O}$	359
$\text{Cl}_2\text{O}_2\text{W}(\text{s})$	WO_2Cl_2	346	$\text{Cl}_3\text{Eu}(\text{s})$	EuCl_3	359
$\text{Cl}_2\text{O}_2\text{W}(\text{g})$	WO_2Cl_2	346	$\text{Cl}_3\text{Eu}(\text{l})$	EuCl_3	359
$\text{Cl}_2\text{Pb}(\text{s})$	PbCl_2	346	$\text{Cl}_3\text{Eu}(\text{g})$	EuCl_3	359
$\text{Cl}_2\text{Pb}(\text{l})$	PbCl_2	347	$\text{Cl}_3\text{EuH}_{12}\text{O}_6(\text{s})$	$\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$	360
$\text{Cl}_2\text{Pb}(\text{g})$	PbCl_2	347	$\text{Cl}_3\text{FSi}(\text{g})$	SiCl_3F	360

$\text{Cl}_3\text{Fe(s)}$	FeCl_3	360	$\text{Cl}_3\text{Rh(s)}$	RhCl_3	373
$\text{Cl}_3\text{Fe(l)}$	FeCl_3	360	$\text{Cl}_3\text{Rh(g)}$	RhCl_3	373
$\text{Cl}_3\text{Fe(g)}$	FeCl_3	361	$\text{Cl}_3\text{Ru(s)}$	RuCl_3	373
$\text{Cl}_3\text{Ga(s)}$	GaCl_3	361	$\text{Cl}_3\text{Ru(g)}$	RuCl_3	373
$\text{Cl}_3\text{Ga(l)}$	GaCl_3	361	$\text{Cl}_3\text{Sb(s)}$	SbCl_3	373
$\text{Cl}_3\text{Ga(g)}$	GaCl_3	361	$\text{Cl}_3\text{Sb(l)}$	SbCl_3	374
$\text{Cl}_3\text{Gd(s)}$	GdCl_3	362	$\text{Cl}_3\text{Sb(g)}$	SbCl_3	374
$\text{Cl}_3\text{Gd(l)}$	GdCl_3	362	$\text{Cl}_3\text{Sc(s)}$	ScCl_3	374
$\text{Cl}_3\text{Gd(g)}$	GdCl_3	362	$\text{Cl}_3\text{Sc(l)}$	ScCl_3	374
$\text{Cl}_3\text{Ge(g)}$	GeCl_3	362	$\text{Cl}_3\text{Sc(g)}$	ScCl_3	375
$\text{Cl}_3\text{HSi(g)}$	SiHCl_3	362	$\text{Cl}_3\text{Si(g)}$	SiCl_3	375
$\text{Cl}_3\text{H}_{12}\text{N}_4\text{Sc(s)}$	$\text{ScCl}_3 \cdot 4\text{NH}_3$	363	$\text{Cl}_3\text{Sm(s)}$	SmCl_3	375
$\text{Cl}_3\text{H}_{14}\text{LaO}_7\text{(s)}$	$\text{LaCl}_3 \cdot 7\text{H}_2\text{O}$	363	$\text{Cl}_3\text{Sm(l)}$	SmCl_3	375
$\text{Cl}_3\text{H}_{15}\text{N}_5\text{Sc(s)}$	$\text{ScCl}_3 \cdot 5\text{NH}_3$	363	$\text{Cl}_3\text{Ta(s)}$	TaCl_3	375
$\text{Cl}_3\text{H}_{21}\text{N}_7\text{Sc(s)}$	$\text{ScCl}_3 \cdot 7\text{NH}_3$	363	$\text{Cl}_3\text{Ta(g)}$	TaCl_3	376
$\text{Cl}_3\text{Hf(g)}$	HfCl_3	363	$\text{Cl}_3\text{Tb(s)}$	TbCl_3	376
$\text{Cl}_3\text{Ho(s)}$	HoCl_3	363	$\text{Cl}_3\text{Tb(l)}$	TbCl_3	376
$\text{Cl}_3\text{Ho(l)}$	HoCl_3	364	$\text{Cl}_3\text{Tb(g)}$	TbCl_3	377
$\text{Cl}_3\text{Ho(g)}$	HoCl_3	364	$\text{Cl}_3\text{Ti(s)}$	TiCl_3	377
$\text{Cl}_3\text{In(s)}$	InCl_3	364	$\text{Cl}_3\text{Ti(g)}$	TiCl_3	377
$\text{Cl}_3\text{In(g)}$	InCl_3	364	$\text{Cl}_3\text{Ti(l)}$	TiCl_3	377
$\text{Cl}_3\text{Ir(s)}$	IrCl_3	365	$\text{Cl}_3\text{Tm(s)}$	TmCl_3	377
$\text{Cl}_3\text{KMg(s)}$	$\text{KCl} \cdot \text{MgCl}_2$	365	$\text{Cl}_3\text{Tm(l)}$	TmCl_3	378
$\text{Cl}_3\text{La(s)}$	LaCl_3	365	$\text{Cl}_3\text{Tm(g)}$	TmCl_3	378
$\text{Cl}_3\text{La(l)}$	LaCl_3	365	$\text{Cl}_3\text{U(s)}$	UCl_3	378
$\text{Cl}_3\text{La(g)}$	LaCl_3	366	$\text{Cl}_3\text{U(l)}$	UCl_3	378
$\text{Cl}_3\text{Li}_3\text{(g)}$	$(\text{LiCl})_3$	366	$\text{Cl}_3\text{U(g)}$	UCl_3	379
$\text{Cl}_3\text{Lu(s)}$	LuCl_3	366	$\text{Cl}_3\text{V(s)}$	VCl_3	379
$\text{Cl}_3\text{Lu(g)}$	LuCl_3	366	$\text{Cl}_3\text{V(g)}$	VCl_3	379
$\text{Cl}_3\text{MgNa(s)}$	$\text{NaCl} \cdot \text{MgCl}_2$	366	$\text{Cl}_3\text{V(s)}$	YCl_3	379
$\text{Cl}_3\text{MgRb(s)}$	$\text{RbCl} \cdot \text{MgCl}_2$	366	$\text{Cl}_3\text{Y(l)}$	YCl_3	379
$\text{Cl}_3\text{Mo(s)}$	MoCl_3	367	$\text{Cl}_3\text{Y(g)}$	YCl_3	380
$\text{Cl}_3\text{Mo(g)}$	MoCl_3	367	$\text{Cl}_3\text{Yb(s)}$	YbCl_3	380
$\text{Cl}_3\text{NaSn(g)}$	NaSnCl_3	367	$\text{Cl}_3\text{Yb(l)}$	YbCl_3	380
$\text{Cl}_3\text{Nb(s)}$	NbCl_3	367	$\text{Cl}_3\text{Yb(g)}$	YbCl_3	380
$\text{Cl}_3\text{NbO(s)}$	NbOCl_3	367	$\text{Cl}_3\text{Zr(s)}$	ZrCl_3	381
$\text{Cl}_3\text{NbO(g)}$	NbOCl_3	367	$\text{Cl}_3\text{Zr(g)}$	ZrCl_3	381
$\text{Cl}_3\text{Nd(s)}$	NdCl_3	368	$\text{Cl}_{3,13}\text{Nb(s)}$	$\text{NbCl}_{3,13}$	381
$\text{Cl}_3\text{Nd(l)}$	NdCl_3	368	$\text{Cl}_4\text{Co}_2\text{(g)}$	$(\text{CoCl}_2)_2$	381
$\text{Cl}_3\text{Nd(g)}$	NdCl_3	368	$\text{Cl}_4\text{Cr(g)}$	CrCl_4	381
$\text{Cl}_3\text{Np(s)}$	NpCl_3	368	$\text{Cl}_4\text{Cs}_2\text{Mg(s)}$	$2\text{CsCl} \cdot \text{MgCl}_2$	381
$\text{Cl}_3\text{OP(l)}$	POCl_3	369	$\text{Cl}_4\text{FeNa(g)}$	NaFeCl_4	382
$\text{Cl}_3\text{OP(g)}$	POCl_3	369	$\text{Cl}_4\text{Fe}_2\text{(g)}$	$(\text{FeCl}_2)_2$	382
$\text{Cl}_3\text{OTa(s)}$	TaOCl_3	369	$\text{Cl}_4\text{Ga}_2\text{(g)}$	Ga_2Cl_4	382
$\text{Cl}_3\text{OTa(g)}$	TaOCl_3	369	$\text{Cl}_4\text{Ge(l)}$	GeCl_4	382
$\text{Cl}_3\text{OU(s)}$	UOCl_3	369	$\text{Cl}_4\text{Ge(g)}$	GeCl_4	382
$\text{Cl}_3\text{OV(l)}$	VOCl_3	369	$\text{Cl}_4\text{Hf(s)}$	HfCl_4	383
$\text{Cl}_3\text{OV(g)}$	VOCl_3	370	$\text{Cl}_4\text{Hf(g)}$	HfCl_4	383
$\text{Cl}_3\text{O}_4\text{U}_2\text{(s)}$	$\text{U}_2\text{O}_4\text{Cl}_3$	370	$\text{Cl}_4\text{In}_2\text{(g)}$	In_2Cl_4	383
$\text{Cl}_3\text{P(l)}$	PCl_3	370	$\text{Cl}_4\text{K}_2\text{Mg(s)}$	$2\text{KCl} \cdot \text{MgCl}_2$	383
$\text{Cl}_3\text{P(g)}$	PCl_3	370	$\text{Cl}_4\text{MgNa}_2\text{(s)}$	$2\text{NaCl} \cdot \text{MgCl}_2$	383
$\text{Cl}_3\text{PS(g)}$	SPCl_3	370	$\text{Cl}_4\text{MgRb}_2\text{(s)}$	$2\text{RbCl} \cdot \text{MgCl}_2$	383
$\text{Cl}_3\text{Pm(s)}$	PmCl_3	370	$\text{Cl}_4\text{Mg}_2\text{(g)}$	$(\text{MgCl}_2)_2$	384
$\text{Cl}_3\text{Pr(s)}$	PrCl_3	371	$\text{Cl}_4\text{Mn}_2\text{(g)}$	Mn_2Cl_4	384
$\text{Cl}_3\text{Pr(l)}$	PrCl_3	371	$\text{Cl}_4\text{Mo(s)}$	MoCl_4	384
$\text{Cl}_3\text{Pr(g)}$	PrCl_3	371	$\text{Cl}_4\text{Mo(g)}$	MoCl_4	384
$\text{Cl}_3\text{Pt(s)}$	PtCl_3	371	$\text{Cl}_4\text{Nb(s)}$	NbCl_4	385
$\text{Cl}_3\text{Pt(g)}$	PtCl_3	371	$\text{Cl}_4\text{Nb(g)}$	NbCl_4	385
$\text{Cl}_3\text{Pu(s)}$	PuCl_3	372	$\text{Cl}_4\text{Np(s)}$	NpCl_4	385
$\text{Cl}_3\text{Pu(l)}$	PuCl_3	372	$\text{Cl}_4\text{ORe(g)}$	ReOCl_4	385
$\text{Cl}_3\text{Re(s)}$	ReCl_3	372	$\text{Cl}_4\text{OW(s)}$	WOCl_4	385
$\text{Cl}_3\text{Re(g)}$	ReCl_3	372	$\text{Cl}_4\text{OW(l)}$	WOCl_4	385

Cl ₄ OW(g)	WOCl ₄	386	Cl ₅ W(g)	WCl ₅	399
Cl ₄ Pb(g)	PbCl ₄	386	Cl ₆ Cs ₂ LaNa(s)	Cs ₂ NaLaCl ₆	399
Cl ₄ Pt(s)	PtCl ₄	386	Cl ₆ EuH ₁₂ N ₃ (s)	(NH ₄) ₃ EuCl ₆	399
Cl ₄ Pu(g)	PuCl ₄	386	Cl ₆ Fe ₂ (g)	(FeCl ₃) ₂	399
Cl ₄ Rh(g)	RhCl ₄	386	Cl ₆ Ga ₂ (g)	(GaCl ₃) ₂	399
Cl ₄ Ru(g)	RuCl ₄	386	Cl ₆ H ₁₂ N ₃ Y(s)	(NH ₄) ₃ YCl ₆	400
Cl ₄ Se(s)	SeCl ₄	387	Cl ₆ In ₂ (g)	(InCl ₃) ₂	400
Cl ₄ Si(l)	SiCl ₄	387	Cl ₆ K ₄ Mg(s)	4KCl · MgCl ₂	400
Cl ₄ Si(g)	SiCl ₄	387	Cl ₆ Mo(s)	MoCl ₆	400
Cl ₄ Sn(l)	SnCl ₄	388	Cl ₆ Mo(g)	MoCl ₆	400
Cl ₄ Sn(g)	SnCl ₄	388	Cl ₆ Sc ₂ (g)	(ScCl ₃) ₂	400
Cl ₄ Ta(s)	TaCl ₄	388	Cl ₆ Ti ₂ (g)	(TiCl ₃) ₂	401
Cl ₄ Ta(g)	TaCl ₄	388	Cl ₆ U(s)	UCl ₆	401
Cl ₄ Te(s)	TeCl ₄	388	Cl ₆ U(g)	UCl ₆	401
Cl ₄ Te(l)	TeCl ₄	389	Cl ₆ W(s)	WCl ₆	401
Cl ₄ Te(g)	TeCl ₄	389	Cl ₆ W(l)	WCl ₆	402
Cl ₄ Th(s)	ThCl ₄	389	Cl ₆ W(g)	WCl ₆	403
Cl ₄ Th(l)	ThCl ₄	390	Cl ₇ Eu ₂ H ₄ N(s)	NH ₄ Eu ₂ Cl ₇	403
Cl ₄ Th(g)	ThCl ₄	390	Cl ₇ H ₄ NNd ₂ (s)	NH ₄ Nd ₂ Cl ₇	403
Cl ₄ Ti(s)	TiCl ₄	390	Cl ₇ H ₄ NSm ₂ (s)	NH ₄ Sm ₂ Cl ₇	403
Cl ₄ Ti(l)	TiCl ₄	391	Cl ₇ H ₄ NY ₂ (s)	NH ₄ Y ₂ Cl ₇	403
Cl ₄ Ti(g)	TiCl ₄	391	Cl ₇ K ₃ Mg ₂ (s)	3KCl · 2MgCl ₂	403
Cl ₄ U(s)	UCl ₄	391	Cl ₇ Mg ₂ Rb ₃ (s)	3RbCl · 2MgCl ₂	403
Cl ₄ U(l)	UCl ₄	391	Cl ₆ CoFe ₂ (g)	CoFe ₂ Cl ₆	404
Cl ₄ U(g)	UCl ₄	392	Cl ₆ CoGa ₂ (g)	CoGa ₂ Cl ₆	404
Cl ₄ V(l)	VCl ₄	392	Cl ₆ CrGa ₂ (g)	CrGa ₂ Cl ₆	404
Cl ₄ V(g)	VCl ₄	392	Cl ₆ CuGa ₂ (g)	CuGa ₂ Cl ₆	404
Cl ₄ W(s)	WCl ₄	392	Cl ₆ FeGa ₂ (g)	FeGa ₂ Cl ₆	404
Cl ₄ W(g)	WCl ₄	392	Cl ₆ Fe ₂ Mn(g)	MnFe ₂ Cl ₆	404
Cl ₄ Zr(s)	ZrCl ₄	393	Cl ₆ Fe ₂ Ni(g)	NiFe ₂ Cl ₆	404
Cl ₄ Zr(g)	ZrCl ₄	393	Cl ₆ Ga ₂ Mn(g)	MnGa ₂ Cl ₆	405
Cl ₅ CoGa(g)	CoGaCl ₅	393	Cl ₆ Ga ₂ Ni(g)	NiGa ₂ Cl ₆	405
Cl ₅ CrGa(g)	CrGaCl ₅	393	Cl ₆ In ₂ Mn(g)	MnIn ₂ Cl ₆	405
Cl ₅ Cs ₃ Mg(s)	3CsCl · MgCl ₂	393	Cl ₆ MgNa ₆ (s)	6NaCl · MgCl ₂	405
Cl ₅ CuGa(g)	CuGaCl ₅	393	Cl ₆ Mg ₃ Na ₂ (s)	2NaCl · 3MgCl ₂	405
Cl ₅ EuH ₈ N ₂ (s)	(NH ₄) ₂ EuCl ₅	394	Cl ₆ U ₂ (g)	(UCl ₄) ₂	405
Cl ₅ FeGa(g)	FeGaCl ₅	394	Cl ₉ CsMg ₄ (s)	CsCl · 4MgCl ₂	406
Cl ₅ GaMn(g)	MnGaCl ₅	394	Cl ₁₀ U ₂ (g)	(UCl ₅) ₂	406
Cl ₅ GaNi(g)	NiGaCl ₅	394	Cl ₁₀ W ₂ (g)	(WCl ₅) ₂	406
Cl ₅ H ₈ LaN ₂ (s)	(NH ₄) ₂ LaCl ₅	394	Cl ₁₂ Pt ₆ (g)	(PtCl ₂) ₆	406
Cl ₅ H ₈ N ₂ Nd(s)	(NH ₄) ₂ NdCl ₅	394	Co(s)		406
Cl ₅ H ₈ N ₂ Sm(s)	(NH ₄) ₂ SmCl ₅	394	Co(l)		407
Cl ₅ InMn(g)	MnInCl ₅	395	Co(g)		407
Cl ₅ Mo(s)	MoCl ₅	395	CoCr ₂ O ₄ (s)	CoO · Cr ₂ O ₃	407
Cl ₅ Mo(l)	MoCl ₅	395	CoF ₂ (s)		408
Cl ₅ Mo(g)	MoCl ₅	395	CoF ₂ (l)		408
Cl ₅ Nb(s)	NbCl ₅	395	CoF ₂ (g)		408
Cl ₅ Nb(l)	NbCl ₅	396	CoF ₃ (s)		408
Cl ₅ Nb(g)	NbCl ₅	396	CoFe ₂ O ₄ (s)	CoO · Fe ₂ O ₃	409
Cl ₅ O ₂ U ₂ (s)	U ₂ O ₂ Cl ₅	396	CoH ₂ O ₂ (s)	Co(OH) ₂	409
Cl ₅ P(s)	PCl ₅	396	CoH ₁₂ O ₁₀ S(s)	CoSO ₄ · 6H ₂ O	409
Cl ₅ P(g)	PCl ₅	396	CoH ₁₄ O ₁₁ S(s)	CoSO ₄ · 7H ₂ O	409
Cl ₅ Re(g)	ReCl ₅	397	CoI ₂ (s)		409
Cl ₅ Sb(l)	SbCl ₅	397	CoI ₂ (l)		409
Cl ₅ Sb(g)	SbCl ₅	397	CoI ₂ (g)		410
Cl ₅ Ta(s)	TaCl ₅	397	CoN ₂ O ₆ (s)	Co(NO ₃) ₂	410
Cl ₅ Ta(l)	TaCl ₅	397	CoO(s)		410
Cl ₅ Ta(g)	TaCl ₅	398	CoO ₃ Se(s)	CoSeO ₃	410
Cl ₅ U(s)	UCl ₅	398	CoO ₃ Se(l)	CoSeO ₃	410
Cl ₅ U(g)	UCl ₅	398	CoO ₃ Ti(s)	CoO · TiO ₂	411
Cl ₅ W(s)	WCl ₅	398	CoO ₄ S(s)	CoSO ₄	411
Cl ₅ W(l)	WCl ₅	398			

CoO ₄ W(s)	CoO · WO ₃	411	Cr ₂ CuO ₄ (s)	CuO · Cr ₂ O ₃	422
CoP(s)		411	Cr ₂ FeO ₄ (s)	FeO · Cr ₂ O ₃	423
CoP ₃ (s)		412	Cr ₂ I ₄ (g)		423
CoS _{0.89} (s)		412	Cr ₂ K ₂ O ₇ (s)	K ₂ Cr ₂ O ₇	423
CoS ₂ (s)		412	Cr ₂ MgO ₄ (s)	MgO · Cr ₂ O ₃	423
CoSb(s)		412	Cr ₂ N(s)		423
CoSb ₂ (s)		412	Cr ₂ Na ₂ O ₄ (s)	Na ₂ O · Cr ₂ O ₃	423
CoSb ₃ (s)		412	Cr ₂ Na ₂ O ₇ (s)	Na ₂ Cr ₂ O ₇	424
CoSe _{0.889} (s)		412	Cr ₂ Nb(s)	NbCr ₂	424
CoSe _{1.11} (s)		413	Cr ₂ NiO ₄ (s)	NiO · Cr ₂ O ₃	424
CoSe _{1.25} (s)		413	Cr ₂ O ₃ (s)		424
CoSe ₂ (s)		413	Cr ₂ O ₃ (l)		424
CoSi(s)		413	Cr ₂ O ₄ Zn(s)	ZnO · Cr ₂ O ₃	424
CoSi(l)		413	Cr ₂ O ₁₂ S ₃ (s)	Cr ₂ (SO ₄) ₃	425
CoSi ₂ (s)		413	Cr ₂ S ₃ (s)		425
CoSi ₂ (l)		414	Cr ₂ Ta(s)	TaCr ₂	425
CoSn(s)		414	Cr ₃ La ₂ O ₁₂ (s)	La ₂ (CrO ₄) ₃	425
CoTe ₂ (s)		414	Cr ₃ Si(s)		425
Co ₂ I ₄ (g)		414	Cr ₅ Si ₃ (s)		425
Co ₂ O ₄ Si(s)	2CoO · SiO ₂	414	Cs(s)		426
Co ₂ O ₄ Si(l)	2CoO · SiO ₂	414	Cs(l)		426
Co ₂ O ₄ Ti(s)	2CoO · TiO ₂	415	Cs(g)		426
Co ₂ P(s)		415	CsF(s)		426
Co ₂ Si(s)		415	CsF(l)		427
Co ₃ N(s)		415	CsF(g)		427
Co ₃ O ₄ (s)		415	CsH(s)		427
Co ₃ S ₄ (s)		415	CsH(g)		427
Cr(s)		416	CsHO(s)	CsOH	427
Cr(l)		416	CsHO(l)	CsOH	428
Cr(g)		416	CsHO(g)	CsOH	428
CrCs ₂ O ₄ (s)	Cs ₂ O · CrO ₃	416	CsI(s)		428
CrF ₂ (s)		417	CsI(l)		428
CrF ₃ (s)		417	CsI(g)		428
CrF ₄ (s)		417	CsNO ₂ (s)		429
CrI ₂ (s)		417	CsNO ₃ (s)		429
CrI ₂ O(g)	CrOI ₂	417	CsNO ₃ (l)		429
CrI ₂ O ₂ (g)	CrO ₂ I ₂	417	CsO(g)		429
CrI ₃ (s)		418	CsO ₂ (s)		430
CrK ₂ O ₄ (s)	K ₂ CrO ₄	418	Cs ₂ (g)		430
CrK ₂ O ₄ (l)	K ₂ CrO ₄	418	Cs ₂ F ₂ (g)	(CsF) ₂	430
CrLi ₂ O ₄ (s)	Li ₂ CrO ₄	419	Cs ₂ H ₂ O ₂ (g)	(CsOH) ₂	430
CrN(s)		419	Cs ₂ I ₂ (g)	(CsI) ₂	430
CrN(g)		419	Cs ₂ MnO ₄ (s)		430
CrNaO ₂ (s)	NaCrO ₂	419	Cs ₂ MoO ₄ (s)	Cs ₂ O · MoO ₃	431
CrNa ₂ O ₄ (s)	Na ₂ CrO ₄	420	Cs ₂ MoO ₄ (l)	Cs ₂ O · MoO ₃	431
CrNa ₂ O ₄ (l)	Na ₂ CrO ₄	420	Cs ₂ NpO ₄ (s)	Cs ₂ O · NpO ₃	431
CrO(g)		420	Cs ₂ O(s)		432
CrO ₂ (s)		420	Cs ₂ O(g)		432
CrO ₂ (g)		420	Cs ₂ O ₃ Si(s)	Cs ₂ O · SiO ₂	432
CrO ₃ (s)		420	Cs ₂ O ₃ Si(l)	Cs ₂ O · SiO ₂	432
CrO ₃ (g)		421	Cs ₂ O ₃ Te(s)	Cs ₂ O · TeO ₂	432
CrO ₄ Pb(s)	PbCrO ₄	421	Cs ₂ O ₃ Zr(s)	Cs ₂ O · ZrO ₂	433
CrO ₄ Rb ₂ (s)	Rb ₂ CrO ₄	421	Cs ₂ O ₄ Ru(s)	Cs ₂ O · RuO ₃	433
CrS(s)		421	Cs ₂ O ₄ S(s)	Cs ₂ SO ₄	433
CrS(g)		421	Cs ₂ O ₄ S(l)	Cs ₂ SO ₄	434
CrS _{1.17} (s)		421	Cs ₂ O ₄ S(g)	Cs ₂ SO ₄	434
CrS _{1.2} (s)		421	Cs ₂ O ₄ U(s)	Cs ₂ O · UO ₃	434
CrS _{1.333} (s)		422	Cs ₂ O ₅ Si ₂ (s)	Cs ₂ O · 2SiO ₂	434
CrSi(s)		422	Cs ₂ O ₅ Si ₂ (l)	Cs ₂ O · 2SiO ₂	435
CrSi ₂ (s)		422	Cs ₂ O ₅ Te ₂ (s)	Cs ₂ Te ₂ O ₅	435
CrSi ₂ (l)		422	Cs ₂ O ₉ Si ₄ (s)	Cs ₂ O · 4SiO ₂	435
Cr ₂ (g)		422			

Cs ₂ O ₉ Si ₄ (l)	Cs ₂ O · 4SiO ₂	435	Cu ₃ P(s)		449
Cs ₂ O ₉ Te ₄ (s)	Cs ₂ Te ₄ O ₉	435	Cu ₃ Se ₂ (s)		449
Cs ₂ S(s)		436	Cu ₅ FeS ₄ (s)		450
Cs ₃ O ₄ P(s)	Cs ₃ PO ₄	436	Cu ₆ Mo ₅ O ₁₈ (s)	3Cu ₂ O · 5MoO ₃	450
Cs ₃ P ₇ (s)		436	D(g)		450
Cu(s)		436	DF(g)		450
Cu(l)		436	DH(g)	HD	450
Cu(g)		437	DHO(g)	HDO	451
CuF(s)		437	DN(g)	ND	451
CuF(g)		437	DO(g)	OD	451
CuF ₂ (s)		437	DS(g)	SD	451
CuF ₂ (l)		437	D ₂ (g)		451
CuF ₂ (g)		438	D ₂ N(g)	ND ₂	451
CuFeO ₂ (s)		438	D ₂ N ₂ (g)	DNND	452
CuFeS ₂ (s)	CuS · FeS	438	D ₂ O(g)		452
CuFe ₂ O ₄ (s)	CuO · Fe ₂ O ₃	439	D ₂ S(g)		452
CuGa ₂ O ₄ (s)	CuO · Ga ₂ O ₃	439	D ₃ N(g)	ND ₃	452
CuH(g)		439	Dy(s)		452
CuH ₂ O ₂ (s)	Cu(OH) ₂	439	Dy(l)		453
CuH ₂ O ₅ S(s)	CuSO ₄ · H ₂ O	440	Dy(g)		453
CuH ₃ O ₇ S(s)	CuSO ₄ · 3H ₂ O	440	DyF ₃ (s)		453
CuH ₁₀ O ₉ S(s)	CuSO ₄ · 5H ₂ O	440	DyF ₃ (l)		454
CuI(s)		440	DyF ₃ (g)		454
CuI(l)		441	DyI ₃ (s)		454
CuI(g)		441	DyI ₃ (g)		454
CuMg ₂ (s)		441	DyS(s)		454
CuMg ₂ (l)		442	DyS(g)		454
CuMoO ₄ (s)	CuO · MoO ₃	442	DySe(s)		454
CuO(s)		442	DySe(g)		454
CuO(g)		442	DyTe(s)		455
CuO ₂ Y(s)	YCuO ₂	442	DyTe(g)		455
CuO ₃ Se(s)	CuSeO ₃	442	Dy ₂ O ₃ (s)		455
CuO ₄ S(s)	CuSO ₄	443	Dy ₂ S ₃ (s)		455
CuP ₂ (s)		443	Dy ₂ Se ₃ (s)		455
CuS(s)		443	Dy ₂ Te ₃ (s)		456
CuS(g)		443	e(g)		456
CuSe(s)		443	Er(s)		456
CuSe(g)		444	Er(l)		456
CuSe ₂ (s)		444	Er(g)		456
CuTe(s)		444	ErF ₃ (s)		457
CuTe(g)		444	ErF ₃ (l)		457
Cu _{1.31} Te(s)		444	ErF ₃ (g)		457
Cu _{1.41} Te(s)		444	ErI ₃ (g)		458
Cu ₂ (g)		444	ErS(s)		458
Cu ₂ Fe ₂ O ₄ (s)	Cu ₂ O · Fe ₂ O ₃	444	ErS(g)		458
Cu ₂ Fe ₂ O ₄ (l)	Cu ₂ O · Fe ₂ O ₃	445	ErSe(s)		458
Cu ₂ Ga ₂ O ₄ (s)	Cu ₂ O · Ga ₂ O ₃	445	ErSe(g)		458
Cu ₂ Mg(s)		445	ErTe(s)		458
Cu ₂ Mg(l)		446	ErTe(g)		458
Cu ₂ O(s)		446	Er ₂ O ₃ (s)		458
Cu ₂ O(l)		446	Er ₂ S ₃ (s)		459
Cu ₂ O ₄ S(s)	Cu ₂ SO ₄	446	Er ₂ Se ₃ (s)		459
Cu ₂ O ₆ S(s)	CuO · CuSO ₄	447	Er ₂ Te ₃ (s)		459
Cu ₂ O ₅ Y ₂ (s)	Y ₂ Cu ₂ O ₅	447	Eu(s)		459
Cu ₂ S(s)		447	Eu(l)		459
Cu ₂ S(l)		448	Eu(g)		459
Cu ₂ Sb(s)		448	EuF ₃ (s)		460
Cu ₂ Se(s)		448	EuF ₃ (l)		460
Cu ₂ Te(s)		449	EuF ₃ (g)		460
Cu ₃ I ₃ (g)	(CuI) ₃	449	EuN(s)		461
Cu ₃ Mo ₂ O ₉ (s)	3CuO · 2MoO ₃	449	EuO(s)		461
			EuS(s)		461

EuS(g)		461	FY(g)	YF	473
EuSe(s)		461	FZr(g)	ZrF	473
EuSe(g)		461	F ₂ (g)		473
EuTe(s)		461	F ₂ Fe(s)	FeF ₂	474
EuTe(g)		461	F ₂ Fe(l)	FeF ₂	474
Eu ₂ O ₃ (s)		462	F ₂ Fe(g)	FeF ₂	474
Eu ₃ S ₄ (s)		462	F ₂ Ga(g)	GaF ₂	475
F(g)		462	F ₂ Ge(g)	GeF ₂	475
FFe(g)	FeF	462	F ₂ HK(s)	KF · HF	475
FGa(g)	GaF	462	F ₂ HK(l)	KF · HF	476
FGe(g)	GeF	463	F ₂ H ₂ (g)	H ₂ F ₂	476
FH(g)	HF	463	F ₂ H ₂ Si(g)	SiH ₂ F ₂	476
FHO(g)	HO	463	F ₂ Hg(s)	HgF ₂	476
FHO ₃ S(g)	HSO ₃ F	463	F ₂ Hg(l)	HgF ₂	477
FH ₃ Si(g)	SiH ₃ F	463	F ₂ Hg(g)	HgF ₂	477
FH ₄ N(s)	NH ₄ F	464	F ₂ Hg ₂ (s)	Hg ₂ F ₂	477
FHg(g)	HgF	464	F ₂ In(g)	InF ₂	477
Fl(g)	IF	464	F ₂ K ₂ (g)	(KF) ₂	478
Fln(g)	InF	464	F ₂ Li ₂ (g)	(LiF) ₂	478
FK(s)	KF	464	F ₂ Mg(s)	MgF ₂	478
FK(l)	KF	464	F ₂ Mg(l)	MgF ₂	478
FK(g)	KF	465	F ₂ Mg(g)	MgF ₂	479
FLi(s)	LiF	465	F ₂ Mn(s)	MnF ₂	479
FLi(l)	LiF	465	F ₂ Mn(l)	MnF ₂	480
FLi(g)	LiF	465	F ₂ Mn(g)	MnF ₂	480
FLiO(g)	LiOF	466	F ₂ Mo(g)	MoF ₂	480
FMg(g)	MgF	466	F ₂ N(g)	NF ₂	480
FMo(g)	MoF	466	F ₂ N ₂ (g)	FNNF	480
FN(g)	NF	466	F ₂ Na ₂ (g)	(NaF) ₂	481
FNO(g)	ONF	466	F ₂ Ni(s)	NiF ₂	481
FNO ₂ (g)	NO ₂ F	466	F ₂ Ni(g)	NiF ₂	481
FNO ₃ (g)	FONO ₂	467	F ₂ NpO ₂ (s)	NpO ₂ F ₂	481
FNa(s)	NaF	467	F ₂ O(g)	FOF	481
FNa(l)	NaF	467	F ₂ OS(g)	OSF ₂	482
FNa(g)	NaF	467	F ₂ OSi(g)	OSiF ₂	482
FNi(g)	NiF	468	F ₂ OTh(s)	ThOF ₂	482
FO(g)	OF	468	F ₂ OTi(g)	TiOF ₂	482
FOSm(s)	SmOF	468	F ₂ OU(s)	UOF ₂	482
FOTi(g)	OTiF	469	F ₂ O ₂ (g)	FOOF	482
FO ₂ (g)	OFO	469	F ₂ O ₂ S(g)	SO ₂ F ₂	483
FO ₂ (g)	FOO	469	F ₂ O ₂ U(s)	UO ₂ F ₂	483
FP(g)	PF	469	F ₂ P(g)	PF ₂	483
FPS(g)	PSF	469	F ₂ Pb(s)	PbF ₂	483
FPb(g)	PbF	469	F ₂ Pb(l)	PbF ₂	484
FRb(s)	RbF	470	F ₂ Pb(g)	PbF ₂	484
FRb(l)	RbF	470	F ₂ Pd(s)	PdF ₂	484
FRb(g)	RbF	470	F ₂ Rb ₂ (g)	(RbF) ₂	484
FRu(g)	RuF	470	F ₂ Ru(g)	RuF ₂	485
FS(g)	SF	470	F ₂ S(g)	SF ₂	485
FSb(g)	SbF	471	F ₂ S ₂ (g)	SSF ₂	485
FSc(g)	ScF	471	F ₂ S ₂ (g)	FSSF	485
FSe(g)	SeF	471	F ₂ Sc(g)	ScF ₂	485
FSi(g)	SiF	471	F ₂ Se(g)	SeF ₂	485
FSn(g)	SnF	471	F ₂ Si(g)	SiF ₂	486
FSr(g)	SrF	471	F ₂ Sn(s)	SnF ₂	486
FTe(g)	TeF	472	F ₂ Sn(l)	SnF ₂	486
FTi(g)	TiF	472	F ₂ Sn(g)	SnF ₂	486
FTl(s)	TiF	472	F ₂ Sr(s)	SrF ₂	487
FTl(l)	TiF	472	F ₂ Sr(l)	SrF ₂	487
FTl(g)	TiF	473	F ₂ Sr(g)	SrF ₂	487
FU(g)	UF	473	F ₂ Te(g)	TeF ₂	488
FW(g)	WF	473	F ₂ Th(g)	ThF ₂	488

$F_2Ti(g)$	TiF_2	488	$F_3Tb(s)$	TbF_3	504
$F_2Ti_2(g)$	$(TiF)_2$	488	$F_3Tb(l)$	TbF_3	505
$F_2U(g)$	UF_2	488	$F_3Tb(g)$	TbF_3	505
$F_2Xe(g)$	XeF_2	488	$F_3Th(g)$	ThF_3	505
$F_2Zn(s)$	ZnF_2	489	$F_3Ti(s)$	TiF_3	505
$F_2Zn(l)$	ZnF_2	489	$F_3Ti(g)$	TiF_3	506
$F_2Zn(g)$	ZnF_2	490	$F_3Tm(s)$	TmF_3	506
$F_2Zr(s)$	ZrF_2	490	$F_3Tm(l)$	TmF_3	507
$F_2Zr(l)$	ZrF_2	490	$F_3Tm(g)$	TmF_3	507
$F_2Zr(g)$	ZrF_2	490	$F_3U(s)$	UF_3	507
$F_3Fe(s)$	FeF_3	491	$F_3U(g)$	UF_3	507
$F_3Fe(g)$	FeF_3	491	$F_3V(s)$	VF_3	507
$F_3Ga(s)$	GaF_3	491	$F_3Y(s)$	YF_3	508
$F_3Ga(g)$	GaF_3	492	$F_3Y(l)$	YF_3	508
$F_3Gd(s)$	GdF_3	492	$F_3Y(g)$	YF_3	509
$F_3Gd(l)$	GdF_3	493	$F_3Yb(s)$	YbF_3	509
$F_3Gd(g)$	GdF_3	493	$F_3Yb(l)$	YbF_3	509
$F_3Ge(g)$	GeF_3	493	$F_3Yb(g)$	YbF_3	510
$F_3HSi(g)$	$SiHF_3$	493	$F_3Zr(s)$	ZrF_3	510
$F_3H_3(g)$	H_3F_3	493	$F_3Zr(g)$	ZrF_3	510
$F_3Ho(s)$	HoF_3	494	$F_4Ge(g)$	GeF_4	510
$F_3Ho(l)$	HoF_3	494	$F_4H_4(g)$	H_4F_4	510
$F_3Ho(g)$	HoF_3	495	$F_4Hf(s)$	HfF_4	510
$F_3In(s)$	InF_3	495	$F_4Hf(g)$	HfF_4	511
$F_3In(l)$	InF_3	495	$F_4Mg_2(g)$	$(MgF_2)_2$	511
$F_3In(g)$	InF_3	495	$F_4Mo(s)$	MoF_4	511
$F_3La(s)$	LaF_3	496	$F_4Mo(g)$	MoF_4	511
$F_3La(l)$	LaF_3	496	$F_4MoO(g)$	MoF_4O	511
$F_3La(g)$	LaF_3	496	$F_4N_2(g)$	N_2F_4	511
$F_3Li_3(g)$	$(LiF)_3$	496	$F_4Np(s)$	NpF_4	512
$F_3Lu(s)$	LuF_3	497	$F_4Np(g)$	NpF_4	512
$F_3Lu(l)$	LuF_3	497	$F_4OW(s)$	WOF_4	512
$F_3Lu(g)$	LuF_3	497	$F_4OW(l)$	WOF_4	512
$F_3Mn(s)$	MnF_3	498	$F_4OW(g)$	WOF_4	512
$F_3Mo(s)$	MoF_3	498	$F_4Pb(g)$	PbF_4	512
$F_3Mo(g)$	MoF_3	498	$F_4Pu(s)$	PuF_4	513
$F_3N(g)$	NF_3	498	$F_4Pu(l)$	PuF_4	513
$F_3NO(g)$	NF_3O	498	$F_4Ru(g)$	RuF_4	513
$F_3Nd(s)$	NdF_3	498	$F_4S(g)$	SF_4	513
$F_3Nd(l)$	NdF_3	499	$F_4Se(l)$	SeF_4	513
$F_3Nd(g)$	NdF_3	499	$F_4Se(g)$	SeF_4	514
$F_3Np(s)$	NpF_3	499	$F_4Si(g)$	SiF_4	514
$F_3OP(g)$	POF_3	499	$F_4Te(s)$	TeF_4	514
$F_3P(g)$	PF_3	499	$F_4Te(g)$	TeF_4	514
$F_3PS(g)$	PSF_3	500	$F_4Th(s)$	ThF_4	515
$F_3Pr(s)$	PrF_3	500	$F_4Th(l)$	ThF_4	515
$F_3Pr(l)$	PrF_3	500	$F_4Th(g)$	ThF_4	515
$F_3Pr(g)$	PrF_3	500	$F_4Ti(s)$	TiF_4	515
$F_3Pu(s)$	PuF_3	501	$F_4Ti(g)$	TiF_4	516
$F_3Pu(l)$	PuF_3	501	$F_4U(s)$	UF_4	516
$F_3Ru(g)$	RuF_3	501	$F_4U(l)$	UF_4	516
$F_3S(g)$	SF_3	501	$F_4U(g)$	UF_4	516
$F_3Sb(s)$	SbF_3	502	$F_4V(s)$	VF_4	517
$F_3Sb(l)$	SbF_3	502	$F_4Xe(g)$	XeF_4	517
$F_3Sb(g)$	SbF_3	502	$F_4Zr(s)$	ZrF_4	517
$F_3Sc(s)$	ScF_3	502	$F_4Zr(g)$	ZrF_4	517
$F_3Sc(l)$	ScF_3	503	$F_{4.25}U(s)$	$UF_{4.25}$	517
$F_3Sc(g)$	ScF_3	503	$F_{4.5}U(s)$	$UF_{4.5}$	517
$F_3Si(g)$	SiF_3	503	$F_5H_5(g)$	H_5F_5	518
$F_3Sm(s)$	SmF_3	503	$F_5I(g)$	IF_5	518
$F_3Sm(l)$	SmF_3	504	$F_5Mo(s)$	MoF_5	518
$F_3Sm(g)$	SmF_3	504	$F_5Mo(l)$	MoF_5	518

$F_5Mo(g)$	MoF_5	518	$FeI_2(g)$		532
$F_5Nb(s)$	NbF_5	519	$FeI_3Na(g)$	$NaFeI_3$	532
$F_5Nb(l)$	NbF_5	519	$FeI_4Na_2(g)$	Na_2FeI_4	532
$F_5Nb(g)$	NbF_5	519	$FeLiO_2(s)$	$LiFeO_2$	532
$F_5P(g)$	PF_5	519	$FeMoO_4(s)$	$FeO \cdot MoO_3$	533
$F_5Ru(s)$	RuF_5	520	$FeNaO_2(s)$	$NaFeO_2$	533
$F_5Ru(l)$	RuF_5	520	$FeO(s)$		533
$F_5Ru(g)$	RuF_5	520	$FeO(l)$		533
$F_5S(g)$	SF_5	520	$FeO(g)$		533
$F_5Se(g)$	SeF_5	520	$FeO_3Si(s)$	$FeO \cdot SiO_2$	533
$F_5Ta(s)$	TaF_5	521	$FeO_3Ti(s)$	$FeO \cdot TiO_2$	534
$F_5Ta(l)$	TaF_5	521	$FeO_3Ti(l)$	$FeO \cdot TiO_2$	534
$F_5Ta(g)$	TaF_5	521	$FeO_4S(s)$	$FeSO_4$	534
$F_5Te(g)$	TeF_5	521	$FeO_4V_2(s)$	$FeO \cdot V_2O_3$	534
$F_5U(s)$	UF_5	522	$FeO_4W(s)$	$FeO \cdot WO_3$	534
$F_5U(l)$	UF_5	522	$FeO_6V_2(s)$	$FeO \cdot V_2O_5$	535
$F_5U(g)$	UF_5	522	$FeS(s)$		535
$F_5V(g)$	VF_5	522	$FeS(l)$		536
$F_6H_6(g)$	H_6F_6	523	$FeS(g)$		536
$F_6Ir(g)$	IrF_6	523	$FeS_2(s)$		536
$F_6KU(s)$	KUF_6	523	$FeSe_{0.961}(s)$		536
$F_6K_2Si(s)$	K_2SiF_6	523	$FeSe_{1.143}(s)$		536
$F_6Mo(l)$	MoF_6	523	$FeSe_{1.333}(s)$		537
$F_6Mo(g)$	MoF_6	523	$FeSe_2(s)$		537
$F_6NaU(s)$	$NaUF_6$	524	$FeSi(s)$		537
$F_6Np(s)$	NpF_6	524	$FeSi_2(s)$		537
$F_6Np(g)$	NpF_6	524	$FeSi_{2.33}(s)$		537
$F_6OSi_2(g)$	Si_2OF_6	524	$FeTe_{0.9}(s)$		537
$F_6Pt(s)$	PtF_6	524	$FeTe_2(s)$		537
$F_6Pt(g)$	PtF_6	524	$FeTi(s)$		538
$F_6Pu(s)$	PuF_6	525	$Fe_2I_4(g)$	$(FeI_2)_2$	538
$F_6Pu(l)$	PuF_6	525	$Fe_2K_2O_4(s)$	$K_2O \cdot Fe_2O_3$	538
$F_6Pu(g)$	PuF_6	525	$Fe_2Li_2O_4(s)$	$Li_2O \cdot Fe_2O_3$	538
$F_6RbU(s)$	$RbUF_6$	525	$Fe_2MgO_4(s)$	$MgO \cdot Fe_2O_3$	538
$F_6Re(l)$	ReF_6	525	$Fe_2MnO_4(s)$	$MnO \cdot Fe_2O_3$	538
$F_6Re(g)$	ReF_6	526	$Fe_2Na_2O_4(s)$	$Na_2O \cdot Fe_2O_3$	539
$F_6S(l)$	SF_6	526	$Fe_2Na_2O_4(l)$	$Na_2O \cdot Fe_2O_3$	539
$F_6S(g)$	SF_6	526	$Fe_2Nb(s)$	$NbFe_2$	539
$F_6Se(g)$	SeF_6	526	$Fe_2NiO_4(s)$	$NiO \cdot Fe_2O_3$	539
$F_6Te(g)$	TeF_6	526	$Fe_2O_3(s)$		539
$F_6U(s)$	UF_6	527	$Fe_2O_4Si(s)$	$2FeO \cdot SiO_2$	540
$F_6U(l)$	UF_6	527	$Fe_2O_4Ti(s)$	$2FeO \cdot TiO_2$	540
$F_6W(l)$	WF_6	527	$Fe_2O_4Zn(s)$	$ZnO \cdot Fe_2O_3$	540
$F_6W(g)$	WF_6	527	$Fe_2O_{12}S_3(s)$	$Fe_2(SO_4)_3$	540
$F_7H_7(g)$	H_7F_7	527	$Fe_2P(s)$		540
$F_7I(g)$	IF_7	527	$Fe_2Ta(s)$		540
$F_{10}Mo_2(g)$	$(MoF_5)_2$	528	$Fe_2U(s)$		541
$F_{10}S_2(g)$	S_2F_{10}	528	$Fe_3Mo_2(s)$		541
$F_{10}Te_2(l)$	Te_2O_{10}	528	$Fe_3O_4(s)$		541
$F_{10}Te_2(g)$	Te_2O_{10}	528	$Fe_3P(s)$		541
$F_{15}Mo_3(g)$	$(MoF_5)_3$	528	$Fe_4N(s)$		541
$Fe_{0.877}S(s)$	$Fe_{0.877}S$	529	$Ga(s)$		541
$Fe_{0.947}O(s)$	$Fe_{0.947}O$	529	$Ga(l)$		542
$Fe(s)$		529	$Ga(g)$		542
$Fe(l)$		530	$GaH(g)$		542
$Fe(g)$		530	$GaH_3O_3(s)$	$Ga(OH)_3$	542
$FeHO_2(s)$	$FeO(OH)$	530	$GaI(g)$		542
$FeH_2O_2(s)$	$Fe(OH)_2$	530	$GaI_3(s)$		542
$FeH_2O_2(g)$	$Fe(OH)_2$	531	$GaI_3(l)$		543
$FeH_3O_3(s)$	$Fe(OH)_3$	531	$GaI_3(g)$		543
$FeI_2(s)$		531	$GaN(s)$		543
$FeI_2(l)$		532			

GaO(g)		543	GeS(l)		555
GaP(s)		543	GeS(g)		555
GaS(s)		543	GeS ₂ (s)		555
GaSb(s)		544	GeSe(s)		555
GaSe(s)		544	GeSe(l)		555
GaTe(s)		544	GeSe(g)		556
GaTe(g)		544	GeSe ₂ (s)		556
GaTe ₂ (g)		544	GeTe(s)		556
Ga ₂ l ₆ (g)	(GaI ₃) ₂	544	GeTe(l)		556
Ga ₂ MnS ₄ (s)	MnGa ₂ S ₄	545	GeTe(g)		556
Ga ₂ Mn ₃ S ₆ (s)	Mn ₃ Ga ₂ S ₆	545	GeTe ₂ (g)		556
Ga ₂ O(g)		545	GeU(s)		557
Ga ₂ O ₃ (s)		545	Ge ₂ U(s)		557
Ga ₂ O ₁₂ Se ₃ (s)	Ga ₂ (SeO ₄) ₃	545	Ge ₃ N ₄ (s)		557
Ga ₂ PbS ₄ (s)	PbGa ₂ S ₄	545	Ge ₃ Ti ₅ (s)	Ti ₅ Ge ₃	557
Ga ₂ Pb ₂ S ₅ (s)	Pb ₂ Ga ₂ S ₅	546	Ge ₃ U(s)		557
Ga ₂ S(s)		546	Ge ₃ U ₅ (s)		557
Ga ₂ S(g)		546	Ge ₅ Ti ₆ (s)	Ti ₆ Ge ₅	557
Ga ₂ S ₃ (s)		546	Ge ₅ U ₃ (s)		558
Ga ₂ S ₄ Zn(s)	ZnGa ₂ S ₄	546	H(g)		558
Ga ₂ Se(s)		546	HHg(g)	HgH	558
Ga ₂ Se(g)		546	HI(g)		558
Ga ₂ Se ₃ (s)		547	HI ₃ Si(g)	SiHI ₃	558
Ga ₂ Te(g)		547	HIn(g)	InH	558
Ga ₂ Te ₃ (s)		547	HK(s)	KH	559
Ga ₄ S ₅ (s)		547	HK(g)	KH	559
Ga ₆ Pb ₂ S ₁₁ (s)	Pb ₂ Ga ₆ S ₁₁	547	HKO(s)	KOH	559
Ga ₆ Pb ₄ S ₁₃ (s)	Pb ₄ Ga ₆ S ₁₃	547	HKO(l)	KOH	560
Ga ₆ S ₁₃ Zn(s)	ZnGa ₆ S ₁₃	548	HKO(g)	KOH	560
Gd(s)		548	HKO ₄ S(s)	KHSO ₄	560
Gd(l)		549	HK ₂ O ₄ P(s)	K ₂ HPO ₄	560
Gd(g)		549	HLaO ₂ (s)	LaOOH	560
GdI ₃ (s)		549	HLi(s)	LiH	561
GdI ₃ (l)		550	HLi(l)	LiH	561
GdI ₃ (g)		550	HLi(g)	LiH	561
GdS(s)		550	HLiO(s)	LiOH	561
GdS(g)		550	HLiO(l)	LiOH	562
GdSe(s)		550	HLiO(g)	LiOH	562
GdSe(g)		550	HMg(g)	MgH	562
GdTe(s)		550	HMgO(g)	MgOH	562
GdTe(g)		551	HN(g)	NH	563
Gd ₂ O ₃ (s)		551	HNO(g)		563
Gd ₂ S ₃ (s)		551	HNO ₂ (g)	HONO	563
Gd ₂ Se ₃ (s)		551	HNO ₃ (l)		563
Gd ₂ Te ₃ (s)		551	HNO ₃ (g)		563
Ge(s)		551	HNa(s)	NaH	564
Ge(l)		552	HNa(g)	NaH	564
Ge(g)		552	HNaO(s)	NaOH	564
GeH ₄ (g)		552	HNaO(l)	NaOH	565
GeI ₂ (s)		552	HNaO(g)	NaOH	565
GeI ₂ (g)		552	HNaO ₄ S(s)	NaHSO ₄	565
GeI ₄ (s)		553	HNa ₂ O ₄ P(s)	Na ₂ HPO ₄	565
GeI ₄ (l)		553	HNI(g)	NIH	565
GeI ₄ (g)		553	HO(g)	OH	566
GeMg ₂ (s)	Mg ₂ Ge	553	HORb(s)	RbOH	566
GeNi ₂ (s)		553	HORb(l)	RbOH	566
GeO(s)		554	HOSr(g)	SrOH	566
GeO(g)		554	HOTl(s)	TlOH	567
GeO ₂ (s)		554	HO ₂ (g)	HOO	567
GeO ₂ (l)		554	HO ₂ Si(g)	SiOOH	567
GeP(s)		554	HP(g)	PH	567
GeS(s)		555	HPb(g)	PbH	567

HRb(s)	RbH	567	H ₃ Sb(g)	SbH ₃	578
HS(g)		567	H ₃ U(s)	UH ₃	579
HSe(g)	SeH	568	H ₃ Y(s)	YH ₃	579
HSi(g)	SiH	568	H ₄ IN(s)	NH ₄ I	579
HZr(g)	ZrH	568	H ₄ IP(s)	PH ₄ I	579
H ₂ (g)		568	H ₄ NO ₃ V(s)	NH ₄ VO ₃	579
H ₂ l ₂ Si(g)	SiH ₂ l ₂	568	H ₄ NO ₄ Re(s)	NH ₄ ReO ₄	579
H ₂ KO ₄ P(s)	KH ₂ PO ₄	568	H ₄ N ₂ (l)	N ₂ H ₄	580
H ₂ K ₂ O ₂ (g)	(KOH) ₂	569	H ₄ N ₂ (g)	N ₂ H ₄	580
H ₂ La(s)	LaH ₂	569	H ₄ N ₂ O ₃ (s)	NH ₄ NO ₃	580
H ₂ Li ₂ O ₂ (g)	(LiOH) ₂	569	H ₄ N ₂ O ₃ (l)	NH ₄ NO ₃	581
H ₂ Mg(s)	MgH ₂	569	H ₄ O ₅ S(l)	H ₂ SO ₄ · H ₂ O	581
H ₂ MgO ₂ (s)	Mg(OH) ₂	569	H ₄ O ₆ SZn(s)	ZnSO ₄ · 2H ₂ O	582
H ₂ MgO ₂ (g)	Mg(OH) ₂	570	H ₄ Si(g)	SiH ₄	582
H ₂ Mg ₃ O ₁₂ Si ₄ (s)	Mg ₃ Si ₄ O ₁₀ (OH) ₂	570	H ₄ Sn(g)	SnH ₄	582
H ₂ MoO ₄ (g)		570	H ₆ O ₆ S(l)	H ₂ SO ₄ · 2H ₂ O	582
H ₂ N(g)	NH ₂	570	H ₆ Si ₂ (g)	Si ₂ H ₆	582
H ₂ N ₂ (g)	HNNH	570	H ₈ l ₅ LaN ₂ (s)	(NH ₄) ₂ LaI ₅	583
H ₂ NaO ₄ P(s)	NaH ₂ PO ₄	570	H ₈ l ₅ N ₂ Nd(s)	(NH ₄) ₂ NdI ₅	583
H ₂ Na ₂ O ₂ (g)	(NaOH) ₂	571	H ₈ N ₂ O ₄ S(s)	(NH ₄) ₂ SO ₄	583
H ₂ Nd(s)	NdH ₂	571	H ₈ O ₇ S(l)	H ₂ SO ₄ · 3H ₂ O	583
H ₂ NiO ₂ (g)	Ni(OH) ₂	571	H ₁₀ O ₈ S(l)	H ₂ SO ₄ · 4H ₂ O	583
H ₂ O(l)		571	H ₁₂ l ₆ N ₃ Nd(s)	(NH ₄) ₃ NdI ₆	583
H ₂ O(g)		571	H ₁₂ l ₆ N ₃ Y(s)	(NH ₄) ₃ YI ₆	583
H ₂ O ₂ (l)		572	H ₁₂ O ₁₀ SZn(s)	ZnSO ₄ · 6H ₂ O	584
H ₂ O ₂ (g)		572	H ₁₄ O ₁₁ SZn(s)	ZnSO ₄ · 7H ₂ O	584
H ₂ O ₂ Pb(s)	Pb(OH) ₂	572	H ₁₅ Th ₄ (s)	Th ₄ H ₁₅	584
H ₂ O ₂ Sr(s)	Sr(OH) ₂	572	He(g)		584
H ₂ O ₂ Sr(l)	Sr(OH) ₂	572	Hf(s)		584
H ₂ O ₂ Sr(g)	Sr(OH) ₂	573	Hf(l)		585
H ₂ O ₃ Si(g)	SiO(OH) ₂	573	Hf(g)		585
H ₂ O ₄ S(l)	H ₂ SO ₄	573	HfI ₂ (s)		585
H ₂ O ₄ S(g)	H ₂ SO ₄	573	HfI ₄ (s)		586
H ₂ O ₄ W(s)	H ₂ WO ₄	573	HfI ₄ (g)		586
H ₂ O ₄ W(g)	H ₂ WO ₄	574	HfI ₂ O ₃ (s)	Li ₂ O · HfO ₂	586
H ₂ O ₅ SZn(s)	ZnSO ₄ · H ₂ O	574	HfIn(s)		586
H ₂ P(g)	PH ₂	574	HfO ₂ (s)		586
H ₂ Pr(s)	PrH ₂	574	HfO ₃ Sr(s)	SrO · HfO ₂	587
H ₂ S(g)		574	HfS ₂ (s)		587
H ₂ S ₂ (l)		574	HfS ₃ (s)		587
H ₂ S ₂ (g)		575	Hg(l)		587
H ₂ S ₃ (l)	S ₃ H ₂	575	Hg(g)		587
H ₂ S ₃ (g)	S ₃ H ₂	575	HgI(g)		587
H ₂ S ₄ (l)	S ₄ H ₂	575	HgI ₂ (s)		588
H ₂ S ₄ (g)	S ₄ H ₂	575	HgI ₂ (l)		588
H ₂ S ₅ (l)	S ₅ H ₂	575	HgI ₂ (g)		589
H ₂ S ₅ (g)	S ₅ H ₂	575	HgMg(s)	MgHg	589
H ₂ S ₆ (l)	S ₆ H ₂	576	HgMg ₂ (s)	Mg ₂ Hg	589
H ₂ Se(g)		576	HgMg ₃ (s)	Mg ₃ Hg	589
H ₂ Sr(s)	SrH ₂	576	HgO(s)		589
H ₂ Te(g)		576	HgO(g)		589
H ₂ Th(s)	ThH ₂	576	HgO ₃ Se(s)	HgSeO ₃	589
H ₂ Ti(s)	TiH ₂	576	HgO ₄ S(s)	HgSO ₄	590
H ₂ Y(s)	YH ₂	577	HgS(s)		590
H ₂ Zr(s)	ZrH ₂	577	HgS(g)		590
H ₃ Si(g)	SiH ₃ l	577	HgSe(s)		590
H ₃ LaO ₃ (s)	La(OH) ₃	577	HgSe(g)		590
H ₃ N(g)	NH ₃	577	HgTe(s)		591
H ₃ O ₃ Sc(s)	Sc(OH) ₃	577	HgTe(g)		591
H ₃ O ₄ P(s)	H ₃ PO ₄	578	Hg ₂ l ₂ (s)		591
H ₃ O ₄ P(l)	H ₃ PO ₄	578	Hg ₂ l ₂ (l)		591
H ₃ P(g)	PH ₃	578	Hg ₂ Mg(s)	MgHg ₂	591

Hg ₂ Mg ₅ (s)	Mg ₅ Hg ₂	592	I ₂ Mg(l)	Mgl ₂	604
Hg ₂ O ₄ S(s)	Hg ₂ SO ₄	592	I ₂ Mg(g)	Mgl ₂	604
Hg ₃ Mg ₅ (s)	Mg ₅ Hg ₃	592	I ₂ Mn(s)	Mnl ₂	605
Ho(s)		592	I ₂ Mn(g)	Mnl ₂	605
Ho(l)		593	I ₂ Mo(s)	Mol ₂	605
Ho(g)		593	I ₂ Mo(g)	Mol ₂	605
Ho ₃ (s)		593	I ₂ Ni(s)	Nil ₂	605
Ho ₃ (g)		593	I ₂ Ni(g)	Nil ₂	605
HoS(s)		593	I ₂ O(g)	IOI	606
HoS(g)		593	I ₂ O(g)	IIO	606
HoSe(s)		594	I ₂ OTh(s)	ThOI ₂	606
HoSe(g)		594	I ₂ O ₂ W(s)	WO ₂ l ₂	606
HoTe(s)		594	I ₂ O ₂ W(g)	WO ₂ l ₂	606
HoTe(g)		594	I ₂ Pb(s)	Pbl ₂	606
Ho ₂ O ₃ (s)		594	I ₂ Pb(l)	Pbl ₂	607
Ho ₂ S ₃ (s)		594	I ₂ Pb(g)	Pbl ₂	607
Ho ₂ Se ₃ (s)		594	I ₂ Pd(s)	Pdl ₂	607
Ho ₂ Te ₃ (s)		594	I ₂ Pt(s)	Ptl ₂	607
I(g)		595	I ₂ Si(g)	Sil ₂	607
IIn(s)	Inl	595	I ₂ Sn(s)	Snl ₂	608
IIn(l)	Inl	595	I ₂ Sn(l)	Snl ₂	608
IIn(g)	Inl	595	I ₂ Sn(g)	Snl ₂	608
IK(s)	KI	595	I ₂ Sr(s)	Srl ₂	608
IK(l)	KI	596	I ₂ Sr(l)	Srl ₂	609
IK(g)	KI	596	I ₂ Sr(g)	Srl ₂	609
IKO ₃ (s)	KIO ₃	596	I ₂ Te(g)	Tel ₂	609
IKO ₄ (s)	KIO ₄	596	I ₂ Ti(s)	Til ₂	609
ILi(s)	Lil	596	I ₂ Ti(g)	Til ₂	609
ILi(l)	Lil	597	I ₂ Ti ₂ (g)	Tl ₂ l ₂	610
ILi(g)	Lil	597	I ₂ V(s)	VI ₂	610
IMg(g)	Mgl	597	I ₂ V(g)	VI ₂	610
IMo(g)	Mol	597	I ₂ Zn(s)	Znl ₂	610
INO(g)	NOI	598	I ₂ Zn(l)	Znl ₂	611
INa(s)	Nal	598	I ₂ Zn(g)	Znl ₂	611
INa(l)	Nal	598	I ₂ Zr(s)	Zrl ₂	611
INa(g)	Nal	598	I ₂ Zr(l)	Zrl ₂	611
INaO ₄ (s)	NalO ₄	599	I ₂ Zr(g)	Zrl ₂	612
INi(g)	Nil	599	I ₃ Er(s)	Erl ₃	612
IO(g)		599	I ₃ Eu(s)	Eul ₃	612
IO ₂ (g)	OIO	599	I ₃ In(s)	Inl ₃	612
IO ₂ (g)	IOO	599	I ₃ In(l)	Inl ₃	612
IO ₃ (g)		599	I ₃ In(g)	Inl ₃	613
IO ₃ Re(g)	ReO ₃ l	599	I ₃ La(s)	Lal ₃	613
IPb(g)	Pbl	600	I ₃ La(l)	Lal ₃	613
IRb(s)	Rbl	600	I ₃ La(g)	Lal ₃	613
IRb(l)	Rbl	600	I ₃ LaO ₉ (s)	La(IO ₃) ₃	613
IRb(g)	Rbl	600	I ₃ Lu(s)	Lul ₃	614
ISi(g)	Sil	600	I ₃ Mo(s)	Mol ₃	614
ISr(g)	Srl	601	I ₃ Mo(g)	Mol ₃	614
ITi(g)	Til	601	I ₃ NaPb(g)	NaPbl ₃	614
ITl(s)	TIl	601	I ₃ Nd(s)	Ndl ₃	614
ITl(l)	TIl	602	I ₃ Nd(l)	Ndl ₃	615
ITl(g)	TIl	602	I ₃ Nd(g)	Ndl ₃	615
IZr(g)	Zrl	602	I ₃ P(g)	Pl ₃	615
I ₂ (s)		602	I ₃ Pm(s)	Pml ₃	615
I ₂ (l)		602	I ₃ Pr(s)	Prl ₃	616
I ₂ (g)		603	I ₃ Pr(l)	Prl ₃	616
I ₂ In(g)	Inl ₂	603	I ₃ Pr(g)	Prl ₃	616
I ₂ Ir(s)	Irl ₂	603	I ₃ Re(g)	Rel ₃	616
I ₂ K ₂ (g)	(KI) ₂	603	I ₃ Sb(s)	Sbl ₃	617
I ₂ Li ₂ (g)	(Lil) ₂	603	I ₃ Sb(l)	Sbl ₃	617
I ₂ Mg(s)	Mgl ₂	604	I ₃ Sb(g)	Sbl ₃	617

$I_3Sc(s)$	ScI_3	617	$InSb(s)$		631
$I_3Sc(g)$	ScI_3	617	$InSb(l)$		632
$I_3Si(g)$	SiI_3	618	$InSe(s)$		632
$I_3Sm(s)$	SmI_3	618	$InSe(g)$		632
$I_3Tb(s)$	TbI_3	618	$InTe(s)$		632
$I_3Tb(l)$	TbI_3	619	$InTe(l)$		632
$I_3Tb(g)$	TbI_3	619	$InTe(g)$		632
$I_3Ti(s)$	TiI_3	619	$InTe_2(g)$		633
$I_3Ti(g)$	TiI_3	619	$In_2MnS_4(s)$	$MnIn_2S_4$	633
$I_3Tm(s)$	TmI_3	619	$In_2O(g)$		633
$I_3Tm(g)$	TmI_3	619	$In_2O_3(s)$		633
$I_3U(s)$	UI_3	620	$In_2O_{12}S_3(s)$	$In_2(SO_4)_3$	633
$I_3V(s)$	VI_3	620	$In_2PbS_4(s)$	$PbIn_2S_4$	633
$I_3Y(s)$	YI_3	620	$In_2S(g)$		633
$I_3Y(l)$	YI_3	620	$In_2S_2(g)$		634
$I_3Y(g)$	YI_3	621	$In_2S_3(s)$		634
$I_3Zr(s)$	ZrI_3	621	$In_2S_4Zn(s)$	$ZnIn_2S_4$	634
$I_3Zr(g)$	ZrI_3	621	$In_2Se(s)$		635
$I_4Mn_2(g)$	Mn_2I_4	621	$In_2Se(g)$		635
$I_4Mo(s)$	MoI_4	621	$In_2Se_2(g)$		635
$I_4Mo(g)$	MoI_4	621	$In_2Se_3(s)$		635
$I_4Ni_2(g)$	Ni_2I_4	622	$In_2Te(s)$		635
$I_4Pb(g)$	PbI_4	622	$In_2Te(g)$		636
$I_4Pb_2(g)$	Pb_2I_4	622	$In_2Te_2(g)$		636
$I_4Pt(s)$	PI_4	622	$In_2Te_3(s)$		636
$I_4Si(s)$	SiI_4	622	$In_2Te_3(l)$		636
$I_4Si(l)$	SiI_4	623	$In_2Te_5(s)$		637
$I_4Si(g)$	SiI_4	623	$In_3S_4(s)$		637
$I_4Sn(s)$	SnI_4	623	$In_4S_5(s)$		637
$I_4Sn(l)$	SnI_4	624	$In_4Te_3(s)$		637
$I_4Sn(g)$	SnI_4	624	$In_5S_6(s)$		637
$I_4Sn_2(g)$	Sn_2I_4	624	$In_9Te_7(s)$		637
$I_4Te(s)$	TeI_4	624	$Ir(s)$		637
$I_4Te(g)$	TeI_4	624	$Ir(l)$		638
$I_4Th(s)$	ThI_4	624	$Ir(g)$		638
$I_4Th(l)$	ThI_4	625	$IrO_2(s)$		638
$I_4Th(g)$	ThI_4	625	$IrO_2(g)$		638
$I_4Ti(s)$	TiI_4	625	$IrO_3(g)$		638
$I_4Ti(l)$	TiI_4	626	$IrS_2(s)$		638
$I_4Ti(g)$	TiI_4	626	$IrS_{2.667}(s)$		639
$I_4U(s)$	UI_4	627	$IrSe_{1.5}(s)$		639
$I_4U(l)$	UI_4	627	$IrSe_2(s)$		639
$I_4U(g)$	UI_4	627	$IrSe_3(s)$		639
$I_4Zn_2(g)$	Zn_2I_4	627	$IrTe_2(s)$		639
$I_4Zr(s)$	ZrI_4	628	$IrTe_{2.87}(s)$		639
$I_4Zr(g)$	ZrI_4	628	$Ir_2S_3(s)$		639
$I_5Nb(s)$	NbI_5	628	$K(s)$		639
$I_5Nb(l)$	NbI_5	628	$K(l)$		640
$I_5Re(g)$	ReI_5	628	$K(g)$		640
$I_5Ta(s)$	TaI_5	629	$KMnO_4(s)$		640
$I_5Ta(l)$	TaI_5	629	$KNO_2(s)$		640
$I_5Ta(g)$	TaI_5	629	$KNO_3(s)$		640
$I_6Sc_2(g)$	Sc_2I_6	629	$KNO_3(l)$		641
$In(s)$		629	$KO(g)$		641
$In(l)$		630	$KO_2(s)$		641
$In(g)$		630	$K_2(g)$		642
$InN(s)$		630	$K_2MoO_4(s)$		642
$InP(s)$		630	$K_2Mo_2O_7(s)$		642
$InP(l)$		631	$K_2Mo_3O_{10}(s)$		642
$InS(s)$		631	$K_2Mo_4O_{13}(s)$		642
$InS(g)$		631	$K_2Mo_8O_{25}(s)$		642
$InS_{1.2}(s)$		631	$K_2NpO_4(s)$	$K_2O \cdot NpO_3$	642

K ₂ O(s)		643	Li ₂ MoO ₄ (s)		656
K ₂ O ₂ (s)		643	Li ₂ Nb ₂ O ₆ (s)	Li ₂ O · Nb ₂ O ₅	656
K ₂ O ₃ S(s)	K ₂ SO ₃	643	Li ₂ NpO ₄ (s)	Li ₂ O · NpO ₃	657
K ₂ O ₃ Se(s)	K ₂ SeO ₃	643	Li ₂ O(s)		657
K ₂ O ₃ Si(s)	K ₂ O · SiO ₂	643	Li ₂ O(l)		657
K ₂ O ₃ Si(l)	K ₂ O · SiO ₂	644	Li ₂ O(g)		657
K ₂ O ₄ S(s)	K ₂ SO ₄	644	Li ₂ O ₂ (s)		657
K ₂ O ₄ S(l)	K ₂ SO ₄	645	Li ₂ O ₂ (g)		658
K ₂ O ₄ S(g)	K ₂ SO ₄	645	Li ₂ O ₃ Si(s)	Li ₂ O · SiO ₂	658
K ₂ O ₄ Se(s)	K ₂ SeO ₄	645	Li ₂ O ₃ Si(l)	Li ₂ O · SiO ₂	658
K ₂ O ₄ W(s)	K ₂ O · WO ₃	645	Li ₂ O ₃ Ti(s)	Li ₂ O · TiO ₂	658
K ₂ O ₄ W(l)	K ₂ O · WO ₃	646	Li ₂ O ₃ Ti(l)	Li ₂ O · TiO ₂	659
K ₂ O ₅ Si ₂ (s)	K ₂ O · 2SiO ₂	646	Li ₂ O ₃ Zr(s)	Li ₂ O · ZrO ₂	659
K ₂ O ₅ Si ₂ (l)	K ₂ O · 2SiO ₂	647	Li ₂ O ₄ S(s)	Li ₂ SO ₄	660
K ₂ O ₇ S ₂ (s)	K ₂ S ₂ O ₇	647	Li ₂ O ₄ S(l)	Li ₂ SO ₄	660
K ₂ O ₈ S ₂ (s)	K ₂ S ₂ O ₈	647	Li ₂ O ₄ S(g)	Li ₂ SO ₄	661
K ₂ O ₉ Si ₄ (s)	K ₂ O · 4SiO ₂	648	Li ₂ O ₄ U(s)	Li ₂ UO ₄	661
K ₂ O ₉ Si ₄ (l)	K ₂ O · 4SiO ₂	648	Li ₂ O ₄ W(s)	Li ₂ O · WO ₃	661
K ₂ S(s)		648	Li ₂ O ₄ W(l)	Li ₂ O · WO ₃	662
K ₂ S(l)		649	Li ₂ O ₅ Si ₂ (s)	Li ₂ O · 2SiO ₂	662
K ₂ Se(s)		649	Li ₂ O ₅ Si ₂ (l)	Li ₂ O · 2SiO ₂	663
K ₂ Te(s)		649	Li ₂ O ₈ Ta ₂ (s)	Li ₂ O · Ta ₂ O ₅	663
K ₃ O ₄ P(s)	K ₃ PO ₄	649	Li ₂ O ₁₀ U ₃ (s)	Li ₂ O · 3UO ₃	663
K ₃ P ₇ (s)		649	Li ₂ S(s)		663
Kr(g)		649	Li ₂ Se(s)		663
La(s)		650	Li ₂ Te(s)		664
La(l)		651	Li ₃ N(s)		664
La(g)		651	Li ₄ O ₄ Si(s)	2Li ₂ O · SiO ₂	664
LaMg(s)		651	Li ₄ O ₅ U(s)	Li ₄ UO ₅	664
LaN(s)		651	Lu(s)		664
LaO(g)		651	Lu(l)		665
LaO ₄ P(s)	LaPO ₄	651	Lu(g)		665
LaPd ₃ S ₄ (s)		651	LuS(s)		665
LaRh(g)		652	LuS(g)		665
LaS(s)		652	LuSe(s)		665
LaS(g)		652	LuSe(g)		665
LaS ₂ (s)		652	LuTe(s)		665
LaSe(s)		652	LuTe(g)		665
LaSe(g)		652	Lu ₂ O ₃ (s)		666
LaTe(s)		652	Lu ₂ S ₃ (s)		666
LaTe(g)		653	Lu ₂ Se ₃ (s)		666
La ₂ (g)		653	Lu ₂ Te ₃ (s)		666
La ₂ O ₃ (s)		653	Mg(s)		666
La ₂ O ₇ Si ₂ (s)	La ₂ Si ₂ O ₇	653	Mg(l)		666
La ₂ O ₇ Zr ₂ (s)	La ₂ Zr ₂ O ₇	653	Mg(g)		667
La ₂ O ₉ Se ₃ (s)	La ₂ (SeO ₃) ₃	653	MgMoO ₄ (s)	MgO · MoO ₃	667
La ₂ O ₁₂ Mo ₃ (s)	La ₂ O ₃ · 3MoO ₃	653	MgN(g)		667
La ₂ O ₁₂ S ₃ (s)	La ₂ (SO ₄) ₃	654	MgN ₂ O ₆ (s)	Mg(NO ₃) ₂	667
La ₂ S ₃ (s)		654	MgNi ₂ (s)		667
La ₂ Se ₃ (s)		654	MgO(s)		668
La ₂ Te ₃ (s)		654	MgO(l)		668
La ₃ Se ₄ (s)		654	MgO(g)		668
Li(s)		654	MgO ₃ Se(s)	MgSeO ₃	668
Li(l)		655	MgO ₃ Si(s)	MgO · SiO ₂	668
Li(g)		655	MgO ₃ Si(l)	MgO · SiO ₂	669
LiN(g)		655	MgO ₃ Ti(s)	MgO · TiO ₂	670
LiNO(g)	LiON	655	MgO ₃ Ti(l)	MgO · TiO ₂	670
LiNO ₃ (s)		655	MgO ₄ S(s)	MgSO ₄	670
LiNO ₃ (l)		656	MgO ₄ S(l)	MgSO ₄	670
LiNaO(s)	NaLiO	656	MgO ₄ U(s)	MgO · UO ₃	671
LiO(g)		656	MgO ₄ W(s)	MgO · WO ₃	671
Li ₂ (g)		656			

MgO ₅ Ti ₂ (s)	MgO · 2TiO ₂	671	Mo(s)		685
MgO ₅ Ti ₂ (l)	MgO · 2TiO ₂	671	Mo(l)		685
MgO ₆ V ₂ (s)	MgO · V ₂ O ₅	672	Mo(g)		685
MgS(s)		672	MoNa ₂ O ₄ (s)	Na ₂ O · MoO ₃	686
MgS(g)		672	MoNa ₂ O ₄ (l)	Na ₂ O · MoO ₃	687
MgSe(s)		672	MoO(g)		687
MgTe(s)		672	MoO ₂ (s)		687
Mg ₂ (g)		672	MoO ₂ (g)		687
Mg ₂ O ₄ Si(s)	2MgO · SiO ₂	672	MoO _{2,750} (s)		687
Mg ₂ O ₄ Si(l)	2MgO · SiO ₂	673	MoO _{2,875} (s)		688
Mg ₂ O ₄ Ti(s)	2MgO · TiO ₂	673	MoO _{2,889} (s)		688
Mg ₂ O ₄ Ti(l)	2MgO · TiO ₂	673	MoO ₃ (s)		688
Mg ₂ O ₇ V ₂ (s)	2MgO · V ₂ O ₅	673	MoO ₃ (l)		688
Mg ₂ Pb(s)		674	MoO ₃ (g)		689
Mg ₂ Pb(l)		674	MoO ₃ Sr(s)	SrO · MoO ₂	689
Mg ₂ Si(s)		674	MoO ₄ Pb(s)	PbO · MoO ₃	689
Mg ₂ Si(l)		674	MoO ₄ Sr(s)	SrO · MoO ₃	689
Mg ₂ Th(s)		675	MoO ₄ Zn(s)	ZnO · MoO ₃	689
Mg ₃ N ₂ (s)		675	MoS ₂ (s)		689
Mg ₃ O ₈ P ₂ (s)	3MgO · P ₂ O ₅	676	MoS ₃ (s)		690
Mg ₃ O ₈ P ₂ (l)	3MgO · P ₂ O ₅	676	MoSe ₂ (s)		690
Mg ₃ Sb ₂ (s)		676	MoSi ₂ (s)		690
Mn(s)		676	MoTe ₂ (s)		690
Mn(l)		678	Mo ₂ N(s)		690
Mn(g)		678	Mo ₂ Na ₂ O ₇ (s)	Na ₂ O · 2MoO ₃	690
MnMoO ₄ (s)	MnO · MoO ₃	678	Mo ₂ O ₆ (g)	(MoO ₃) ₂	691
MnO(s)		678	Mo ₂ O ₉ Zn ₃ (s)	3ZnO · 2MoO ₃	691
MnO ₂ (s)		679	Mo ₂ S ₃ (s)		691
MnO ₃ Si(s)	MnO · SiO ₂	679	Mo ₂ S ₃ (l)		691
MnO ₃ Ti(s)	MnO · TiO ₂	679	Mo ₃ O ₈ Zn ₂ (s)	2ZnO · 3MoO ₃	691
MnO ₄ S(s)	MnSO ₄	679	Mo ₃ O ₉ (g)	(MoO ₃) ₃	692
MnO ₄ W(s)	MnO · WO ₃	679	Mo ₃ Se ₄ (s)		692
MnP(s)		680	Mo ₃ Si(s)		692
MnP ₃ (s)		680	Mo ₃ Te ₄ (s)		692
MnS(s)		680	Mo ₄ O ₁₂ (g)	(MoO ₃) ₄	692
MnS(l)		680	Mo ₅ O ₁₅ (g)	(MoO ₃) ₅	693
MnS(g)		680	Mo ₅ Si ₃ (s)		693
MnS ₂ (s)		680	N _{0,465} V(s)	VN _{0,465}	693
MnSb(s)		681	N(g)		693
MnSe(s)		681	NNaO ₂ (s)	NaNO ₂	693
MnSe(g)		681	NNaO ₂ (l)	NaNO ₂	694
MnSe ₂ (s)		681	NNaO ₃ (s)	NaNO ₃	694
MnSi(s)		681	NNaO ₃ (l)	NaNO ₃	694
MnSi(l)		681	NNb(s)	NbN	694
MnSi _{1,727} (s)		682	NNb ₂ (s)	Nb ₂ N	694
MnSn ₂ (s)		682	NO(g)		695
MnTe(s)		682	NO ₂ (g)		695
MnTe ₂ (s)		682	NO ₃ (g)		695
Mn ₂ Mo ₃ O ₈ (s)	2MnO · 3MoO ₂	682	NO ₃ Tl(s)	TlNO ₃	695
Mn ₂ O ₃ (s)		682	NP(g)	PN	695
Mn ₂ O ₄ Si(s)	2MnO · SiO ₂	683	NPu(s)	PuN	695
Mn ₂ O ₄ Si(l)	2MnO · SiO ₂	683	NS(g)	SN	696
Mn ₂ O ₄ Ti(s)	2MnO · TiO ₂	683	NSc(s)	ScN	696
Mn ₂ P(s)		683	NSe(g)	SeN	696
Mn ₂ Sb(s)		683	NSi(g)	SiN	696
Mn ₃ O ₄ (s)		684	NSi ₂ (g)	Si ₂ N	696
Mn ₃ Si(s)		684	NTa(s)	TaN	696
Mn ₄ N(s)		684	NTa ₂ (s)	Ta ₂ N	697
Mn ₅ N ₂ (s)		684	NTh(s)	ThN	697
Mn ₅ Si ₃ (s)		685	NTi(s)	TiN	697
Mn ₅ Si ₃ (l)		685	NTi(l)	TiN	697
			NU(s)	UN	697

NV(s)	VN	697	Na ₂ O ₆ V ₂ (s)	Na ₂ O · V ₂ O ₅	713
NV(g)	VN	698	Na ₂ O ₇ Ti ₃ (s)	Na ₂ O · 3TiO ₂	713
NY(s)	YN	698	Na ₂ O ₇ Ti ₃ (l)	Na ₂ O · 3TiO ₂	713
NYb(s)	YbN	698	Na ₂ O ₇ W ₂ (s)	Na ₂ O · 2WO ₃	713
NZr(s)	ZrN	698	Na ₂ S(s)		714
NZr(l)	ZrN	698	Na ₂ S(l)		714
NZr(g)	ZrN	698	Na ₂ S ₂ (s)		714
N ₂ (g)		699	Na ₂ S ₂ (l)		714
N ₂ O(g)		699	Na ₂ S ₃ (s)		714
N ₂ OTh ₂ (s)	Th ₂ N ₂ O	699	Na ₂ S ₄ (s)		715
N ₂ O ₃ (g)		699	Na ₂ Se(s)		715
N ₂ O ₄ (s)		699	Na ₂ Se ₂ (s)		715
N ₂ O ₄ (l)		699	Na ₂ Te(s)		715
N ₂ O ₄ (g)		700	Na ₂ Te ₂ (s)		715
N ₂ O ₅ (g)		700	Na ₃ O ₄ P(s)	Na ₃ PO ₄	715
N ₂ O ₆ Pb(s)	Pb(NO ₃) ₂	700	Na ₃ O ₄ U(s)	Na ₃ UO ₄	715
N ₂ O ₈ U(s)	UO ₂ (NO ₃) ₂	700	Na ₃ O ₄ V(s)	Na ₃ VO ₄	716
N ₂ Sr ₃ (s)	Sr ₃ N ₂	700	Na ₃ P ₇ (s)		716
N ₂ Zn ₃ (s)	Zn ₃ N ₂	700	Na ₄ NpO ₅ (s)	2Na ₂ O · NpO ₃	716
N ₃ (g)		701	Na ₄ O ₄ Si(s)	2Na ₂ O · SiO ₂	716
N ₃ U ₂ (s)	U ₂ N ₃	701	Na ₄ O ₄ Si(l)	2Na ₂ O · SiO ₂	716
N ₄ S ₄ (s)		701	Na ₄ O ₇ P ₂ (s)	2Na ₂ O · P ₂ O ₅	717
N ₄ S ₄ (g)		701	Na ₄ O ₇ V ₂ (s)	2Na ₂ O · V ₂ O ₅	717
N ₄ Se ₄ (s)	Se ₄ N ₄	701	Na ₆ O ₇ Si ₂ (s)	3Na ₂ O · 2SiO ₂	717
N ₄ Se ₄ (g)	Se ₄ N ₄	701	Na ₆ O ₈ P ₂ (s)	3Na ₂ O · P ₂ O ₅	717
N ₄ Si ₃ (s)	Si ₃ N ₄	701	Na ₆ O ₈ V ₂ (s)	3Na ₂ O · V ₂ O ₅	717
N ₄ Th ₃ (s)	Th ₃ N ₄	702	Nb(s)		717
N ₅ P ₃ (s)	P ₃ N ₅	702	Nb(l)		718
Na(s)		702	Nb(g)		718
Na(l)		702	NbO(s)		718
Na(g)		702	NbO(l)		718
NaO(g)		703	NbO(g)		718
NaO ₂ (s)		703	NbO ₂ (s)		718
NaO ₃ V(s)	NaVO ₃	703	NbO ₂ (l)		719
NaTe(s)		703	NbO ₂ (g)		719
NaTe ₃ (s)		703	NbO ₄ Sb(s)	SbNbO ₄	719
Na ₂ (g)		703	NbS(g)		719
Na ₂ NpO ₄ (s)	Na ₂ O · NpO ₃	704	NbS ₂ (s)		719
Na ₂ O(s)		704	NbSi ₂ (s)		719
Na ₂ O(l)		705	Nb ₂ O ₅ (s)		720
Na ₂ O ₂ (s)		705	Nb ₂ O ₅ (l)		720
Na ₂ O ₃ S(s)	Na ₂ SO ₃	706	Nb ₅ Si ₃ (s)	Nb ₅ Si ₃	720
Na ₂ O ₃ S(l)	Na ₂ SO ₃	706	Nd(s)		720
Na ₂ O ₃ S ₂ (s)	Na ₂ S ₂ O ₃	706	Nd(l)		721
Na ₂ O ₃ Si(s)	Na ₂ O · SiO ₂	706	Nd(g)		721
Na ₂ O ₃ Si(l)	Na ₂ O · SiO ₂	707	NdS(s)		721
Na ₂ O ₃ Te(s)	Na ₂ TeO ₃	707	NdS(g)		721
Na ₂ O ₃ Ti(s)	Na ₂ O · TiO ₂	707	NdSe(s)		722
Na ₂ O ₃ Ti(l)	Na ₂ O · TiO ₂	708	NdSe(g)		722
Na ₂ O ₃ Zr(s)	Na ₂ O · ZrO ₂	708	NdTe(s)		722
Na ₂ O ₄ S(s)	Na ₂ SO ₄	708	NdTe(g)		722
Na ₂ O ₄ S(l)	Na ₂ SO ₄	709	Nd ₂ O ₃ (s)		722
Na ₂ O ₄ S(g)	Na ₂ SO ₄	710	Nd ₂ O ₇ Zr ₂ (s)	Nd ₂ O ₃ · 2ZrO ₂	723
Na ₂ O ₄ U(s)	Na ₂ O · UO ₃	710	Nd ₂ O ₁₂ S ₃ (s)	Nd ₂ (SO ₄) ₃	723
Na ₂ O ₄ W(s)	Na ₂ O · WO ₃	710	Nd ₂ S ₃ (s)		723
Na ₂ O ₄ W(l)	Na ₂ O · WO ₃	711	Nd ₂ Se ₃ (s)		723
Na ₂ O ₅ Si ₂ (s)	Na ₂ O · 2SiO ₂	711	Nd ₂ Te ₃ (s)		723
Na ₂ O ₅ Si ₂ (l)	Na ₂ O · 2SiO ₂	712	Ne(g)		723
Na ₂ O ₅ Ti ₂ (s)	Na ₂ O · 2TiO ₂	712	Ni(s)		724
Na ₂ O ₅ Ti ₂ (l)	Na ₂ O · 2TiO ₂	712	Ni(l)		724
Na ₂ O ₆ P ₂ (s)	Na ₂ O · P ₂ O ₅	713	Ni(g)		724

NiO(s)		724	OSr(l)	SrO	738
NiO(g)		724	OSr(g)	SrO	738
NiO ₃ Se(s)	NiSeO ₃	725	OTa(g)	TaO	738
NiO ₃ Ti(s)	NiO · TiO ₂	725	OTe(g)	TeO	738
NiO ₄ S(s)	NiSO ₄	725	OTh(g)	ThO	738
NiO ₄ W(s)	NiO · WO ₃	725	OTi(s)	TiO	738
NiS _{0.84} (s)		725	OTi(l)	TiO	739
NiS(s)		725	OTi(g)	TiO	739
NiS(l)		726	OTi ₂ (s)	Ti ₂ O	739
NiS(g)		726	OTi ₂ (l)	Ti ₂ O	740
NiS ₂ (s)		726	OTi ₂ (g)	Ti ₂ O	740
NiS ₂ (l)		727	OV(s)	VO	740
NiSb(s)		727	OV(l)	VO	740
NiSe(s)		727	OV(g)	VO	740
NiSe _{1.143} (s)		727	OW(g)	WO	741
NiSe _{1.25} (s)		727	OZn(s)	ZnO	741
NiSe ₂ (s)		727	OZr(g)	ZrO	741
NiSi(s)		728	O ₂ (g)		741
NiSi(l)		728	O ₂ Os(s)	OsO ₂	741
NiSi ₂ (s)		728	O ₂ P(g)	PO ₂	741
NiTe(s)		728	O ₂ Pb(s)	PbO ₂	742
NiTe _{1.1} (s)	NiTe _{1.1}	728	O ₂ Pr(s)	PrO ₂	742
NiTe ₂ (s)		728	O ₂ Pt(g)	PtO ₂	742
NiTl(s)		729	O ₂ Pu(s)	PuO ₂	742
NiTl ₂ (s)		729	O ₂ Rb(s)	RbO ₂	742
Ni ₂ O ₄ Si(s)	2NiO · SiO ₂	729	O ₂ Re(s)	ReO ₂	742
Ni ₂ P(s)		729	O ₂ Rh(g)	RhO ₂	743
Ni ₂ Te ₃ (s)		729	O ₂ Ru(s)	RuO ₂	743
Ni ₃ P(s)		729	O ₂ S(g)	SO ₂	743
Ni ₃ S ₂ (s)		729	O ₂ Se(s)	SeO ₂	743
Ni ₃ S ₂ (l)		730	O ₂ Se(g)	SeO ₂	743
Ni ₃ S ₄ (s)		730	O ₂ Si(s)	SiO ₂	744
Ni ₃ Sn(s)	Ni ₃ Sn	730	O ₂ Si(l)	SiO ₂	745
Ni ₃ Sn ₂ (s)		731	O ₂ Si(g)	SiO ₂	746
Ni ₃ Sn ₄ (s)		731	O ₂ Sn(s)	SnO ₂	746
Ni ₃ Ti(s)		731	O ₂ Sr(s)	SrO ₂	746
Ni ₅ P ₂ (s)		731	O ₂ Ta(g)	TaO ₂	747
Ni ₇ Si ₁₃ (s)		731	O ₂ Tb(s)	TbO ₂	747
Np(s)		731	O ₂ Tc(s)	TcO ₂	747
Np(l)		732	O ₂ Te(s)	TeO ₂	747
Np(g)		732	O ₂ Te(l)	TeO ₂	748
O(g)		733	O ₂ Te(g)	TeO ₂	748
OP(g)	PO	733	O ₂ Te ₂ (g)	Te ₂ O ₂	748
OPb(s)	PbO	733	O ₂ Th(s)	ThO ₂	748
OPb(l)	PbO	734	O ₂ Th(g)	ThO ₂	748
OPb(g)	PbO	734	O ₂ Ti(s)	TiO ₂	749
OPd(s)	PdO	734	O ₂ Ti(l)	TiO ₂	749
OPd(g)	PdO	734	O ₂ Ti(g)	TiO ₂	749
OPu(s)	PuO	735	O ₂ U(s)	UO ₂	749
ORb ₂ (s)	Rb ₂ O	735	O ₂ U(g)	UO ₂	749
ORb ₂ (l)	Rb ₂ O	735	O ₂ U ₂ (g)	U ₂ O ₂	750
ORh(g)	RhO	736	O ₂ V(s)	VO ₂	750
OS(g)	SO	736	O ₂ V(l)	VO ₂	750
OS ₂ (g)	S ₂ O	736	O ₂ V(g)	VO ₂	751
OSb(g)	SbO	736	O ₂ W(s)	WO ₂	751
Osc(g)	ScO	736	O ₂ W(g)	WO ₂	751
OSe(g)	SeO	736	O ₂ Zr(s)	ZrO ₂	751
OSi(g)	SiO	737	O ₂ Zr(l)	ZrO ₂	752
OSn(s)	SnO	737	O ₂ Zr(g)	ZrO ₂	752
OSn(l)	SnO	737	O _{2.72} W(s)	WO _{2.72}	752
OSn(g)	SnO	737	O _{2.90} W(s)	WO _{2.90}	752
OSr(s)	SrO	737	O _{2.96} W(s)	WO _{2.96}	752

O ₃ (g)		752	O ₄ SSr(s)	SrSO ₄	767
O ₃ Os(g)	OsO ₃	753	O ₄ STl ₂ (s)	Tl ₂ SO ₄	767
O ₃ PbSe(s)	PbSeO ₃	753	O ₄ STl ₂ (l)	Tl ₂ SO ₄	768
O ₃ PbSi(s)	PbO · SiO ₂	753	O ₄ STl ₂ (g)	Tl ₂ SO ₄	768
O ₃ PbSi(l)	PbO · SiO ₂	753	O ₄ SZn(s)	ZnSO ₄	768
O ₃ PbTi(s)	PbO · TiO ₂	753	O ₄ Sb ₂ (s)	Sb ₂ O ₄	769
O ₃ Pm ₂ (s)	Pm ₂ O ₃	754	O ₄ SiSr ₂ (s)	2SrO · SiO ₂	769
O ₃ PrSr(s)	SrPrO ₃	754	O ₄ SiZn ₂ (s)	2ZnO · SiO ₂	769
O ₃ Pr ₂ (s)	Pr ₂ O ₃	754	O ₄ SiZr(s)	ZrO ₂ · SiO ₂	769
O ₃ Pu ₂ (s)	Pu ₂ O ₃	754	O ₄ SrW(s)	SrO · WO ₃	769
O ₃ Rb ₂ Si(s)	Rb ₂ O · SiO ₂	755	O ₄ Sr ₂ Ti(s)	2SrO · TiO ₂	770
O ₃ Rb ₂ Si(l)	Rb ₂ O · SiO ₂	755	O ₄ Te ₂ (g)	(TeO ₂) ₂	770
O ₃ Re(s)	ReO ₃	755	O ₄ TiZn ₂ (s)	2ZnO · TiO ₂	770
O ₃ Rh ₂ (s)	Rh ₂ O ₃	755	O ₄ U ₂ (g)	U ₂ O ₄	770
O ₃ Ru(g)	RuO ₃	755	O ₄ V ₂ (s)	V ₂ O ₄	770
O ₃ S(l)	SO ₃	756	O ₄ V ₂ (l)	V ₂ O ₄	770
O ₃ S(g)	SO ₃	756	O ₄ WZn(s)	ZnO · WO ₃	771
O ₃ Sb ₂ (s)	Sb ₂ O ₃	756	O ₅ P ₂ (l)	P ₂ O ₅	771
O ₃ Sc ₂ (s)	Sc ₂ O ₃	756	O ₅ Pb ₂ S(s)	PbO · PbSO ₄	771
O ₃ Se(s)	SeO ₃	756	O ₅ Rb ₂ Si ₂ (s)	Rb ₂ O · 2SiO ₂	771
O ₃ Se(l)	SeO ₃	757	O ₅ Rb ₂ Si ₂ (l)	Rb ₂ O · 2SiO ₂	771
O ₃ SeZn(s)	ZnSeO ₃	757	O ₅ SV(s)	VOSO ₄	772
O ₃ SeZn(l)	ZnSeO ₃	757	O ₅ Sb ₂ (s)	Sb ₂ O ₅	772
O ₃ SiSr(s)	SrO · SiO ₂	757	O ₅ Se ₂ (s)	Se ₂ O ₅	772
O ₃ SiZn(s)	ZnO · SiO ₂	758	O ₅ SrTe ₂ (s)	SrO · 2TeO ₂	772
O ₃ Sm ₂ (s)	Sm ₂ O ₃	758	O ₅ Ta ₂ (s)	Ta ₂ O ₅	772
O ₃ SrTb(s)	SrO · TbO ₂	758	O ₅ Ta ₂ (l)	Ta ₂ O ₅	772
O ₃ SrTe(s)	SrO · TeO ₂	758	O ₅ Ti ₃ (s)	Ti ₃ O ₅	773
O ₃ SrTi(s)	SrO · TiO ₂	759	O ₅ Ti ₃ (l)	Ti ₃ O ₅	773
O ₃ SrZr(s)	SrO · ZrO ₂	759	O ₅ V ₂ (s)	V ₂ O ₅	773
O ₃ Tb ₂ (s)	Tb ₂ O ₃	759	O ₅ V ₂ (l)	V ₂ O ₅	774
O ₃ Tc(s)	TcO ₃	759	O ₅ V ₃ (s)	V ₃ O ₅	774
O ₃ Ti ₂ (s)	Ti ₂ O ₃	759	O ₆ P ₄ (l)	P ₄ O ₆	774
O ₃ Ti ₂ (l)	Ti ₂ O ₃	760	O ₆ P ₄ (g)	P ₄ O ₆	774
O ₃ Tl ₂ (s)	Tl ₂ O ₃	760	O ₆ Pb ₃ S(s)	2PbO · PbSO ₄	775
O ₃ Tm ₂ (s)	Tm ₂ O ₃	760	O ₆ Pb ₄ Si(s)	4PbO · SiO ₂	775
O ₃ U(s)	UO ₃	760	O ₆ PuSr ₃ (s)	3SrO · PuO ₃	775
O ₃ U(g)	UO ₃	761	O ₆ SU(s)	UO ₂ SO ₄	775
O ₃ U ₂ (g)	U ₂ O ₃	761	O ₆ Sb ₄ (s)	Sb ₄ O ₆	775
O ₃ V ₂ (s)	V ₂ O ₃	761	O ₆ Sb ₄ (g)	Sb ₄ O ₆	775
O ₃ V ₂ (l)	V ₂ O ₃	761	O ₆ W ₂ (g)	(WO ₃) ₂	776
O ₃ W(s)	WO ₃	761	O ₇ Pb ₄ S(s)	3PbO · PbSO ₄	776
O ₃ W(l)	WO ₃	762	O ₇ Re ₂ (s)	Re ₂ O ₇	776
O ₃ W(g)	WO ₃	762	O ₇ Re ₂ (l)	Re ₂ O ₇	776
O ₃ Xe(g)	XeO ₃	762	O ₇ Re ₂ (g)	Re ₂ O ₇	777
O ₃ Y ₂ (s)	Y ₂ O ₃	763	O ₇ Si ₂ SrZr(s)	SrZrSi ₂ O ₇	777
O ₃ Yb ₂ (s)	Yb ₂ O ₃	763	O ₇ Si ₂ Y ₂ (s)	Y ₂ Si ₂ O ₇	777
O ₄ Os(s)	OsO ₄	764	O ₇ Sm ₂ Zr ₂ (s)	Sm ₂ O ₃ · 2ZrO ₂	777
O ₄ Os(l)	OsO ₄	764	O ₇ Tc ₂ (s)	Tc ₂ O ₇	777
O ₄ Os(g)	OsO ₄	764	O ₇ Tc ₂ (l)	Tc ₂ O ₇	778
O ₄ PbS(s)	PbSO ₄	764	O ₇ Tc ₂ (g)	Tc ₂ O ₇	778
O ₄ PbS(l)	PbSO ₄	765	O ₇ Ti ₄ (s)	Ti ₄ O ₇	778
O ₄ PbSe(s)	PbSeO ₄	765	O ₇ Ti ₄ (l)	Ti ₄ O ₇	778
O ₄ PbW(s)	PbO · WO ₃	765	O ₇ V ₄ (s)	V ₄ O ₇	778
O ₄ Pb ₂ Si(s)	2PbO · SiO ₂	765	O ₇ Y ₂ Zr ₂ (s)	Y ₂ Zr ₂ O ₇	779
O ₄ Pb ₃ (s)	Pb ₃ O ₄	766	O ₈ MgSi ₂ Sr ₃ (s)	3SrO · MgO · 2SiO ₂	779
O ₄ Rb ₂ S(s)	Rb ₂ SO ₄	766	O ₈ P ₂ Zn ₃ (s)	Zn ₃ (PO ₄) ₂	779
O ₄ Rb ₂ S(l)	Rb ₂ SO ₄	766	O ₈ PuS ₂ (s)	Pu(SO ₄) ₂	779
O ₄ Ru(l)	RuO ₄	767	O ₈ S ₂ Sn(s)	Sn(SO ₄) ₂	779
O ₄ Ru(g)	RuO ₄	767	O ₈ S ₂ Th(s)	Th(SO ₄) ₂	779
O ₄ SSn(s)	SnSO ₄	767	O ₈ S ₂ U(s)	U(SO ₄) ₂	780

$O_8U_3(s)$	U_3O_8	780	$PbSe(l)$	793
$O_8W_3(g)$	W_3O_8	780	$PbSe(g)$	793
$O_9Rb_2Si_4(s)$	$Rb_2O \cdot 4SiO_2$	780	$PbTe(s)$	793
$O_9Rb_2Si_4(l)$	$Rb_2O \cdot 4SiO_2$	780	$PbTe(l)$	793
$O_9S_2Zn_3(s)$	$ZnO \cdot 2ZnSO_4$	781	$PbTe(g)$	793
$O_9U_4(s)$	U_4O_9	781	$Pb_2(g)$	794
$O_9W_3(g)$	$(WO_3)_3$	781	$Pb_2S_2(g)$	$(PbS)_2$ 794
$O_{10}P_4(s)$	P_4O_{10}	781	$Pb_2Se_2(g)$	$(PbSe)_2$ 794
$O_{10}P_4(g)$	P_4O_{10}	781	$Pd(s)$	794
$O_{10}Sr_4Ti_3(s)$	$4SrO \cdot 3TiO_2$	782	$Pd(l)$	794
$O_{10}Sr_4Zr_3(s)$	$4SrO \cdot 3ZrO_2$	782	$Pd(g)$	795
$O_{12}Pr_7(s)$	Pr_7O_{12}	782	$PdS(s)$	795
$O_{12}S_3Sb_2(s)$	$Sb_2(SO_4)_3$	782	$PdS_2(s)$	795
$O_{12}Tb_7(s)$	Tb_7O_{12}	782	$PdSe_{0.889}(s)$	795
$O_{12}W_4(g)$	$(WO_3)_4$	782	$PdSe(s)$	795
$O_{18}Si_5Sr_6Zr(s)$	$Sr_6ZrSi_5O_{18}$	783	$PdSe_2(s)$	795
$O_{20}Tb_{11}(s)$	$Tb_{11}O_{20}$	783	$PdSi(s)$	795
$O_{22}Pr_{12}(s)$	$Pr_{12}O_{22}$	783	$PdTe(s)$	795
$Os(s)$		783	$PdTe_2(s)$	796
$Os(l)$		784	$Pd_2Si(s)$	796
$Os(g)$		784	$Pd_3Si(s)$	796
$OsP_2(s)$		784	$Pd_4S(s)$	796
$OsS_2(s)$		784	$Pd_4Se(s)$	796
$OsSe_2(s)$		784	$Pd_5Si(s)$	796
$OsTe_2(s)$		784	$PmS(s)$	796
$P(s)$		785	$PmSe(s)$	796
$P(l)$		786	$PmTe(s)$	797
$P(g)$		786	$Pm_2S_3(s)$	797
$PPd_3(s)$	Pd_3P	786	$Pm_2Se_3(s)$	797
$PS(g)$		786	$Pm_2Te_3(s)$	797
$PSi(s)$	SiP	786	$Pr(s)$	797
$PTh(s)$	ThP	786	$Pr(l)$	798
$PTh(g)$	ThP	787	$Pr(g)$	798
$PU(s)$	UP	787	$PrS(s)$	798
$P_2(g)$		787	$PrS(g)$	798
$P_2U(s)$	UP_2	787	$PrSe(s)$	798
$P_2Zn(s)$	ZnP_2	787	$PrSe(g)$	798
$P_2Zn_3(s)$	Zn_3P_2	787	$PrTe(s)$	799
$P_4(g)$		788	$PrTe(g)$	799
$P_4S_3(s)$		788	$Pr_2S_3(s)$	799
$P_4S_3(l)$		788	$Pr_2Se_3(s)$	799
$P_4S_3(g)$		788	$Pr_2Te_3(s)$	799
$P_4S_6(s)$		788	$Pr_3S_4(s)$	799
$P_4S_6(s)$		788	$Pt(s)$	799
$P_4S_6(l)$		789	$Pt(l)$	800
$P_4S_7(s)$		789	$Pt(g)$	800
$P_4S_7(l)$		789	$PtS(s)$	800
$P_4S_{10}(s)$		789	$PtS_2(s)$	800
$P_4S_{10}(l)$		789	$PtSe_2(s)$	800
$P_4Th_3(s)$	Th_3P_4	790	$PtTe(s)$	800
$P_4U_3(s)$	U_3P_4	790	$PtTe_2(s)$	801
$P_5S_3(g)$		790	$Pt_6Se_4(s)$	801
$Pa(s)$		790	$Pu(s)$	801
$Pa(l)$		791	$Pu(l)$	803
$Pa(g)$		791	$Pu(g)$	803
$Pb(s)$		791	$PuS(s)$	803
$Pb(l)$		791	$Pu_2S_3(s)$	803
$Pb(g)$		792	$Rb(s)$	803
$PbS(s)$		792	$Rb(l)$	803
$PbS(l)$		792	$Rb(g)$	804
$PbS(g)$		792	$Rb_2(g)$	804
$PbSe(s)$		792	$Rb_2S(s)$	804

Rb ₃ P ₇ (s)		804	STl ₂ (l)	Tl ₂ S	816
Re(s)		805	STl ₂ (g)	Tl ₂ S	816
Re(l)		805	STm(s)	TmS	816
Re(g)		805	STm(g)	TmS	816
ReS ₂ (s)		805	SU(s)	US	816
ReS ₃ (s)		805	SU(g)	US	816
ReSe ₂ (s)		805	SV(g)	VS	817
ReSi(s)		806	SY(s)	YS	817
ReSi ₂ (s)		806	SY(g)	YS	817
ReTe ₂ (s)		806	SYb(s)	YbS	817
Re ₂ S ₇ (s)		806	SYb(g)	YbS	817
Re ₂ Se ₇ (s)		806	SZn(s)	ZnS	817
Re ₂ Te ₅ (s)		806	SZn(g)	ZnS	818
Re ₂ Th(s)	ThRe ₂	806	SZr(g)	ZrS	818
Re ₂ Y(s)		807	S _{1.043} V(s)	VS _{1.043}	818
Re ₅ Si ₃ (s)		807	S _{1.7} Th(s)	ThS _{1.7}	818
Rh(s)		807	S ₂ (g)		818
Rh(l)		807	S ₂ Sb ₃ (g)	Sb ₃ S ₂	819
Rh(g)		807	S ₂ Si(s)	SiS ₂	819
RhS _{0.885} (s)		808	S ₂ Si(l)	SiS ₂	819
RhS _{1.875} (s)		808	S ₂ Si(g)	SiS ₂	819
RhS _{2.3} (s)		808	S ₂ Sn(s)	SnS ₂	820
RhSe ₂ (s)		808	S ₂ Sn ₂ (g)	Sn ₂ S ₂	820
RhTe(s)		808	S ₂ Ta(s)	TaS ₂	820
RhTe ₂ (s)		808	S ₂ Tc(s)	TcS ₂	820
Rh ₂ S ₃ (s)		808	S ₂ Th(s)	ThS ₂	820
Rh ₃ S ₄ (s)		808	S ₂ Ti(s)	TiS ₂	820
Rh ₃ U(s)		809	S ₂ Tl(s)	TlS ₂	821
Rn(g)		809	S ₂ U(s)	US ₂	821
Ru(s)		809	S ₂ U(g)	US ₂	821
Ru(l)		809	S ₂ W(s)	WS ₂	821
Ru(g)		809	S ₂ Zr(s)	ZrS ₂	821
RuS ₂ (s)		810	S ₃ (g)		821
RuSe ₂ (s)		810	S ₃ Sb ₂ (s)	Sb ₂ S ₃	822
RuTe ₂ (s)		810	S ₃ Sb ₂ (l)	Sb ₂ S ₃	822
Ru ₃ U(s)		810	S ₃ Sb ₂ (g)	Sb ₂ S ₃	822
S(s)		810	S ₃ Sb ₄ (g)	Sb ₄ S ₃	822
S(l)		811	S ₃ Sc ₂ (s)	Sc ₂ S ₃	822
S(g)		811	S ₃ Sm ₂ (s)	Sm ₂ S ₃	823
SSb(g)	SbS	811	S ₃ Sn ₂ (s)	Sn ₂ S ₃	823
SSc(s)	ScS	811	S ₃ Ta(s)	TaS ₃	823
SSc(g)	ScS	811	S ₃ Tb ₂ (s)	Tb ₂ S ₃	823
SSe(g)		812	S ₃ Tc(s)	TcS ₃	823
SSi(s)	SiS	812	S ₃ Th ₂ (s)	Th ₂ S ₃	823
SSi(g)	SiS	812	S ₃ Ti(s)	TiS ₃	824
SSm(s)	SmS	812	S ₃ Tl ₄ (s)	Tl ₄ S ₃	824
SSm(g)	SmS	812	S ₃ Tm ₂ (s)	Tm ₂ S ₃	824
SSn(s)	SnS	812	S ₃ U(s)	US ₃	824
SSn(l)	SnS	813	S ₃ U ₂ (s)	U ₂ S ₃	824
SSn(g)	SnS	813	S ₃ W(s)	WS ₃	824
SSr(s)	SrS	813	S ₃ Y ₂ (s)	Y ₂ S ₃	824
SSr(g)	SrS	814	S ₃ Yb ₂ (s)	Yb ₂ S ₃	825
STa(g)	TaS	814	S ₃ Zr(s)	ZrS ₃	825
STb(s)	TbS	814	S ₄ (g)		825
STb(g)	TbS	814	S ₄ Sb ₂ (g)	Sb ₂ S ₄	825
STe(g)	TeS	814	S ₄ Sn ₃ (s)	Sn ₃ S ₄	825
STh(s)	ThS	814	S ₄ V(s)	VS ₄	825
STi(s)	TiS	815	S ₅ (g)		826
STi(g)	TiS	815	S ₆ (g)		826
STl ₂ (s)	Tl ₂ S	815	S ₇ (g)		826
STl(s)	TlS	815	S ₇ Tc ₂ (s)	Tc ₂ S ₇	826
STl ₂ (s)	Tl ₂ S	815	S ₇ Th ₃ (s)	Th ₃ S ₇	826

S ₈ (g)		826	Se ₂ Si(g)	SiSe ₂	838
Sb(s)		827	Se ₂ Sn(s)	SnSe ₂	838
Sb(l)		827	Se ₂ Sn ₂ (g)	Sn ₂ Se ₂	838
Sb(g)		827	Se ₂ Th(s)	ThSe ₂	838
SbSe(g)		827	Se ₂ Ti(s)	TiSe ₂	838
SbTe(g)		827	Se ₂ U(s)	USE ₂	838
SbZn(s)	ZnSb	828	Se ₂ W(s)	WSe ₂	838
SbZn(l)	ZnSb	828	Se ₂ Zr(s)	ZrSe ₂	839
Sb ₂ (g)		828	Se ₃ (g)		839
Sb ₂ Se ₃ (s)		828	Se ₃ Sm ₂ (s)	Sm ₂ Se ₃	839
Sb ₂ Se ₃ (l)		829	Se ₃ Tb ₂ (s)	Tb ₂ Se ₃	839
Sb ₂ Te ₃ (s)		829	Se ₃ Th ₂ (s)	Th ₂ Se ₃	839
Sb ₂ Te ₃ (l)		829	Se ₃ Tl ₂ (s)	Tl ₂ Se ₃	839
Sb ₂ U(s)	USb ₂	829	Se ₃ Tm ₂ (s)	Tm ₂ Se ₃	839
Sb ₄ (g)		829	Se ₃ U(s)	USE ₃	840
Sb ₄ U ₃ (s)	U ₃ Sb ₄	829	Se ₃ U ₂ (s)	U ₂ Se ₃	840
Sc(s)		830	Se ₃ Y ₂ (s)	Y ₂ Se ₃	840
Sc(l)		830	Se ₃ Yb ₂ (s)	Yb ₂ Se ₃	840
Sc(g)		830	Se ₃ Zr(s)	ZrSe ₃	840
ScSe(s)		831	Se ₄ (g)		840
ScSe(g)		831	Se ₄ U ₃ (s)	U ₃ Se ₄	840
ScTe(s)		831	Se ₅ (g)		841
ScTe(g)		831	Se ₅ U ₃ (s)	U ₃ Se ₅	841
Sc ₂ (g)		831	Se ₆ (g)		841
Sc ₂ Se ₃ (s)		831	Se ₇ (g)		841
Sc ₂ Te ₃ (s)		831	Se ₈ (g)		841
Sc ₅ Si ₃ (s)		831	Si(s)		841
Se(s)		832	Si(l)		842
Se(l)		832	Si(g)		842
Se(g)		832	SiTa ₂ (s)	Ta ₂ Si	842
SeSi(g)	SiSe	832	SiTe(g)		842
SeSm(s)	SmSe	832	SiTe ₂ (g)		842
SeSm(g)	SmSe	833	SiTh(s)	ThSi	843
SeSn(s)	SnSe	833	SiTi(s)	TiSi	843
SeSn(l)	SnSe	833	SiU(s)	USi	843
SeSn(g)	SnSe	833	SiU ₃ (s)	U ₃ Si	843
SeSr(s)	SrSe	834	SiV ₃ (s)	V ₃ Si	843
SeSr(g)	SrSe	834	SiZr(s)	ZrSi	843
SeTb(s)	TbSe	834	SiZr ₂ (s)	Zr ₂ Si	844
SeTb(g)	TbSe	834	Si ₂ (g)		844
SeTe(g)	TeSe	834	Si ₂ Ta(s)	TaSi ₂	844
SeTh(s)	ThSe	834	Si ₂ Te ₃ (s)		844
SeTi(s)	TiSe	834	Si ₂ Th(s)	ThSi ₂	844
SeTi(g)	TiSe	835	Si ₂ Th ₃ (s)	Th ₃ Si ₂	844
SeTl(s)	TlSe	835	Si ₂ Ti(s)	TiSi ₂	845
SeTl ₂ (s)	Tl ₂ Se	835	Si ₂ U(s)	USi ₂	845
SeTl ₂ (g)	Tl ₂ Se	835	Si ₂ U ₃ (s)	U ₃ Si ₂	845
SeTm(s)	TmSe	835	Si ₂ V(s)	VSi ₂	845
SeTm(g)	TmSe	835	Si ₂ W(s)	WSi ₂	845
SeU(s)	USE	836	Si ₂ Zr(s)	ZrSi ₂	846
SeU(g)	USE	836	Si ₃ (g)		846
SeV(g)	VSe	836	Si ₃ Ta ₅ (s)	Ta ₅ Si ₃	846
SeY(s)	SeY	836	Si ₃ Ti ₅ (s)	Ti ₅ Si ₃	846
SeY(g)	YSe	836	Si ₃ U(s)	USi ₃	846
SeYb(s)	YbSe	836	Si ₃ V ₅ (s)	V ₅ Si ₃	846
SeYb(g)	YbSe	836	Si ₃ W ₅ (s)	W ₅ Si ₃	847
SeZn(s)	ZnSe	837	Si ₃ Zr ₅ (s)	Zr ₅ Si ₃	847
SeZn(g)	ZnSe	837	Si ₄ (g)		847
Se _{1.7} Th(s)	ThSe _{1.7}	837	Si ₅ Th ₃ (s)	Th ₃ Si ₅	847
Se _{1.94} Si(s)	SiSe _{1.94}	837	Si ₅ U ₃ (s)	U ₃ Si ₅	847
Se ₂ (g)		837	Sm(s)		847
Se ₂ Si(s)	SiSe ₂	837	Sm(l)		848

Sm(g)		848	Te ₄ Zr ₅ (s)	Zr ₅ Te ₄	860
SmTe(s)		848	Te ₅ U ₃ (s)	U ₃ Te ₅	860
SmTe(g)		849	Te ₇ U ₃ (s)	U ₃ Te ₇	860
Sm ₂ Te ₃ (s)		849	Th(s)		860
Sn(s)		849	Th(l)		861
Sn(l)		849	Th(g)		861
Sn(g)		849	Ti(s)		861
SnTe(s)		850	Ti(l)		862
SnTe(l)		850	Ti(g)		862
SnTe(g)		850	Tl(s)		862
SnTe ₂ (g)		850	Tl(l)		863
Sn ₂ Te ₂ (g)		850	Tl(g)		863
Sr(s)		851	Tm(s)		863
Sr(l)		851	Tm(l)		864
Sr(g)		852	Tm(g)		864
SrTe(s)		852	U(s)		864
Ta(s)		852	U(l)		865
Ta(l)		852	U(g)		865
Ta(g)		853	V(s)		865
Tb(s)		853	V(l)		865
Tb(l)		853	V(g)		866
Tb(g)		854	W(s)		866
TbTe(s)		854	W(l)		866
TbTe(g)		854	W(g)		866
Tb ₂ Te ₃ (s)		854	Xe(g)		866
Tc(s)		854	Y(s)		866
Tc(l)		854	Y(l)		867
Tc(g)		855	Y(g)		867
Te(s)		855	Yb(s)		867
Te(l)		855	Yb(l)		868
Te(g)		855	Yb(g)		868
TeTh(s)	ThTe	855	Zn(s)		868
TeTi(s)	TiTe	855	Zn(l)		869
TeTi(g)	TiTe	856	Zn(g)		869
TeTi ₂ (s)	Ti ₂ Te	856	Zr(s)		869
TeTl(s)	TlTe	856	Zr(l)		870
TeTl ₂ (s)	Tl ₂ Te	856	Zr(g)		870
TeTm(s)	TmTe	856			
TeTm(g)	TmTe	856			
TeU(s)	UTe	856			
TeU(g)	UTe	857			
TeV(g)	VTe	857			
TeY(s)	YTe	857			
TeY(g)	YTe	857			
TeYb(s)	YbTe	857			
TeYb(g)	YbTe	857			
TeZn(s)	ZnTe	857			
TeZn(g)	ZnTe	858			
Te ₂ (g)		858			
Te ₂ Th(s)	ThTe ₂	858			
Te ₂ Ti(s)	TiTe ₂	858			
Te ₂ U(s)	UTe ₂	858			
Te ₂ W(s)	WTe ₂	858			
Te ₂ Zr(s)	ZrTe ₂	858			
Te ₃ Th ₂ (s)	Th ₂ Te ₃	859			
Te ₃ Tl ₂ (s)	Tl ₂ Te ₃	859			
Te ₃ Tm ₂ (s)	Tm ₂ Te ₃	859			
Te ₃ U(s)	UTe ₃	859			
Te ₃ U ₂ (s)	U ₂ Te ₃	859			
Te ₃ Y ₂ (s)	Y ₂ Te ₃	859			
Te ₃ Zr(s)	ZrTe ₃	859			
Te ₄ U ₃ (s)	U ₃ Te ₄	860			