

### 3.3 Selenium and Tellurium Containing Organic Compounds, C<sub>1</sub> to C<sub>12</sub>

Phase	Antoine constants			<i>T</i> -range [K]	Range [K], Rating	<i>T<sub>b</sub></i> [K]/ <i>P<sub>b</sub></i> [kPa]	Ref. Note
	<i>A</i> , ( <i>n</i> )	<i>B</i> [K], ( <i>E</i> )	<i>C</i> [K], ( <i>F</i> )				
<b>1</b>	<b>D<sub>2</sub>Se</b>		<b>Hydrogen selenide-D2</b>				<b>13536-95-3</b>
l-g	6.0909	787.67	−38.15	202/246	192/256 B		59-trcnh
<b>2</b>	<b>F<sub>2</sub>OSe</b>		<b>Seleninyl difluoride</b>				<b>7783-43-9</b>
l-g	6.545	1380	−95.15	316/420	310/426 C	399.15/101.325	59-trcnh
<b>3</b>	<b>F<sub>4</sub>Se</b>		<b>Selenium tetrafluoride</b>				<b>13465-66-2</b>
l-g	7.0136	1603	−58.15	297/398	297/398 D	378.15/101.325	59-trcnh
<b>4</b>	<b>F<sub>6</sub>Se</b>		<b>Selenium hexafluoride</b>				<b>7783-79-1</b>
cr-g	7.5103	1121.4	−23.15	179/238	175/245 C	226.85/101.325	59-trcnh
<b>5</b>	<b>H<sub>2</sub>Se</b>		<b>Hydrogen selenide</b>				<b>7783-07-5</b>
cr-g	6.7603	927.6	−33.15	177/205	175/207.4 C	231.15/101.325	59-trcnh
<b>6</b>	<b>Se</b>		<b>Selenium</b>				<b>7782-49-2</b>
l-g	6.7565	4213	−71.15	724/1017	720/1025 C		59-trcnh
<b>7</b>	<b>Cl<sub>2</sub>OSe</b>		<b>Seleninyl dichloride</b>				<b>7791-23-3</b>
l-g	5.3822	970.87	−161.15	352/476	346/484 C	448.65/101.325	59-trcnh
<b>8</b>	<b>Cl<sub>4</sub>Se</b>		<b>Selenium tetrachloride</b>				<b>10026-03-6</b>
cr-g	9.3758	3068.8	−48.15	386/482	380/490 C	464.55/101.325	59-trcnh
<b>9</b>	<b>COSe</b>		<b>Carbonyl selenide</b>				<b>1603-84-5</b>
l-g	6.67195	1190.239	3.579	221/252	220/254 B	251.49/101.325	48-gleris
<b>10</b>	<b>CSe<sub>2</sub></b>		<b>Carbon diselenide</b>				<b>506-80-9</b>
cr-g	8.92273	2420.164	0	219/230	219/230 B	221.57/0.01	66-gatdra Note 14
l-g	5.90634	1423.744	−40.394	230/290	230/290 B	255.94/0.2	66-gatdra
l-g	5.49711	1226.782	−58.302	290/337	290/337 A	313.98/5	66-gatdra
<b>11</b>	<b>CSSe</b>		<b>Carbonyl selenide sulfide</b>				<b>5951-19-9</b>
l-g	5.98054	1257.997	−42.357	226/359	224/361 B	358.85/101.325	47-stu
<b>12</b>	<b>C<sub>2</sub>BrF<sub>5</sub>Se</b>		<b>(Pentafluoroethane) selenyl bromide</b>				<b>6123-59-7</b>
l-g	7.385	1800	0	242/293	242/293 D	281.91/10	65-welreg Note 11
<b>13</b>	<b>C<sub>2</sub>ClF<sub>5</sub>Se</b>		<b>(Pentafluoroethane) selenyl chloride</b>				<b>6123-50-8</b>
l-g	6.905	1580	0	215/289	215/289 C	267.57/10	65-welreg Note 10
<b>14</b>	<b>C<sub>2</sub>H<sub>3</sub>F<sub>3</sub>Se</b>		<b>Methyl(trifluoro-methyl) selenide</b>				<b>1544-45-2</b>
l-g	6.785	1448	0	209/294	209/295 C	213.41/1	63-emewel Note 10
<b>15</b>	<b>C<sub>2</sub>H<sub>6</sub>Se</b>		<b>Dimethyl selenide</b>				<b>593-79-3</b>
l-g	5.42474	1315.980	−25.899	280/318	280/320 C	304.37/5	56-grasto, 75- baegub-1

Phase	Antoine constants			<i>T</i> -range [K]	Range [K], Rating	<i>T<sub>b</sub></i> [K]/ <i>P<sub>b</sub></i> [kPa]	Ref. Note
	<i>A</i> , ( <i>n</i> )	<i>B</i> [K], ( <i>E</i> )	<i>C</i> [K], ( <i>F</i> )				
<b>16</b>	<b>C<sub>3</sub>BrF<sub>7</sub>Se</b>						<b>662-44-2</b>
l-g	6.977	1829	0	251/298	250/305 C	262.15/1	63-emewel Note 10
<b>17</b>	<b>C<sub>3</sub>ClF<sub>7</sub>Se</b>						<b>662-46-4</b>
l-g	7.005	1742	0	223/289	220/293 C	248.68/1	63-emewel Note 10
<b>18</b>	<b>C<sub>3</sub>H<sub>2</sub>F<sub>6</sub>Se<sub>2</sub></b>						<b>691-25-8</b>
l-g	6.8709	1850	0	273/359	272/382 C	380.25/101.325	63-emewel Note 10
<b>19</b>	<b>C<sub>3</sub>H<sub>3</sub>F<sub>5</sub>Se</b>						<b>6123-56-4</b>
l-g	7.235	1666	0	234/286	234/286 C	267.20/10	65-welreg Note 10
<b>20</b>	<b>C<sub>3</sub>H<sub>3</sub>F<sub>7</sub>SeSi</b>						<b>1647-59-2</b>
l-g	6.9579	1729	0	233/293	233/293 D	266.79/3	62-ebseme Note 11
<b>21</b>	<b>C<sub>3</sub>H<sub>4</sub>F<sub>5</sub>NSe</b>						<b>6123-53-1</b>
l-g	6.945	1765	0	243/318	243/318 C	296.89/10	65-welreg Note 10
<b>22</b>	<b>C<sub>3</sub>H<sub>3</sub>FOSe</b>						<b>367-52-2</b>
l-g	8.1619	2420.0	0	273/333	273/335 C	296.50/1	48-redcha-1 Note 2
<b>23</b>	<b>C<sub>3</sub>H<sub>3</sub>F<sub>3</sub>Se</b>						<b>690-25-5</b>
l-g	7.015	1650	0	223/254	220/260 C	235.21/1	63-emewel Note 10
<b>24</b>	<b>C<sub>4</sub>F<sub>10</sub>Se</b>						<b>6123-61-1</b>
l-g	7.185	1650	0	232/295	230/300 C	266.77/10	65-welreg Note 10
<b>25</b>	<b>C<sub>4</sub>F<sub>10</sub>Se<sub>2</sub></b>						<b>6123-49-5</b>
l-g	7.775	2090	0	272/318	270/323 C	308.49/10	65-welreg Note 10
<b>26</b>	<b>C<sub>4</sub>HF<sub>10</sub>NSe<sub>2</sub></b>						<b>6123-55-3</b>
l-g	6.825	2000	0	270/322	270/322 D	300.80/1.5	65-welreg Note 11
<b>27</b>	<b>C<sub>4</sub>H<sub>3</sub>F<sub>7</sub>Se</b>						<b>662-45-3</b>
l-g	7.075	1608	0	232/324	232/330 D	264.69/10	63-emewel Note 11
<b>28</b>	<b>C<sub>4</sub>H<sub>4</sub>Se</b>						<b>288-05-1</b>
l-g	8.21410	2423.766	18.235	243/300	241/305 C	304.28/5	51-milpao
cr-g	6.45344	1443.322	-50.895	209/241	208/241 C	221.63/0.01	51-milpao
cr-g	54.21632	27336.877	0	194/207	193/208 D	196.42/0.0001	51-milpao
<b>29</b>	<b>C<sub>4</sub>H<sub>5</sub>F<sub>5</sub>Se</b>						<b>6123-57-5</b>
l-g	7.335	1815	0	241/311	240/315 C	286.50/10	65-welreg Note 10

Phase	Antoine constants			<i>T</i> -range [K]	Range [K], Rating	<i>T</i> <sub>b</sub> [K]/ <i>P</i> <sub>b</sub> [kPa]	Ref. Note
	<i>A</i> , ( <i>n</i> )	<i>B</i> [K], ( <i>E</i> )	<i>C</i> [K], ( <i>F</i> )				
<b>30</b> l-g	<b>C<sub>4</sub>H<sub>6</sub>F<sub>5</sub>NSe</b> 7.195	1820	<b>1,1,2,2,2-Pentafluoro-<i>N,N</i>-dimethylethane selenamide</b> 0	256/320	256/320 C	293.79/10	<b>6123-52-0</b> 65-welreg Note 10
<b>31</b> l-g	<b>C<sub>4</sub>H<sub>8</sub>OSe</b> 5.01274	903.534	<b>1,4-Oxaselenane</b> −143.329	352/429	350.432 C	415.99/50	<b>5368-46-7</b> 33-joh
<b>32</b> l-g	<b>C<sub>4</sub>H<sub>10</sub>Se</b> 6.73740	1666.838	<b>Diethyl selenide</b> −26.653	243/381	242/385 D	378.92/101.325	<b>627-53-2</b> 76-baegub, 47-stu
<b>33</b> l-g	<b>C<sub>5</sub>H<sub>5</sub>F<sub>10</sub>NSe<sub>2</sub></b> 6.965	2000	<b><i>N,N</i>-Bis[(pentafluoroethyl)seleno]methylamine</b> 0	282/324	282/324 C	300.12/2	<b>6123-54-2</b> 65-welreg Note 10
<b>34</b> l-g	<b>C<sub>5</sub>H<sub>5</sub>F<sub>7</sub>Se</b> 7.1319	1880	<b>Ethyl(heptafluoro-propyl) selenide</b> 0	243/333	240/335 C	306.59/10	<b>755-44-2</b> 63-emewel Note 10
<b>35</b> l-g	<b>C<sub>6</sub>F<sub>14</sub>Se</b> 6.835	1803	<b><i>Bis</i>(heptafluoro-propyl) selenide</b> 0	228/343	228/345 C	309.00/10	<b>755-81-7</b> 63-emewel Note 10
<b>36</b> l-g	<b>C<sub>6</sub>F<sub>14</sub>Se<sub>2</sub></b> 6.6609	1967	<b><i>Bis</i>(heptafluoro-propyl)diselenide</b> 0	260/348	260/350 C	347.47/10	<b>755-51-1</b> 63-emewel Note 10
<b>37</b> l-g	<b>C<sub>6</sub>H<sub>6</sub>Se</b> 7.185	2370	<b>Benzene selenol</b> 0	331/458	330/460 D	457.59/101.325	<b>645-96-5</b> 67-mantro Note 2
<b>38</b> l-g	<b>C<sub>7</sub>H<sub>8</sub>Se</b> 7.875	2740	<b>Methyl phenyl selenide</b> 0	273/291	271/293 C	277.47/0.01	<b>4346-64-9</b> 67-mantro Note 12
<b>39</b> cr-g	<b>C<sub>8</sub>H<sub>6</sub>N<sub>2</sub>Se</b> 11.4698	4735.6	<b>4-Phenyl-1,2,3-selenadiazole</b> 0	327/345	323/351 D		<b>25660-64-4</b> 79-dykrep
<b>40</b> l-g	<b>C<sub>8</sub>H<sub>6</sub>N<sub>2</sub>Se</b> 7.5069	2159	<b>Carbonyl <i>bis</i>(imidosulfuryl fluoride)</b> 0	316/331	316/331 D		<b>25523-80-2</b> 79-dykrep
<b>41</b> l-g	<b>C<sub>12</sub>H<sub>10</sub>Se</b> 6.89668	2588.462	<b>Diphenyl selenide</b> −45.628	379/575	377/578 C	574.86/101.325	<b>1132-39-4</b> 47-stu
<b>42</b> l-g	<b>C<sub>2</sub>H<sub>6</sub>Te</b> 6.71518	1688.820	<b>Dimethyl telluride</b> −9.690	298/367	296/368 D	368.29/101.325	<b>593-80-6</b> 76-baegub, 74-efrfed
<b>43</b> l-g	<b>C<sub>4</sub>H<sub>10</sub>Te</b> 6.42026	2161.276	<b>Diethyl telluride</b> −1.503	295/411	298/415 C	400.24/10	<b>627-54-3</b> 76-kozsál, 76-orlosi
<b>44</b> cr-g	<b>C<sub>6</sub>H<sub>14</sub>Te</b> 7.448	2323	<b>Diisopropyltelluride</b> 0	263/298	263/298 C	274.98/o.1	<b>51112-72-2</b> 84-kuhmom Note 2