

3 Tabulated Data on Vapor Pressure of Sulfur, Selenium, and Tellurium Containing Organic Compounds

3.1 Sulfur Containing Organic Compounds, C₁ to C₄ (and Some Sulfur Containing Inorganic Compounds)

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T_b</i> [K]/ <i>P_b</i> [kPa] | Ref. Note |
|-----------|---|----------------------------|---------------------------------------|------------------------|----------------------|--|-------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 1 | Br₂OS | | Thionyl bromide | | | | 507-16-4 |
| l-g | 6.181 | 1445 | −67.15 | 313/439 | 303/449 C | | 59-trcnh |
| 2 | Br₂S₂ | | Disulfur dibromide | | | | 13172-31-1 |
| l-g | 6.302 | 1660 | −88.15 | 365/503 | 359/510 C | | 59-trcnh |
| 3 | BrFO₂S | | Sulfuryl bromide fluoride | | | | 13536-61-3 |
| l-g | 6.2677 | 1155 | −42.15 | 236/333 | 228/341 C | | 59-trcnh |
| 4 | Cl₂O₂S | | Sulfuryl chloride | | | | 7791-25-5 |
| l-g | 6.1266 | 1209 | −49.15 | 257/365 | 251/372 C | | 59-trcnh |
| 5 | Cl₂O₅S₂ | | Pyrosulfuryl dichloride | | | | 7791-27-7 |
| l-g | 6.144 | 1460 | −71.15 | 325/450 | 321/451 D | | 59-trcnh |
| 6 | Cl₂OS | | Thionyl chloride | | | | 7719-09-7 |
| l-g | 6.41235 | 1446.7 | −20.45 | 257/372 | 247/382 C | | 59-trcnh |
| 7 | Cl₂S | | Sulfur chloride | | | | 10545-99-0 |
| l-g | 7.579 | 1594 | −46.15 | 265/348 | 258/355 C | | 59-trcnh |
| 8 | Cl₂S₂ | | Disulfur dichloride | | | | 10025-67-9 |
| l-g | 5.9085 | 1341 | −67.15 | 306/439 | 301/446 C | | 59-trcnh |
| 9 | ClFO₂S | | Sulfuryl chloride fluoride | | | | 13637-84-8 |
| l-g | 5.6464 | 793.73 | −62.45 | 211/300 | 201/310 B | | 59-trcnh |
| 10 | ClFO₅S₂ | | Pyrosulfuryl chloride fluoride | | | | 13637-85-9 |
| l-g | 6.1405 | 1257.4 | −69.15 | 284/396 | 278/404 C | | 59-trcnh |
| 11 | ClFOS | | Thionyl chloride fluoride | | | | 14177-25-4 |
| l-g | 6.298 | 1100.1 | −29.15 | 212/304 | 208/310 C | | 59-trcnh |
| 12 | ClHO₃S | | Chlorosulfonic acid | | | | 7790-94-5 |
| l-g | 6.174 | 1480 | −72.15 | 324/454 | 324/454 D | | 59-trcnh |
| 13 | FHO₃S | | Fluorosulfonic acid | | | | 7789-21-1 |
| l-g | 6.5244 | 1521 | −99.15 | 343/459 | 338/466 C | | 59-trcnh |
| 14 | FNS | | Thiazyl fluoride | | | | 18820-63-8 |
| l-g | 5.6067 | 877.1 | −34.15 | 270/299 | 265.3/303 C | 277.75/101.325 | 59-trcnh |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|-----------|---|----------------------|--|----------------|----------------------|---|--------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 15 | F₂N₂S | | Dinitrogen sulfur difluoride | | | | 500010-01-5 |
| l-g | 5.9077 | 901. | −31.15 | 192/281 | 190/282 D | 262.05/101.325 | 59-trcnh |
| 16 | F₂OS | | Thionyl fluoride | | | | 7783-42-8 |
| l-g | 6.08396 | 775.48 | −39.15 | 173/244 | 163/254 B | | 59-trcnh |
| 17 | F₂O₂S | | Sulfuryl fluoride | | | | 2699-79-8 |
| l-g | 6.0319 | 784.3 | −23.15 | 160/233 | 152/241 C | | 59-trcnh |
| 18 | F₂O₅S₂ | | Pyrosulfuryl difluoride | | | | 13036-75-4 |
| l-g | 6.006 | 1120. | −44.15 | 240/346 | 240/346 D | | 59-trcnh |
| 19 | F₂O₈S₃ | | Trisulfur octoxide difluoride | | | | 13709-33-6 |
| l-g | 6.115 | 1360. | −62.15 | 296/419 | 296/419 D | | 59-trcnh |
| 20 | F₂S₂ | | Disulfur difluoride | | | | 16860-99-4 |
| l-g | 5.809 | 628. | −17.15 | 153/196 | 153/196 D | | 59-trcnh |
| 21 | F₃NS | | Nitrogen fluoride sulfide | | | | 15930-75-3 |
| l-g | 6.01 | 888.5 | −28.15 | 184/268 | 179/275 C | 250.05/101.325 | 59-trcnh |
| 22 | F₄OS | | Sulfur oxide tetrafluoride | | | | 13709-54-1 |
| l-g | 6.1967 | 840.3 | −24.15 | 166/240 | 160/248 C | | 59-trcnh |
| 23 | F₄O₅S₂ | | Disulfur pentoxide tetrafluoride | | | | 44982-62-9 |
| l-g | 6.01 | 1140. | −46.15 | 246/353 | 246/353 D | | 59-trcnh |
| 24 | F₄S | | Sulfur tetrafluoride | | | | 7783-60-0 |
| l-g | 5.9644 | 823.4 | −25.15 | 170/250 | 165/256 C | | 59-trcnh |
| 25 | F₆S | | Sulfur hexafluoride | | | | 2551-62-4 |
| cr-g | 7.5409 | 1096.5 | −11.15 | 162/220 | 154/228 C | | 59-trcnh |
| 26 | F₁₀O₂S₂ | | Thiosulfuryl decafluoride | | | | 12395-41-4 |
| l-g | 5.999 | 1110. | −44.15 | 239/344 | 239/344 D | | 59-trcnh |
| 27 | F₁₀S₂ | | Disulfur decafluoride | | | | 5714-22-7 |
| l-g | 6.1925 | 1100.6 | −39.15 | 226/322 | 226/322 D | | 59-trcnh |
| 28 | H₂S | | Hydrogen sulfide | | | | 7783-06-4 |
| cr-g | 6.76987 | 895.191 | −22.038 | 160/185 | 150/187.6 B | 212.81/101.325 | 76-trcnh |
| l-g | 6.22882 | 806.933 | −21.761 | 185/228 | 187.6/220 B | | 76-trcnh |
| l-g | 6.22882 (0.434294) | 806.933 (−9.7793) | −21.761 (−250.94) | 228/363 | 220/373.5 B | | 76-trcnh |
| 29 | H₂S₂ | | Dihydrogen disulfide | | | | 13465-07-1 |
| l-g | 6.055 | 1199. | −48.15 | 256/367 | 256/367 D | 344.3/101.325 | 76-trcnh |
| 30 | H₂S₃ | | Dihydrogen trisulfide | | | | 13845-23-3 |
| l-g | 5.932 | 1488. | −64.15 | 328/474 | 328/474 D | 443.15/101.325 | 76-trcnh |
| 31 | H₂S₄ | | Dihydrogen tetrasulfide | | | | 13845-25-5 |
| l-g | 6.07 | 1772. | −77.15 | 384/547 | 384/547 D | 513.15/101.325 | 76-trcnh |
| 32 | H₂S₅ | | Dihydrogen pentasulfide | | | | 13845-24-4 |
| l-g | 6.445 | 2104. | −84.15 | 426/592 | 426/592 D | 558.15/101.325 | 76-trcnh |
| 33 | CCl₂F₃NS | | (Trifluoromethyl)-imidodisulfurous dichloride | | | | 10564-47-3 |
| l-g | 5.07933 | 824.684 | −99.415 | 284/344 | 274/354 C | 362.1/101.325 | 79-dykrep |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|-----------|--|------------|--|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 34 | CClF₃O₃S | | Fluorosulphuric acid, chlorodifluoromethyl ester | | | | 6069-31-4 |
| l-g | 5.84217 | 965.468 | -58.358 | 227/309 | 227/311 C | 310.01/101.325 | 66-descad |
| 35 | CCl₂F₃PS | | Dichloro(trifluoro-methylthio)phosphine | | | | 18799-78-5 |
| l-g | 6.4699 | 1655 | 0 | 293/363 | 293/363 D | | 84-dykrep |
| 36 | CClF₃S | | Trifluoromethane-sulphenyl chloride | | | | 421-17-0 |
| l-g | 5.25548 | 639.89 | -75.65 | 247/272 | 243/278 C | | 79-dykrep |
| 37 | CClF₄NO₂S | | Chloro(trifluoro-methyl)sulfamoyl fluoride | | | | 19419-95-5 |
| l-g | 6.901 | 1503 | 0 | 253/288 | 253/288 D | | 84-dykrep |
| 38 | CClF₇S | | Chlorotetrafluoro-(trifluoromethyl) | | | | 25030-42-6 |
| l-g | 6.615 | 1352 | 0 | L | C | 293.32/101.325 | 73-abeshr-1 Note 10 |
| 39 | CClF₇S | | Chlorotetrafluoro-(trifluoromethyl)sulfur | | | | 42179-04-4 |
| l-g | 6.615 | 1352 | 0 | 293/353 | 293/353 D | | 84-dykrep |
| 40 | CFNO₃S | | Sulfuryl flouride isocyanate | | | | 1495-51-8 |
| l-g | 7.68377 | 1905.36 | 0 | 294/335 | 284/345 C | | 84-dykrep |
| 41 | CFNO₆S₂ | | Pyrosulfuryl flouride isocyanate | | | | 27931-74-4 |
| l-g | 7.2599 | 2134 | 0 | 330/405 | 330/405 D | | 84-dykrep |
| 42 | CF₂N₂OS | | Cyanoimidosulfuryl fluoride | | | | 19073-57-5 |
| l-g | 7.485 | 1945 | 0 | 262/354 | 262/354 D | | 79-dykrep |
| 43 | CF₂N₂S | | Cyanoimidosulfurous difluoride | | | | 14453-41-9 |
| l-g | 8.11 | 2302 | 0 | 271/320 | 271/320 D | | 79-dykrep |
| 44 | CF₂O₄S | | Fluoroformyl fluorosulfate | | | | 7519-54-2 |
| l-g | 7.28165 | 1898.665 | 41.423 | 250/296 | 248/300 C | 260.83/10 | 66-foxfra |
| 45 | CF₂S | | Thiocarbonyl fluoride | | | | 420-32-6 |
| l-g | 6.307 | 908 | 0 | 178/211 | 178/212 C | 211.10/101.325 | 62-dow-1 Note 2 |
| 46 | CF₃NO₆S₂ | | N-(Fluoroformyl)-N,O-bis-(fluorosulfonyl)-hydroxylamine | | | | 19252-48-3 |
| l-g | 6.7944 | 1895 | 0 | 325/392 | 305/392 D | | 79-dykrep |
| 47 | CF₃NOS | | N-Sulfinyltrifluoro-methanamine | | | | 10564-49-5 |
| l-g | 6.858 | 1413 | 0 | 239/289 | 239/289 D | | 79-dykrep |
| 48 | CF₃NOS | | S,S-Difluoro-N-(fluoroformyl)-sulfilimine | | | | 3855-41-2 |
| l-g | 8.0655 | 1950 | 0 | 220/323 | 210/333 C | | 79-dykrep |
| 49 | CF₄N₂O₃S₂ | | Carbonyl bis(imidosulfuryl fluoride) | | | | 25523-80-2 |
| l-g | 7.5069 | 2159 | 0 | 316/331 | 316/331 D | | 79-dykrep |
| 50 | CF₄OS | | Trifluoromethane sulfinyl fluoride | | | | 812-12-4 |
| l-g | 7.44842 | 1772.202 | 54.961 | 215/272 | 215/272 C | 270.65/101.325 | 68-ratshr |
| 51 | CF₄O₂S | | Trifluoromethane sulfonyl fluoride | | | | 335-05-7 |
| l-g | 6.861 | 1221 | 0 | 226/249 | 225/252 C | 251.48/101.325 | 56-grahas Note 2 |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|-----------|--|------------|---|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 52 | CF₄O₅S₂ | | Anhydride fluorosulfonic acid and trifluoromethane sulfonic acid | | | | 21595-44-8 |
| l-g | 7.043 | 1721 | 0 | 308/338 | 306/342 C | 341.65/101.325 | 68-nof Note 10 |
| 53 | CF₅OPS | | Phosphorothionic difluoride, S-trifluoromethyl ester | | | | 52752-66-6 |
| l-g | 6.0269 | 1207.4 | 0 | 293/353 | 293/353 D | | 84-dykrep |
| 54 | CF₆N₂S₂ | | N,N-(Difluoromethylene)-bis(S,S-difluorosulfilimine) | | | | 17686-45-2 |
| l-g | 7.206 | 1880 | 0 | 230/313 | 230/313 D | | 79-dykrep |
| 55 | CF₆PS | | Difluoro(trifluoro-methylthio)phosphine | | | | 52752-65-5 |
| l-g | 6.2109 | 1164.2 | 0 | 293/353 | 293/353 D | | 84-dykrep |
| 56 | CF₈OS | | Pentafluoro(trifluoro-methoxy)sulfur | | | | 1873-23-0 |
| l-g | 6.16544 | 951.564 | -33.459 | 217/262 | 214/263 C | 262.22/101.325 | 64-duncad |
| 57 | CF₈S | | Pentafluoro(trifluoro-methyl)sulfur | | | | 373-80-8 |
| l-g | 6.00208 | 862.572 | -36.932 | 205/262 | 204/265 B | 252.77/101.325 | 50-silcad |
| 58 | CF₁₀O₅S₂ | | [mi-[Carbonodiper-oxoato(2-)]]decafluoro disulfur | | | | 60672-59-5 |
| l-g | 7.214 | 1988.4 | 0 | 228/382 | 227/382 C | 381.78/101.325 | 76-hopdes Note 10 |
| 59 | COS | | Carbonyl sulfide | | | | 463-58-1 |
| l-g | 6.02168 | 801.563 | -23.427 | 161/284 | 161/284 B | 223.02/101.325 | 37-kemgia |
| l-g | 6.57648 | 1116.767 | 23.568 | 284/379 | 284/379 B | 336.75/3000 | 79-robsen 79-robsen |
| 60 | CS₂ | | Carbon disulfide | | | | 75-15-0 |
| l-g | 6.05183 | 1160.637 | -32.498 | 255/354 | 255/354 B | 319.35/101.325 | 72-bouaim |
| l-g | 6.68755 | 1605.397 | 24.117 | 354/552 | 354/552 C | 475.94/3000 | 62-wadsmi 68-sesvis |
| 61 | CHCl₂FO₃S | | Fluorosulfuric acid, dichloromethyl ester | | | | 42016-50-2 |
| l-g | 7.125 | 1890 | 0 | 275/293 | 270/294 D | 294.12/5 | 74-cafsic Note 2 |
| 62 | CHF₃O₃S | | Trifluoromethane-sulfonic acid | | | | 1493-13-6 |
| l-g | 7.73233 | 2492.152 | 0 | 354/435 | 316/436 D | 435.19/101.325 | 54-haskid Note 13 |
| 63 | CHF₃S | | Trifluoromethanethiol | | | | 1493-15-8 |
| l-g | 6.25501 | 920.653 | -18.510 | 168/236 | 165/236 B | 235.17/101.325 | 60-dinpac |
| 64 | CHF₇S | | (Difluoromethyl)-sulfur pentafluoride | | | | 420-67-7 |
| l-g | 6.02840 | 936.728 | -45.453 | 222/292 | 221/294 B | 278.31/101.325 | 50-silcad |
| 65 | CHNS | | Hydrogen thiocyanate | | | | 463-56-9 |
| cr-g | 1.9972 | 149.09 | -88.35 | 151/163 | 149/163 C | | 79-dykrep |
| l-g | -0.0328 | 0.68 | -185.7 | 163/176 | 163/180 D | | 79-dykrep |
| 66 | CH₂F₃NS | | 1,1,1-Trifluoromethane-sulfenamide | | | | 1512-33-0 |
| l-g | 7.585 | 1783 | 0 | 218/291 | 218/291 D | | 84-dykrep |
| 67 | CH₃F₂NS | | Methylimidosulfurous difluoride | | | | 758-20-3 |
| l-g | 7.1777 | 1498.46 | 0 | 194/258 | 194/258 D | | 84-dykrep |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T_b</i> [K]/ <i>P_b</i> [kPa] | Ref. Note |
|-----------|--|----------------------------|--|------------------------|----------------------|--|------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 68 | CH₃F₂OPS | | Difluorothiophosphoric acid, <i>S</i>-methyl ester | | | | 25237-37-0 |
| l-g | 5.90079 | 1107.49 | −43.936 | 236/298 | 226/308 C | | 84-dykrep |
| 69 | CH₃F₂OPS | | Phosphorothionic difluoride, <i>S</i>-trifluoromethyl ester | | | | 900001-60-7 |
| l-g | 5.90079 | 1107.49 | −43.94 | 236/298 | 226/308 C | | 84-dykrep |
| 70 | CH₃F₂PS₂ | | Phosphorodithionic difluoride, methyl ester | | | | 21348-13-0 |
| l-g | 7.28734 | 1857.07 | −12.22 | 253/298 | 243/308 C | | 84-dykrep |
| 71 | CH₃F₄NP₂S₂ | | <i>n,N</i>-Bis(difluorothio-phosphoryl)methyl-amine | | | | 25741-62-2 |
| l-g | 7.11581 | 2092.12 | 4.89 | 273/305 | 273/305 D | | 84-dykrep |
| 72 | CH₃NOS | | <i>N</i>-Sulfinylmethanamine | | | | 4291-05-8 |
| l-g | 7.04991 | 1659.95 | 0 | 252/277 | 248/283 C | | 87-trcsp |
| 73 | CH₄F₂NPS | | <i>N</i>-Methylphosphor-amidothionic acid | | | | 31411-30-0 |
| l-g | 9.46303 | 3721.23 | 100.46 | 273/325 | 273/325 C | | 84-dykrep |
| 74 | CH₄O₃S | | Methanesulfonic acid | | | | 75-75-2 |
| l-g | 8.896 | 3861 | 0 | 395/440 | 395/440 D | 434.01/1 | 87-stemal Note 2 |
| 75 | CH₄S | | Methanethiol | | | | 74-93-1 |
| l-g | 6.15653 | 1015.55 | −34.444 | 208/298 | 198/308 B | 279.11/101.325 | 66-trenh |
| 76 | CH₆GeS | | (Methylthio)germane | | | | 16643-16-6 |
| l-g | 6.35225 | 1556.15 | 0 | 223/291 | 223/295 C | | 84-dykrep |
| 77 | C₂BrF₉S | | (1-Bromo-1,2,2-tetrafluoroethyl)-pentafluoro sulfur | | | | 63011-81-4 |
| l-g | 6.8569 | 1603 | 0 | 294/330 | 294/331 C | 330.43/101.325 | 73-noffox |
| 78 | C₂ClF₃O₄S | | Anhydride difluorochloroacetic acid and fluorosulfuric acid, Chlorodifluoroacetyl fluorosulfate | | | | 6069-32-5 |
| l-g | 6.42722 | 1293.436 | −59.036 | 265/351 | 264/353 C | 351.57/101.325 | 66-descad |
| 79 | C₂ClF₅OS | | Pentafluoroethane-sulfinyl chloride | | | | 39937-08-1 |
| l-g | 7.0989 | 1707.4 | 0 | 273/336 | 273/338 C | 335.23/101.325 | 73-demshr Note 10 |
| 80 | C₂ClF₅O₆S₂ | | 1-Chloro-1,2,2-trifluoro-1,2-ethanediol <i>bis</i>(fluorosulfate) | | | | 1957-17-1 |
| l-g | 4.19995 | 473.738 | −189.277 | 308/405 | 308/407 D | 405.18/101.325 | 64-ratshr |
| 81 | C₂ClF₉S | | (2-Chloro-1,1,2,2-tetrafluoroethyl)-pentafluoro sulfur | | | | 646-63-9 |
| l-g | 6.6189 | 1479 | 0 | 160/321 | 160/321 C | 320.60/101.325 | 61-casray Note 10 |
| 82 | C₂ClF₉S | | Chlorotetrafluoro-(pentafluoroethyl)-sulfur | | | | 42769-85-7 |
| l-g | 6.625 | 1497 | 0 | L | C | 324.08/101.325 | 73-abeshr-1 Note 10 |
| 83 | C₂Cl₂F₃NOS | | <i>S,S</i>-Dichloro-<i>N</i>-(trifluoroacetyl)-sulfilimine | | | | 24433-67-8 |
| l-g | 7.6579 | 2309 | 0 | 306/333 | 306/339 D | | 79-dykrep |
| 84 | C₂Cl₂F₃NO₂S | | (Trifluoromethyl)-sulfonylcarbonimidic dichloride | | | | 51587-33-8 |
| l-g | 7.02514 | 1878.75 | −31.617 | 312/405 | 302/415 C | | 84-dykrep |
| 85 | C₂Cl₂F₃NS | | <i>S,S</i>-Dichloro-<i>N</i>-(pentafluoroethyl)-sulfilimine | | | | 10564-48-4 |
| l-g | 7.1559 | 1956 | 0 | 297/375 | 297/375 D | | 79-dykrep |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|--|------------|--|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 86 | C₂Cl₄F₆OS | | Pentafluoro(1,1,2,2-tetrachloro-2-fluoroethoxy) sulfur | | | | 762-90-3 |
| l-g | 5.71413 | 1229.937 | -84.723 | 314/417 | 312/419 C | 416.38/101.325 | 98-trchc Note 10 |
| 87 | C₂F₃NOS | | Trifluoromethane-sulphenyl isocyanate | | | | 691-03-2 |
| l-g | 6.8659 | 1458 | 0 | 231/293 | 231/293 D | | 87-trcsp |
| 88 | C₂F₃NO₂S | | 2,2,2-Trifluoro-N-sulfinylacetamide | | | | 26454-68-2 |
| l-g | 7.46314 | 1902.73 | 0 | 267/302 | 267/302 D | | 84-dykrep |
| 89 | C₂F₃NO₂S₂ | | Trifluoromethane-sulfonyl isothiocyanate | | | | 51587-30-5 |
| l-g | 6.7678 | 1655.07 | -37.606 | 297/385 | 287/395 C | | 84-dykrep |
| 90 | C₂F₃NO₃S | | Trifluoromethane-sulfonyl isocyanate | | | | 30227-06-6 |
| l-g | 6.84387 | 1511.12 | -33.004 | 275/345 | 265/355 C | | 84-dykrep |
| 91 | C₂F₃NS | | Trifluoromethyl thiocyanate | | | | 690-24-4 |
| l-g | 7.5199 | 1704 | 0 | 226/294 | 206/294 D | | 87-trcsp |
| 92 | C₂F₄N₂O₆S₂ | | 1,2-Bis(fluoroformyl)-1,2-bis(fluorosulfonyl) hydrazine | | | | 19252-50-7 |
| l-g | 8.77183 | 2599.06 | 0 | 273/296 | 269/302 D | | 84-dykrep |
| 93 | C₂F₄O₂S | | (Trifluoroethylene) sulfonyl fluoride | | | | 684-10-6 |
| l-g | 6.3527 | 1412 | 0 | 270/313 | 270/329 D | 324.82/101.325 | 66-banhas Note 16 |
| 94 | C₂F₄O₄S | | Trifluoroacetyl fluorosulfate | | | | 5762-53-8 |
| l-g | 7.80163 | 1949.148 | 17.143 | 249/320 | 249/323 D | 319.15/101.325 | 66-delshr |
| 95 | C₂F₄S₂ | | 2,2,4,4-Tetrafluoro-1,3-dithietane | | | | 1717-50-6 |
| l-g | 6.765 | 1524 | 0 | L | C | 320.22/101.325 | 73-abeshr-0 Note 10 |
| 96 | C₂F₅NOS | | 1,1,1-Trifluoro-N-(fluoroformyl)-methanesulfinimidyl fluoride | | | | 28103-61-9 |
| l-g | 7.8449 | 2033 | 0 | 276/323 | 276/323 D | | 84-dykrep |
| 97 | C₂F₅NOS | | 1,1,2,2,2-Pentafluoro-N-sulfinylethanamine | | | | 10564-50-8 |
| l-g | 6.7679 | 1516 | 0 | 245/303 | 245/303 D | | 79-dykrep |
| 98 | C₂F₅NOS | | S,S-Difluoro-N-(trifluoroacetyl)-sulfilimine | | | | 24433-65-6 |
| l-g | 7.3899 | 1798 | 0 | 240/282 | 240/282 D | | 79-dykrep |
| 99 | C₂F₅NO₄S | | (Fluorosulfonyl)-(trifluoromethoxy)-carbamoyl fluoride | | | | 19252-49-4 |
| l-g | 6.3557 | 1582.3 | 0 | 277/290 | 275/292 D | | 79-dykrep |
| 100 | C₂F₆HgS₂ | | Bis(trifluoromethyl-thio)mercury | | | | 900001-62-9 |
| l-g | 7.95591 | 2760.59 | 10.7 | 353/423 | 353/423 C | | 84-dykrep |
| 101 | C₂F₆OS | | Bis(trifluoromethyl) sulfoxide | | | | 30341-37-8 |
| l-g | 6.73464 | 1458.772 | -1.215 | 248/303 | 245/315 C | 309.69/101.325 | 71-saushr-2 70-law |
| 102 | C₂F₆OS | | Pentafluoroethyl sulfinyl fluoride | | | | 20621-31-2 |
| l-g | 6.25268 | 1096.956 | -35.721 | 235/292 | 234/295 C | 294.01/101.325 | 68-ratshr |
| 103 | C₂F₆OS₂ | | S-Trifluoromethyl-(trifluoromethyl)-thiosulfinate | | | | 63548-94-7 |
| l-g | 6.6711 | 1605.98 | 0 | 293/353 | 288/363 C | | 84-dykrep |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|--|----------------------------|---|------------------------|----------------------|--|------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 104 | C₂F₆OS₂ | | Methanesulfinothioic acid, trifluoro, <i>S</i>-(trifluoromethyl) ester | | | | 63548-54-9 |
| l-g | 6.6711 | 1605.98 | 0 | L | C | 344.23/101.325 | 77-gom Note 10 |
| 105 | C₂F₆O₃S | | Trifluoromethane sulfonic acid, trifluoromethyl ester | | | | 3582-05-6 |
| l-g | 5.74512 | 867.037 | -62.571 | 237/294 | 236/295 C | 294.44/101.325 | 65-nofcad |
| 106 | C₂F₆O₅S | | Peroxsulfuric acid, <i>bis</i>(trifluoromethyl) ester | | | | 41765-14-4 |
| l-g | 6.20096 | 1147.043 | -45.893 | 253/319 | 250/320 B | 319.31/101.325 | 73-hohdes |
| 107 | C₂F₆O₆S₂ | | Tetrafluoroethylene glycol, <i>bis</i>(fluorosulfate) | | | | 1479-53-4 |
| l-g | 5.42608 | 893.094 | -115.191 | 295/377 | 294/378 C | 376.30/101.325 | 61-shrcad |
| 108 | C₂F₆S | | <i>Bis</i>(trifluoromethyl) sulfide | | | | 371-78-8 |
| l-g | 6.941 | 1239.3 | 0 | L | C | 251.11/101.325 | 52-braeme Note 10 |
| 109 | C₂F₆S₂ | | <i>Bis</i>(trifluoromethyl) disulfide | | | | 372-64-5 |
| l-g | 6.890 | 1503.1 | 0 | L | C | 307.75/101.325 | 52-braeme Note 10 |
| 110 | C₂F₇NO₃S | | Tetrafluoro-2-(difluoroamino)ethyl fluorosulfonate | | | | 4188-34-5 |
| l-g | 7 | 1625 | 0 | 276/326 | 276/326 D | | 79-dykrep |
| 111 | C₂F₈OS | | Difluorooxo-<i>bis</i>(trifluoromethyl)-sulfur | | | | 33716-15-3 |
| l-g | 6.55614 | 1542.809 | 39.596 | 240/299 | 238/302 C | 299.45/101.325 | 71-saushr-1 |
| 112 | C₂F₈OS | | Pentafluoro(trifluoro-acetyl) sulfur | | | | 82390-51-0 |
| l-g | 6.823 | 1391.1 | 0 | 162/290 | 162/290 D | 288.77/101.325 | 82-demfox-1 Note 3 |
| 113 | C₂F₈O₃S | | Pentafluoro(trifluoro-ethaneperoxoato) sulfur | | | | 60672-61-9 |
| l-g | 6.5996 | 1465.3 | 0 | L | C | 318.97/101.325 | 76-hopdes Note 10 |
| 114 | C₂F₈S | | Difluorobis(trifluoro-methyl)sulfur | | | | 30341-38-9 |
| l-g | 7.125 | 1507 | 0 | L | C | 294.38/101.325 | 71-saushr-2 Note 10 |
| 115 | C₂F₈S | | Pentafluoro(trifluoro-vinyl) sulfur | | | | 1186-51-2 |
| l-g | 6.485 | 1310 | 0 | L <292 | <293 D | 238.83/10 | 61-casray Note 17 |
| 116 | C₂F₁₀OS | | Pentafluoro(penta-fluorethoxy)sulfur | | | | 900001-56-6 |
| l-g | 5.98633 | 938.91 | -52.27 | 245/287 | 235/297 C | | 84-dykrep |
| 117 | (is omitted) | | | | | | |
| 118 | C₂F₁₀O₂S | | Tetrafluorobis(tri-fluoromethoxy)sulfur | | | | 2004-38-8 |
| l-g | 6.06968 | 1030.534 | -48.768 | 246/302 | 245/304 B | 302.35/101.325 | 64-duncad |
| 119 | C₂F₁₀O₃S | | (Trifluoromethoxy)-[(trifluoromethyl)-dioxy] sulfur tetrafluoride | | | | 41938-43-6 |
| l-g | 6.38218 | 1198.274 | -43.226 | 255.317 | 250/320 B | 317.03/101.325 | 73-hohdes |
| 120 | C₂F₁₀O₃S₂ | | Pentafluoro[1,2,2,2-tetrafluoro-1-[(fluorosulfonyl)oxy]-ethyl sulfur | | | | 68010-32-2 |
| l-g | 7.105 | 1819.0 | 0 | L | C | 356.72/101.325 | 78-demfox Note 10 |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|--|--|---|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 121 | C₂F₁₀S | | trans-Tetrafluoro-bistrifluoromethyl) sulfur | | | | 42179-02-2 |
| l-g | 6.1519 | 1217.6 | 0 | 233/293 | 233/295 C | 293.67/101.325 | 53-cliels Note 2 |
| 122 | C₂F₁₁NS | | [Bis(trifluoromethyl)-amino]sulfur pentafluoride | | | | 13888-13-6 |
| l-g | 6.995 | 1530 | 0 | 233/306 | 233/306 D | | 79-dykrep |
| 123 | C₂F₁₂S₂ | 1,1,1,1,2,2,3,3,3,3,4,4-Dodecafluoro-1,1,1,1,3,3,3,3-octahydro-1,3-dithietane | | | | | 42060-66-2 |
| l-g | 7.415 | 1857 | 0 | L | C | 343.30/101.325 | 73-abeshr-0 Note 10 |
| 124 | C₂F₁₄S₂ | | Octafluorobis(trifluoromethyl)disulfide | | | | 1580-11-6 |
| l-g | 6.945 | 1792 | 0 | L | C | | |
| 125 | C₂HClF₈S | | (1,1,2-Trifluoro-2-chloroethyl)sulfur pentafluoride | | | | 22756-13-4 |
| l-g | 6.801 | 1580 | 0 | 279/323 | 278/330 C | 329.50/101.325 | 47-banhas Note 10 |
| 126 | C₂HCl₃F₂O₃S | | Fluorosulfuric acid, 2-fluoro-1,1,2-trichloroethyl ester | | | | 42087-88-7 |
| l-g | 6.555 | 1911 | 0 | 317/353 | 317/355 C | 344.01/10 | 74-cafsic Note 2 |
| 127 | C₂HCl₄FS | | (Dichloromethyl)-(dichlorofluoro-methyl) sulfide | | | | 900001-57-2 |
| l-g | 7.95151 | 2507.335 | 0 | 322/352 | 321/355 D | 345.72/5 | 59-bobwin Note 13 |
| 128 | (is omitted) | | | | | | |
| 129 | C₂HF₆OPS | | Bis(trifluoromethyl)-phosphinothioic acid | | | | 35814-49-4 |
| l-g | 7.1782 | 2001 | 0 | 283/324 | 283/324 D | | 79-dykrep |
| 130 | C₂HF₆PS₂ | | Phosphinodithioic acid, bis(trifluoromethyl)-ester | | | | 18799-75-2 |
| cr-g | 8.0279 | 2188 | 0 | 273/287 | 269/287 D | | 79-dykrep |
| 131 | C₂HF₆PS₂ | | Thiophosphinous acid, bis(trifluoromethyl)-ester | | | | 1486-19-7 |
| l-g | 6.98036 | 1561.96 | -12.18 | 217/280 | 207/290 C | | 79-dykrep |
| l-g | 5.89755 | 1225.71 | -63.57 | 291/315 | 287/325 C | | 79-dykrep |
| 132 | C₂HF₇S | | Pentafluoro(difluoro-ethenyl) sulfur | | | | 58636-78-5 |
| l-g | 6.815 | 1447.6 | 0 | L | C | 301.00/101.325 | 78-demfox Note 10 |
| 133 | C₂HF₉S | | Pentafluoro(1,2,2,2-tetrafluoroethyl) sulfur | | | | 63011-80-3 |
| l-g | 6.885 | 1463.0 | 0 | L | C | 299.84/101.325 | 78-demfox Note 10 |
| 134 | C₂H₂ClF₃O₂S | | 2,2,2-Trifluoroethane-sulfonic acid, chloride | | | | 1648-99-3 |
| l-g | 7.045 | 1881 | 0 | L | C | 373.27/101.325 | 75-demkov-1 Note 10 |
| 135 | C₂H₂ClF₇S | | Pentafluoro(2-chloro-2,2-difluoroethyl) sulfur | | | | 68010-35-5 |
| l-g | 7.005 | 1719.9 | 0 | L | C | 344.03/101.25 | 78-demfox Note 10 |
| 136 | C₂H₂Cl₄S | | Bis(dichloromethyl) sulfide | | | | 51174-93-7 |
| l-g | 9.27390 | 4255.967 | 123.413 | 355/462 | 353/464 C | 462.15/101.325 | 48-feimoo Note 13 |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|--|----------------------------|--|------------------------|----------------------|--|------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 137 | C₂H₃F₄O₂S | | Fluorosulfurous acid, 2,2,2-trifluoroethyl ester | | | | 75988-14-6 |
| l-g | 7.305 | 1755 | 0 | L | C | 331.18/101.325 | 75-demkov-1 Note 10 |
| 138 | C₂H₂F₈S | | Pentafluoro(2,2,2-trifluoroethyl)sulfur | | | | 65227-29-4 |
| l-g | 6.895 | 1530.8 | 0 | L | C | 313.09/101.325 | 78-demfox Note 10 |
| 139 | C₂H₂F₈S | | Tetrafluoro(fluoro-methyl)(trifluoro-methyl) sulfur | | | | 56919-36-9 |
| l-g | 6.325 | 1425 | 0 | L | C | 329.91/101.325 | 98-trchc Note 10 |
| 140 | C₂H₃ClF₆OS | | Pentafluoro(2-fluoro-2-chloroethoxy) sulfur | | | | 900001-58-3 |
| l-g | 5.89188 | 1114.592 | -75.886 | 287/362 | 286/363 C | 362.70/101.325 | 98-trchc |
| 141 | C₂H₃F₃O₂S | | Trifluoromethane-sulfinic acid, methyl ester | | | | 333-27-7 |
| l-g | 6.795 | 1656 | 0 | L | C | 345.77/101.325 | 71-saushr Note 10 |
| 142 | C₂H₃F₅O₃S | | (Ethaneperoxoato)-pentafluoro sulfur | | | | 60672-60-8 |
| l-g | 7.0303 | 1895.0 | 0 | 217/377 | 216/378 C | 269.55/1 | 76-hopdes Note 13 |
| 143 | C₂H₃NS | | Methyl thiocyanate | | | | 556-64-9 |
| l-g | 6.39459 | 1634.79 | -33.65 | 259/406 | 249/416 B | | 79-dykrep |
| 144 | C₂H₃NS | | Methyl thioisocyanate | | | | 556-61-6 |
| cr-g | 5.883 | 1570.53 | -5.76 | 238/303 | 230/303 C | | 79-dykrep |
| l-g | 6.59162 | 1696.42 | -22.23 | 309/392 | 303/402 C | | 79-dykrep |
| 145 | C₂H₄Cl₂S | | Bis(chloromethyl) sulfide | | | | 3592-44-7 |
| l-g | 7.55091 | 2383.455 | 0 | 320/430 | 320/430 D | 429.82/101.325 | 48-feimoo Note 12 |
| 146 | C₂H₄F₆OS | | Pentafluoro(2-fluoroethoxy)sulfur | | | | 900001-59-4 |
| l-g | 5.75548 | 1023.87 | -89.39 | 290/364 | 280/374 C | | 84-dykrep |
| l-g | 5.84726 | 1060.248 | -84.297 | 290/360 | 290/364 C | 360.29/101.325 | 98-trchc |
| 147 | C₂H₄N₂S₂ | | Dithioamide | | | | 79-40-3 |
| cr-g | 11.8379 | 5515 | 0 | 359/379 | 359/380 D | | 79-dykrep |
| 148 | C₂H₄OS | | Thioacetic acid | | | | 507-09-5 |
| l-g | 7.10541 | 1836.171 | 0 | 307/360 | 306/361 C | 360.06/101.325 | 51-ell Note 13 |
| 149 | C₂H₄O₂S | | Mercaptoacetic acid | | | | 68-11-1 |
| l-g | 8.26259 | 3083.524 | 4.385 | 333/427 | 332.428 C | 420.19/10 | 47-stu |
| 150 | C₂H₄S | | Thiacyclopropane | | | | 420-12-2 |
| l-g | 6.15066 | 1187.297 | -41.608 | 292/361 | 290/363 A | 328.05/101.325 | 52-gutsco |
| 151 | C₂H₅ClO₂S | | Ethanesulfonyl chloride | | | | 594-44-5 |
| l-g | 9.30341 | 2946.550 | 0 | 233/264 | 233/264 C | 251.81/0.004 | 63-quinow Note 15 |
| l-g | 7.15800 | 2187.470 | -22.976 | 349/449 | 349/449 D | 450.59/101.325 | 63-quinow |
| l-g | 6.55092 | 1809.531 | -52.475 | | | | |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|---|----------------------------|--|------------------------|----------------------|--|----------------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 152 | C₂H₅FO₃S | | Ethyl fluorosulfonate | | | | 371-69-7 |
| l-g | 7.2129 | 2010 | 0 | 273/385 | 273/385 C | 278.67/1 | 48-redcha-1 Note 2 |
| 153 | C₂H₆BF₃S | | Dimethyl sulfide-boron trifluoride(1:1)-complex | | | | 353-43-5 |
| l-g | 8.9309 | 2227 | 0 | 273/298 | 270/300 D | | 79-dykrep |
| 154 | C₂H₆F₃NS | | (Dimethylamino)-sulfur trifluoride | | | | 3880-03-3 |
| l-g | 7.4185 | 2115.3 | 0 | 296/327 | 292/333 C | | 79-dykrep |
| 155 | (is omitted) | | | | | | |
| 156 | C₂H₆N₂S | | Dimethyl sulfur diimide | | | | 13849-02-0 |
| l-g | 7.20374 | 1941.7 | 0 | 248/298 | 238/308 C | | 84-dykrep |
| 157 | C₂H₆OS | | 2-Mercapotoethanol | | | | 60-24-2 |
| l-g | 6.54372 | 1616.5 | -74.82 | 293/440 | 283/450 C | | 79-dykrep |
| 158 | C₂H₆OS | | Dimethyl sulfoxide | | | | 67-68-5 |
| l-g | 6.87127 | 2043.753 | -41.819 | 293/377 | 293/377 C | 339.25/1 | 48-dou 72-jakvan 71-phijos |
| l-g | 6.27097 | 1661.142 | -74.818 | 377/483 | 377/483 C | 464.28/101.325 | 87-daujal |
| l-g | 11.84196 | 9321.995 | 483.952 | 483/523 | 483/523 B | 511.47/300 | 87-daujal |
| 159 | C₂H₆O₂S | | Methyl sulfone | | | | 67-71-0 |
| l-g | 6.749 | 2241 | -50.15 | 387/523 | 385/525 D | | 79-dykrep |
| 160 | C₂H₆O₄S | | Dimethyl sulfate | | | | 77-78-1 |
| l-g | 7.28235 | 2437.54 | 0 | 340/470 | 338/472 D | | 87-trcsp |
| 161 | C₂H₆S | | 2-Thiapropane | | | | 75-18-3 |
| l-g | 6.07369 | 1090.76 | -42.351 | 231/331 | 221/341 B | 310.48/101.325 | 66-trcnh |
| 162 | C₂H₆S | | Ethanethiol | | | | 75-08-1 |
| l-g | 6.07696 | 1084.53 | -41.765 | 229/329 | 212/341 A | 308.15/101.325 | 66-trchc |
| 163 | C₂H₆S₂ | | 2,3-Dithiabutane | | | | 624-92-0 |
| l-g | 6.10282 | 1346.34 | -54.287 | 286/408 | 272/423 A | 382.9/101.325 | 64-trchc |
| 164 | C₂H₉BS | | Dimethyl sulfide-borane(3)(1:1) | | | | 13292-87-0 |
| l-g | 8.3449 | 2346 | 0 | 273/314 | 263/324 C | | 79-dykrep |
| 165 | C₃BF₉S₃ | | Tris(trifluoromethyl-thio)borane(3) | | | | 36884-78-3 |
| l-g | 6.44805 | 1772.54 | 0 | 242/298 | 242/298 D | | 84-dykrep |
| 166 | C₃ClF₁₁S | | Chlorotetrafluoro-(heptafluoropropyl) sulfur | | | | 42769-86-8 |
| l-g | 7.055 | 1768 | 0 | L | C | 350.15/101.325 | 73-abeshr-1 Note 10 |
| 167 | C₃Cl₂F₇NS | | <i>S,S</i>-Dichloro-<i>N</i>-[tetrafluoro-1-(trifluoromethyl)-ethylsulfilimine | | | | 26454-66-0 |
| cr-g | 7.26193 | 2055.27 | 0 | 313/347 | 307/348 C | | 84-dykrep |
| 168 | C₃F₆O₄S | | Anhydride of pentafluoropropionic acid and fluorosulfuric acid | | | | 51689-98-6 |
| l-g | 5.85971 | 969.967 | -82.948 | 252/335 | 242/345 C | | 84-dykrep |
| 169 | C₃F₆O₇S₂ | | Hydroacrylic acid, tetrafluoroanhydride with fluorosulfuric acid, fluorosulfate | | | | 6378-48-9 |
| l-g | 6.25917 | 1325.941 | -91.556 | 308/403 | 306/405 C | 403.29/101.325 | 66-descad |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|--|---|--|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 170 | C₃F₇NOS | | 1,1,1,2,3,3,3-Heptafluoro-N-sulfinyl-2-propanamine | | | | 26454-67-1 |
| l-g | 7.3341 | 1781.09 | 0 | 252/280 | 252/280 D | | 84-dykrep |
| 171 | C₃F₈OS | | (Trifluoromethyl)-(pentafluoroethyl) sulfoxide | | | | 33622-17-2 |
| l-g | 6.785 | 1483 | 0 | L | C | 310.30/101.325 | 71-saushr-2 Note 10 |
| 172 | C₃F₈S | | (Trifluoromethyl)-(pentafluoroethyl) sulfide | | | | 33547-10-3 |
| l-g | 6.405 | 1228 | 0 | L | C | 279.14/101.325 | 71-saushr-2 Note 10 |
| 173 | C₃F₉NO₂S₃ | | 1,1,1-trifluoro-N,N-bis[(trifluoromethyl)-thio]Methanesulfon-amide | | | | 29749-02-8 |
| l-g | 6.90338 | 1799.36 | -33.296 | 288/403 | 284/409 C | | 84-dykrep |
| 174 | C₃F₉PS₂ | | Bis(trifluoromethyl) (trifluoromethyl)dithiophosphite | | | | 36121-49-0 |
| l-g | 7.5279 | 1980 | 0 | 273/296 | 269/302 C | | 84-dykrep |
| 175 | C₃F₁₀OS | | Difluorooxo(trifluoromethyl)(pentafluoro-ethyl)sulfur | | | | 33564-24-8 |
| l-g | 6.95821 | 1598.81 | 0 | 291/324 | 289/330 D | | 84-dykrep |
| 176 | C₃F₁₀O₃S | | Pentafluoro(penta-fluoropropaneper-oxoato) sulfur | | | | 60672-62-0 |
| l-g | 7.4035 | 1798.4 | 0 | L >212 | C | 333.17/101.325 | 76-hopdes Note 10 |
| 177 | C₃F₁₀S | | [2,2-Difluoro-1-(trifluoromethyl)-ethenyl]pentafluoro sulfur | | | | 68010-33-3 |
| l-g | 6.885 | 1561.5 | 0 | L | C | 320.03/101.325 | 78-demfox Note 10 |
| 178 | C₃F₁₀S | | Difluoro(pentafluoro-ethyl)(trifluoromethyl) sulfur | | | | 31222-06-7 |
| l-g | 6.815 | 1525 | 0 | L | C | 317.10/101.325 | 71-saushr-2 Note 10 |
| 179 | C₃F₁₂O₃S₂ | Pentafluoro(2,2,2-trifluoro-1-[(fluorosulfonyl)oxy]-1-(trifluoromethyl)ethyl] sulfur | | | | | 68010-30-0 |
| l-g | 7.145 | 1942.5 | 0 | L | C | 377.97/101.325 | 78-demfox Note 10 |
| 180 | C₃HCIF₆O₂S | | Chlorosulfurous acid, 2,2,2-trifluoro-1-(trifluoromethyl) ethyl ester | | | | 57169-81-0 |
| l-g | 7.185 | 1918 | 0 | L | C | 370.32/101.325 | 75-demkov-1 Note 10 |
| 181 | C₃HCIF₁₀S | | [1-(Chlorodifluoromethyl)-2,2,2-trifluoroethyl] pentafluoro sulfur | | | | 68010-36-6 |
| l-g | 6.635 | 1628.5 | 0 | L | C | 351.78/101.325 | 78-demfox Note 10 |
| 182 | C₃HF₇O₂S | | Fluorosulfurous acid, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ester | | | | 52225-56-6 |
| l-g | 7.335 | 1766 | 0 | L | C | 331.38/101.325 | 75-demkov-1 Note 10 |
| 183 | C₃HF₁₁S | | Pentafluoro[2,2,2-trifluoro-1-(trifluoromethyl)ethyl] sulfur | | | | 68010-34-4 |
| l-g | 6.835 | 1571.5 | 0 | L | C | 325.41/101.325 | 78-demfox Note 10 |
| 184 | C₃H₂FNOS | | Fluoroacetyliso-thiocyanate | | | | 459-71-2 |
| l-g | 8.1502 | 2576.8 | 0 | 273/353 | 263/363 C | | 79-dykrep |
| 185 | C₃H₂F₆N₂S | | 2,2,2-Trifluoro-N-[(trifluoromethyl)thiol]ethanimidamide | | | | 62067-09-8 |
| l-g | 7.145 | 2080 | 0 | 322/390 | 322/390 D | | 84-dykrep |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|--|----------------------------|--|------------------------|----------------------|--|----------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 186 | C₃H₂F₆O₂S | | Trifluoromethane-sulfinic acid, 2,2,2-trifluoroethyl ester | | | | 30957-44-9 |
| l-g | 7.325 | 1931 | 0 | L | C | 363.02/101.325 | 71-saushr Note 10 |
| 187 | C₃H₂F₈N₂S | | <i>S,S</i>-Difluoro-<i>N</i>-[1-amino-2,2,2-trifluoro-1-(trifluoromethyl)ethyl] | | | | 2433-66-1 |
| l-g | 7.4609 | 2023 | 0 | 295/313 | 295/317 D | | 79-dykrep |
| 188 | (is omitted) | | | | | | |
| 189 | C₃H₂F₁₄S₂ | | Octafluoromethylene <i>bis</i>(trifluoromethyl) disulfur | | | | 56919-35-8 |
| l-g | 6.365 | 1639 | 0 | L | C | 375.98/101.325 | 98-trchc Note 10 |
| 190 | C₃H₃F₃O₂S | | Trifluoromethane-sulfinic acid, ethyl ester | | | | 30957-43-8 |
| l-g | | 1893 | 0 | L | D | 369.78/101.325 | 71-saushr Note 10 |
| 191 | C₃H₃F₆PS₂ | | Methyl <i>bis</i>(trifluoro-methyl)phosphino-dithioate | | | | 18799-79-6 |
| l-g | 7.43103 | 2168.9 | 0 | 273/344 | 273/344 D | | 79-dykrep |
| 192 | C₃H₃NS | | Thiazole | | | | 288-47-1 |
| l-g | 6.26691 | 1425.35 | −56.895 | 336/391 | 324/405 A | | 73-czas |
| 193 | C₃H₄ClF₃O₂S | | Trifluoromethane-sulfinic acid, trifluoro-2-chloroethyl ester | | | | 61915-99-9 |
| l-g | 6.92 | 2117 | 0 | 320/403 | 320/403 D | 357.60/10 | 77-burshr Note 2 |
| 194 | C₃H₄S₃ | | Trithiocarbonic acid, cyclic ethylene ester | | | | 822-38-8 |
| l-g | 4.56109 | 1407.842 | −128.118 | 294/303 | 292/305 B | 295.00/0.001 | 67-geisch-1 |
| 195 | C₃H₅F₃OS | | [(Trifluoromethyl)-sulfinyl]ethane | | | | 56919-38-1 |
| l-g | 4.865 | 1198 | 0 | L | D | 418.99/101.325 | 98-trchc Note 11 |
| 196 | C₃H₅F₃S₂ | | Ethyl(trifluoromethyl) disulfide | | | | 691-05-4 |
| l-g | 6.975 | 1766 | 0 | 253/303 | 253/303 C | 253.19/1 | 60-emenab Note 10 |
| 197 | C₃H₅F₇S | | Ethyltetrafluoro (trifluoromethyl) sulfur | | | | 56919-37-0 |
| l-g | 6.745 | 1630 | 0 | L | D | 343.93/101.325 | 98-trchc Note 11 |
| 198 | C₃H₅NS | | Ethyl isothiocyanate | | | | 542-85-8 |
| l-g | 6.23087 | 1567.47 | −38.991 | 283/323 | 273/333 B | | 73-czas |
| 199 | C₃H₅NS | | Ethyl thiocyanate | | | | 542-90-5 |
| l-g | 6.258 | 1439.9 | −78.36 | 358/422 | 348/432 C | | 79-dykrep |
| 200 | C₃H₆F₃NS | | Dimethyl(trifluoro-methylthio)amine | | | | 62067-13-4 |
| l-g | 6.03096 | 1130.84 | −47.58 | 273/329 | 266/338 C | | 79-dykrep |
| 201 | C₃H₆S | | Methylthiirane | | | | 1072-43-1 |
| l-g | 6.17838 | 1249.3 | −48.15 | 272/423 | 262/433 C | 347.55/101.325 | 79-dykrep |
| 202 | C₃H₆S | | Thiacyclobutane | | | | 287-27-4 |
| l-g | 6.14157 | 1321.33 | −48.637 | 275/393 | 265/403 B | 368.12/101.325 | 66-trchc |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|---|------------|---|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 203 | C₃H₆S₃ | | 1,3,5-Trithiane | | | | 291-21-4 |
| cr-g | 5.92466 | 2243.285 | -77.011 | 332/359 | 330/362 D | 360.09/0.01 | 83-dewvan |
| 204 | C₃H₇ClO₂S | | 1-Propanesulfonyl chloride | | | | 10147-36-1 |
| l-g | 9.63827 | 3145.025 | 0 | 243/274 | 243/274 C | 261.30/0.004 | 63-quinow Note 15 |
| l-g | 7.33984 | 2323.077 | -22.456 | 273/362 | 273/362 D | 338.96/1 | 63-quinow |
| l-g | 6.74971 | 1939.610 | -51.743 | 362/464 | 362/464 D | 460.60/101.325 | 63-quinow |
| 205 | C₃H₈OS₂ | | 2,3-Dimercaptopropanol | | | | 59-52-9 |
| l-g | 8.45143 | 3196.8 | 0 | 353/413 | 343/423 C | | 79-dykrep |
| 206 | C₃H₈S | | 1-Propanethiol | | | | 107-03-9 |
| l-g | 6.05336 | 1183.31 | -48.526 | 254/364 | 244/374 A | 340.87/101.325 | 66-trchc |
| 207 | C₃H₈S | | 2-Propanethiol | | | | 75-33-2 |
| l-g | 6.00224 | 1113.9 | -46.993 | 242/348 | 232/358 B | 325.71/101.325 | 66-trchc |
| 208 | C₃H₈S | | 2-Thiabutane | | | | 624-89-5 |
| l-g | 6.06339 | 1182.56 | -48.366 | 253/363 | 240/377 A | 339.8/101.325 | 66-trchc |
| 209 | C₃H₈S₂ | | 1,3-Propanedithiol | | | | 109-80-8 |
| l-g | 4.87743 | 835.830 | -154.988 | 338/446 | 336/448 C | 446.04/101.325 | 43-halrei Note 13 |
| 210 | C₃H₉BS | | Dimethyl(methylthio)borane(3) | | | | 19163-05-4 |
| l-g | 6.8019 | 1651 | 0 | 227/304 | 227/304 D | | 79-dykrep |
| 211 | C₃H₉BS₂ | | Methylbis(methylthio)borane(3) | | | | 19163-08-7 |
| l-g | 6.0615 | 1468.5 | -65.05 | 300/373 | 290/383 C | | 79-dykrep |
| 212 | C₃H₉BS₃ | | Tris(methylthio)-borane(3) | | | | 997-49-9 |
| l-g | 6.774 | 2345.1 | 0 | 325/462 | 315/472 C | | 79-dykrep |
| 213 | C₃H₉NO₃S | | N,N-Dimethyl-N-sulfomethaninium hydroxide | | | | 63147-26-2 |
| cr-g | 10.4009 | 3165 | 0 | 292/349 | 292/349 D | | 79-dykrep |
| 214 | C₃S₂ | | Carbon subsulfide | | | | 627-34-9 |
| l-g | 6.67521 | 2009.093 | -21.080 | 287/404 | 285/405 C | 375.09/10 | 47-stu |
| 215 | C₄ClF₉S | | 1,1,2,2,3,3,4,4,4-Nonafluorobutane sulfenyl chloride | | | | 42769-81-3 |
| l-g | 7.015 | 1783 | 0 | L | C | 355.94/101.25 | 73-abeshr-1 Note 10 |
| 216 | C₄ClF₁₂S | | Chlorotetrafluoro-(nonafluorobutyl) sulfur | | | | 42769-87-9 |
| l-g | 7.285 | 1940 | 0 | L | D | 367.43/101.325 | 73-abeshr-1 Note 11 |
| 217 | C₄F₇NO₃S | | 3,3,3-Trifluoro-2-(trifluoromethyl)-lactonitrile fluorosulfate | | | | 26404-53-5 |
| l-g | 6.3609 | 1629 | 0 | 262/320 | 262/320 D | | 79-dykrep |
| 218 | C₄F₈OS | | Octafluorotetrahydro-1-thiophene oxide | | | | 42060-62-8 |
| l-g | 7.555 | 1939 | 0 | L | >316 C | 349.41/101.325 | 73-abeshr-0 Note 10 |
| 219 | C₄F₈O₄S | | Anhydride of heptafluorobutyric acid and fluorosulfuric acid | | | | 6069-35-8 |
| l-g | 7.34041 | 1735.504 | -27.173 | 268/352 | 265/353 C | 352.50/101.325 | 66-descad |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|--|----------------------------|---|------------------------|----------------------|--|---------------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 220 | C₄F₈S | | 2,2,3,3,5,5,6,6-Octafluoro-1,4-dithiane | | | | 710-65-6 |
| l-g | 7.025 | 1724 | 0 | L | C | 343.48/101.325 | 73-abeshr-0 Note 10 |
| 221 | C₄F₈S | | Octafluorotetra-hydrothiophene | | | | 706-76-3 |
| l-g | 6.505 | 1406 | 0 | L | C | 312.50/101.325 | 73-abeshr-0 Note 10 |
| 222 | C₄F₁₀OS | | Bis(pentafluoroethyl) sulfoxide | | | | 33622-25-2 |
| l-g | 7.475 | 1836 | 0 | L | C | 335.69/101.325 | 71-saushr-2 Note 10 |
| 223 | C₄F₁₀O₃S | | Fluorosulfuric acid, nonafluoro(1-methylpropyl) ester | | | | 5762-52-7 |
| l-g | 6.92356 | 1658.185 | -6.190 | 266/341 | 265/350 C | 343.37/101.325 | 66-delsr |
| 224 | C₄F₁₀O₄S | | Fluoroperoxymono-sulfuric acid, 2,2,2-trifluoro-1,1-bis(trifluoromethyl) ethyl ester | | | | 55064-77-2 |
| l-g | 7.5619 | 1965.0 | 0 | L | C | 353.66/101.325 | 75-waldes-1 Note 10 |
| 225 | C₄F₁₀O₆S₂ | | 1,1,1,2,3,4,4,4-Octafluoro-2,3-bis(fluorosulfato) butane | | | | 2261-44-1 |
| l-g | 11.43969 | 5807.410 | 215.816 | 302/378 | 302/378 D | 356.98/20 | 64-ratshr |
| l-g | 2.73172 | 69.757 | -312.919 | 378/411 | 378/411 B | 409.00/101.325 | 64-ratshr |
| 226 | C₄F₁₀S | | (Heptafluoropropyl)-(trifluoromethyl) sulfide | | | | 33547-11-4 |
| l-g | 6.625 | 1439 | 0 | L | D | 311.52/101.325 | 71-saushr-2 Note 11 |
| 227 | C₄F₁₀S | | 1,1,2,2,3,3,4,4,5,5-Decafluor-1,1,2,3,4,5-hexahydrothiophene | | | | 42060-60-6 |
| l-g | 8.265 | 2171 | 0 | L | C | 346.84/101.325 | 73-abeshr-0 Note 10 |
| 228 | C₄F₁₂OS | | Difluorooxobis(penta-fluoroethyl) sulfur | | | | 33564-25-9 |
| l-g | 7.46466 | 1936.715 | 14.092 | 284/341 | 284/344 D | 340.69/101.325 | 71-saushr-1 |
| 229 | C₄F₁₂O₂S | | Bis(trifluoromethyl)-bis(trifluoromethoxy) sulfur | | | | 63465-11-2 |
| l-g | 6.445 | 1532 | 0 | 273.325 | 273/346 C | 345.10/101.325 | 77-kitsr 78-kitsr Note 10 |
| 230 | C₄F₁₂O₃S | | Oxobis(trifluoro-methoxy)bis(trifluoro-methyl) sulfur | | | | 66632-46-0 |
| l-g | 6.725 | 1746 | 0 | 273/335 | 273/370 D | 369.97/101.325 | 78-kitsr Note 10 |
| 231 | C₄F₁₂S | | Difluoro(heptafluoro-propyl)(trifluoro-methyl) sulfur | | | | 31206-31-2 |
| l-g | 7.005 | 1712 | 0 | L | C | 342.45/101.325 | 71-saushr-2 Note 10 |
| 232 | C₄F₁₂S | | Difluorobis(penta-fluoroethyl) sulfur | | | | 33622-15-0 |
| l-g | 6.924 | 1685 | 0 | L | C | 342.60/101.325 | 71-saushr-2 Note 10 |
| 233 | C₄F₁₂S | | Dodecafluoroocta-hydro thiophene | | | | 373-83-1 |
| l-g | 6.915 | 1644 | 0 | L | C | 334.88/101.325 | 73-abeshr-0 Note 10 |
| 234 | C₄F₁₆S₂ | | Hexadecafluoro-octahydro-1,4-dithiane | | | | 4556-31-4 |
| l-g | 7.205 | 2117 | 0 | 323/408 | 323/410 C | 407.17/101.325 | 73-abeshr-0 Note 10 |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|-------------------|---|--|------------|----------------|----------------------|---|---|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 235 l-g | C₄HF₉O₂S 7.705 | Trifluoromethane-sulfinic acid, 2,2,2-trifluoro-1-(trifluoromethyl) ethyl ester 2061 | 0 | L | C | 361.62/101.325 | 52225-50-0 74-majshr Note 10 |
| 236 l-g | C₄H₂Br₂S 5.47693 | 3,4-Dibromothiophene 2024.731 | 34.618 | 333/373 | 331/375 B | 335.07/1 | 3141-26-2 71-eonpom |
| 237 l-g | C₄H₂Cl₂S 5.90415 | 2,5-Dichlorothiophene 1715.291 | −4.717 | 333/373 | 330/375 A | 354.48/10 | 3172-52-9 71-eonpom Note 19 |
| | 6.66109 | 1954.611 | −43.701 | 323/425 | 323/425 C | 358.97/10 | 81-ditsko Note 19 |
| | 6.93338 | 2347.552 | 37.969 | 323/425 | 323/425 D | 357.68/10 | 71-eonpom 81-ditsko Note 19 |
| 238 l-g | C₄H₂F₆OS 7.11880 | Trifluoroacetic acid, S-(1,2,2-trifluoroethyl) ester 1775.640 | 0 | 281/322 | 280/325 D | 290.19/10 | 35709-12-7 71-weegar |
| 239 l-g | C₄H₂N₂O₄S 7.46448 | 2,5-Dinitrothiophene 3081.24 | −2.08 | 388/523 | 378/533 C | | 59434-05-8 79-dykrep |
| 240 l-g | C₄H₂N₂O₄S 7.5099 | 2,4-Dinitrothiophene 3116.1 | 0 | 388/523 | 378/533 C | | 900002-53-1 87-wzvap |
| 241 l-g | C₄H₃BrS 5.58601 | 2-Bromothiophene 1600.130 | 16.770 | 333/373 | 330/378 B | 332.15/10 | 1003-09-4 71-eonpom |
| 242 l-g | C₄H₃BrS 5.54968 | 3-Bromothiophene 1614.225 | 12.142 | 333/373 | 330/378 D | 342.66/10 | 872-31-1 71-eonpom |
| 243 l-g | C₄H₃ClF₆O₂S 7.165 | Chlorosulfonic acid, 1,1-bis(trifluoromethyl) ethyl ester 2071 | 0 | L | D | 401.41/101.325 | 57169-82-1 75-demkov-1 Note 11 |
| 244 l-g | C₄H₃ClS 6.57464 | 2-Chlorothiophene 1825.900 | 2.654 | 333/373 | 330/380 B | 324.88/10 | 96-43-5 71-eonpom Note 19 |
| | 6.61150 | 1792.471 | −11.732 | 320/401 | 318/403 C | 331.16/10 | 81-ditsko Note 19 |
| | 7.40831 | 2439.091 | 52.403 | 313/401 | 310/403 D | 328.21/10 | 71-eonpom 81-ditsko Note 19 |
| 245 l-g | C₄H₃F₅OS 5.00381 | Trifluorothioacetic acid, S-(2,2-difluoroethyl) ester 842.030 | −105.316 | 282/322 | 280/325 C | 315.62/10 | 35709-11-6 71-weegar |
| 246 l-g | C₄H₃F₇O₂S 7.175 | Fluorosulfinic acid 1,1-bis(trifluoromethyl) ethyl ester 1898 | 0 | L | C | 367.17/101.325 | 57169-83-2 75-demkov-1 Note 10 |
| 247 l-g | C₄H₃IS 5.02823 | 2-Iodothiophene 1451.266 | −7.762 | 333/373 | 332/375 A | 368.04/10 | 3437-95-4 71-eonpom |
| 248 l-g | C₄H₃NO₂S 7.79147 | 2-Nitrothiophene 2965.23 | 21.625 | 378/443 | 375/445 B | | 609-40-5 84-pas |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|---|------------|--|----------------|----------------------|---|--------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 249 | C₄H₄Cl₄O₂S | | 3,3,4,4-Tetrachloro tetrahydrothiophene 1,1-dioxide | | | | 3737-41-5 |
| l-g | 10.81778 | 4612.838 | 0 | 303/349 | 303/349 D | 333.83/0.001 | 78-dep |
| 250 | C₄H₄F₄OS | | Trifluorothioacetic acid, S-ethyl ester | | | | 35709-10-5 |
| l-g | 4.67134 | 686.853 | -128.246 | 283/324 | 281/326 C | 315.33/10 | 71-weegar |
| 251 | C₄H₄F₄OS | | Trifluorothioacetic acid, S-(2-fluoroethyl)ester | | | | 35709-10-5 |
| l-g | 4.34949 | 577.263 | -142.945 | 282/322 | 272/332 C | | 84-dykrep |
| 252 | C₄H₄F₆N₂S | | 2,2,2-Trifluoro-N-methyl-N'-[(trifluoromethyl)-ethanimidamide | | | | 62067-10-1 |
| l-g | 6.405 | 1821.3 | 0 | 339/387 | 339/387 D | | 84-dykrep |
| 253 | C₄H₄F₆O₂S | | Trifluoromethane-sulfuric acid, 2,2,2-trifluoro-1-methylethyl ester | | | | 52225-48-6 |
| l-g | 7.135 | 1921 | 0 | L | C | 374.52/101.325 | 74-majshr Note 10 |
| 254 | C₄H₄S | | Thiophene | | | | 110-02-1 |
| l-g | 6.08416 | 1246.02 | -51.8 | 267/381 | 257/391 B | 357.31/101.325 | 53-trchc |
| 255 | C₄H₅F₃OS | | Trifluorothioacetic acid, S-ethyl ester | | | | 383-64-2 |
| l-g | 3.68097 | 369.672 | -162.277 | 282/313 | 281/315 C | 300.16/10 | 71-weegar |
| 256 | C₄H₅NS | | Allyl isothiocyanate | | | | 57-06-7 |
| l-g | 4.25148 | 791.434 | -119.131 | 283/323 | 273/333 B | | 73-czas |
| 257 | C₄H₅NS | | 2-Methylthiazole | | | | 3581-87-1 |
| l-g | 6.16702 | 1407.05 | -63.824 | 354/402 | 344/415 A | | 73-czas |
| 258 | C₄H₅NS | | 4-Methylthiazole | | | | 693-95-8 |
| l-g | 6.186 | 1424 | 0 | 346/408 | 336/418 C | | 84-dykrep |
| 259 | C₄H₆OS | | 2(3H)-Dihydrothiophenone | | | | 1003-10-7 |
| l-g | 5.885 | 1946.3 | 0 | L | D | 314.63/0.5 | 72-geisaw Note 18 |
| 260 | C₄H₆OS | | 3(2H)-Dihydrothiophenone | | | | 1003-04-9 |
| l-g | 7.805 | 2583.2 | 0 | L | D | 318.68/0.5 | 72-geisaw Note 18, 20 |
| 261 | C₄H₆O₂S | | Diacetylsulfide | | | | 3232-39-1 |
| l-g | 8.81486 | 2827.875 | 0 | 325/355 | 323/356 D | 332.15/2 | 59-bohgou 52-cro-2 |
| 262 | C₄H₆S | | Vinylthiacyclopropane 2-Vinylthiirane | | | | 5954-75-6 |
| l-g | 10.69234 | 4465.987 | 139.922 | 273/334 | 271/336 C | 320.85/10 | 66-sidlow |
| 263 | C₄H₆S₃ | | Trithiacarbonic acid, cyclic trimethylene ester | | | | 1748-15-8 |
| cr-g | 11.01515 | 5004.501 | 13.042 | 321/348 | 320/350 B | 344.04/0.001 | 67-geisch-1 |
| 264 | C₄H₇ClS | | 3-Chloro-2-butene-1-thiol | | | | 900002-51-9 |
| l-g | 9.68182 | 3745.252 | 80.838 | 341/397 | 340/400 D | 388.32/50 | 56-kleesa |
| 265 | C₄H₇FOS | | Ethanethioic acid, S-(2-fluoroethyl)ester | | | | 462-31-7 |
| l-g | 7.6273 | 2336.2 | 0 | 273/333 | 263/343 C | | 79-dykrep |
| 266 | C₄H₇FOS | | Thioacetic acid, 2-fluoroethyl ester | | | | 462-31-7 |
| l-g | 7.6273 | 2336.2 | 0 | 273/333 | 273/335 B | 306.29/1 | 48-redcha-1 Note 2 |

| Phase | Antoine constants | | | T-range [K] | Range [K], Rating | T _b [K]/P _b [kPa] | Ref. Note |
|------------|--|------------|--|----------------|----------------------|---|------------------------|
| | A, (n) | B [K], (E) | C [K], (F) | | | | |
| 267 | C₄H₈Cl₂S | | Bis(2-chloroethyl) sulfide, yperite | | | | 505-60-2 |
| cr-g | 18.92855 | 8915.112 | 133.745 | 263/288 | 262/290 B | 272.81/0.001 | 47-balden |
| l-g | 8.02333 | 2738.141 | -20.522 | 263/353 | 262/355 C | 323.97/0.1 | 47-balden |
| 268 | C₄H₈Cl₂S₃ | | Bis(2-chloroethyl)-trisulfide | | | | 19149-77-0 |
| l-g | 8.35519 | 3565.7 | 0 | 273/333 | 273/335 D | 314.02/0.001 | 48-redcha-2 Note 2 |
| 269 | C₄H₈F₂O₄S | | Bis(2-fluoroethyl)-sulfate | | | | 381-46-4 |
| l-g | 8.9366 | 3335.6 | 0 | 273/333 | 273/335 C | 304.99/0.01 | 48-redcha-1 Note 2 |
| 270 | C₄H₈OS | | 1,4-Oxathiane | | | | 15980-15-1 |
| l-g | 5.42527 | 1043.578 | -117.583 | 343/411 | 340/415 B | 397.64/50 | 33-joh |
| 271 | C₄H₈O₂S | | Allylmethyl sulfone | | | | 16215-14-8 |
| l-g | 9.075 | 3563 | 0 | 405/450 | 405/450 D | 441.24/10 | 61-busivi-1 Note 2 |
| 272 | C₄H₈O₂S | | Cyclotetramethylene sulfone | | | | 126-33-0 |
| l-g | 13.65415 | 10272.174 | 345.426 | 303/423 | 303/423 D | 406.89/1 | 79-asccla 80-kar |
| l-g | 6.63596 | 2317.594 | -58.022 | 423/529 | 423/529 C | 558.54/101.325 | 77-mel 69-mor |
| l-g | 7.44817 | 3155.935 | 22.975 | 364/529 | 364/529 C | 400.75/1 | 84-shckap-2 Note 21 |
| 273 | C₄H₈S | | Ethylthiirane | | | | 3195-86-6 |
| l-g | 6.17445 | 1309 | -64.15 | 298/450 | 288/460 C | 378.15/101.325 | 79-dykrep |
| 274 | C₄H₈S | | Isobutylene sulfide | | | | 3772-13-2 |
| l-g | 6.17325 | 1271.1 | -54.15 | 273/473 | 263/483 C | 359.15/101.325 | 79-dykrep |
| 275 | C₄H₈S | | Thiacyclopentane | | | | 110-01-0 |
| l-g | 6.1203 | 1401.94 | -53.543 | 294/420 | 280/435 A | 394.27/101.325 | 66-trchc |
| 276 | C₄H₈S₂ | | 1,3-Dithiane | | | | 505-23-7 |
| cr-g | 10.87123 | 3699.626 | -3.258 | 252/270 | 250/272 B | 269.97/0.001 | 83-dewvan |
| 277 | C₄H₈S₂ | | 1,4-Dithiane | | | | 505-29-3 |
| cr-g | 10.69904 | 3770.721 | -0.427 | 257/255 | 256/258 B | 275.68/0.001 | 83-dewvan |
| l-g | 4.35802 | 656.048 | -198.778 | 389/437 | 387/440 C | 394.15/10 | 33-joh |
| 278 | C₄H₉ClO₂S | | 1-Butanesulfonyl chloride | | | | 2386-60-9 |
| l-g | 9.17029 | 3148.169 | 0 | 253/284 | 253/284 C | 272.14/0.004 | 63-quinow Note 15 |
| l-g | 7.47685 | 2425.716 | -26.012 | 283/373 | 283/373 D | 350.44/1 | 63-quinow |
| l-g | 6.83354 | 1999.818 | -57.943 | 373/474 | 373/474 D | 472.17/101.325 | 63-quinow |
| 279 | C₄H₉ClS | | Ethyl(2-chloroethyl) sulfide | | | | 693-07-2 |
| l-g | 7.41945 | 2318.8 | 0 | 273/333 | 273/335 D | 312.53/1 | 48-redcha-2 Note 2 |
| 280 | C₄H₁₀BF₃S | | Diethyl sulfide-boron trifluoride | | | | 900000-41-1 |
| l-g | 7.6599 | 1893 | 0 | 273/293 | 273/293 D | | 79-dykrep |
| 281 | C₄H₁₀F₃NOS | | (Diethylamino)-trifluorooxosulfur | | | | 26458-94-6 |
| l-g | 7.63974 | 2587.66 | 0 | 329/354 | 329/356 D | | 84-dykrep |

| Phase | Antoine constants | | | <i>T</i> -range [K] | Range [K], Rating | <i>T</i> _b [K]/ <i>P</i> _b [kPa] | Ref. Note |
|------------|---|----------------------------|----------------------------|------------------------|----------------------|--|------------------------|
| | <i>A</i> , (<i>n</i>) | <i>B</i> [K], (<i>E</i>) | <i>C</i> [K], (<i>F</i>) | | | | |
| 282 | C₄H₁₀F₃NS | | | | | | 38078-09-0 |
| l-g | 7.53514 | 2363.6 | 0 | 318/340 | 314/346 D | | 84-dykrep |
| 283 | C₄H₁₀O₂S | | | | | | 111-48-8 |
| l-g | 2.22498 | 591.930 | –137.433 | 315/558 | 315/560 D | 385.49/1 | 47-stu |
| 284 | C₄H₁₀O₃S | | | | | | 623-81-4 |
| l-g | 7.765 | 2321 | 0 | 280/418 | 280/420 D | 403.00/101.325 | 75-demkov-1 Note 11 |
| 285 | C₄H₁₀O₄S | | | | | | 64-67-5 |
| l-g | 6.75946 | 2040.418 | –52.969 | 320/482 | 320/484 C | 482.19/101.325 | 27-kur 47-stu |
| 286 | C₄H₁₀S | | | | | | 109-79-5 |
| l-g | 6.05244 | 1281.02 | –55.05 | 278/396 | 268/406 B | 371.61/101.325 | 66-trchc |
| 287 | C₄H₁₀S | | | | | | 513-53-1 |
| l-g | 6.01188 | 1229.9 | –51.129 | 266/382 | 256/395 B | 358.13/101.325 | 66-trchc |
| 288 | C₄H₁₀S | | | | | | 513-44-0 |
| l-g | 6.01236 | 1237.28 | –52.837 | 269/386 | 259/398 B | 361.64/101.325 | 66-trchc |
| 289 | C₄H₁₀S | | | | | | 75-66-1 |
| l-g | 5.91271 | 1115.56 | –51.836 | 274/361 | 274.3/371 B | 337.37/101.325 | 66-trchc |
| 290 | C₄H₁₀S | | | | | | 1551-21-9 |
| l-g | 6.02686 | 1232.17 | –51.48 | 266/382 | 256/392 B | 357.9/101.325 | 66-trchc |
| 291 | C₄H₁₀S | | | | | | 3877-15-4 |
| l-g | 6.08035 | 1284.31 | –53.49 | 276/393 | 266/403 B | 368.69/101.325 | 66-trchc |
| 292 | C₄H₁₀S | | | | | | 352-93-2 |
| l-g | 6.05326 | 1257.83 | –54.488 | 273/390 | 260/405 A | 365.25/101.325 | 66-trchc |
| 293 | C₄H₁₀S₂ | | | | | | 1191-08-8 |
| l-g | 6.19171 | 1635.502 | –78.042 | 348/469 | 345/470 C | 468.75/101.325 | 43-halrei Note 13 |
| 294 | C₄H₁₀S₂ | | | | | | 110-81-6 |
| l-g | 6.09997 | 1485.97 | –64.192 | 320/455 | 310/465 B | 427.13/101.325 | 64-trchc |
| 295 | C₄H₁₂N₂OS | | | | | | 3768-60-3 |
| l-g | 6.55381 | 2186.98 | 0 | 320/351 | 316/357 C | | 84-dykrep |
| 296 | C₄H₁₂N₂O₂S | | | | | | 3768-63-6 |
| l-g | 8.64261 | 3636.96 | 53.55 | 358/423 | 358/423 D | | 84-dykrep |