

## PHYSICAL CONSTANTS OF INORGANIC COMPOUNDS

The compounds in this table were selected on the basis of their laboratory and industrial importance, as well as their value in illustrating trends in the variation of physical properties with position in the periodic table. An effort has been made to include the most frequently encountered inorganic substances; a limited number of organometallics are also covered. Many, if not most, of the compounds that are solids at ambient temperature can exist in more than one crystalline modification. In the absence of other information, the data given here can be assumed to apply to the most stable or common crystalline form. In many cases however, two or more forms are of practical importance, and separate entries will be found in the table.

Compounds are arranged primarily in alphabetical order by the most commonly used name. However, adjustments are made in many instances so as to bring closely related compounds together. For example, hydrides of elements such as boron, silicon, and germanium are grouped together immediately following the entry for the parent element, since they would otherwise be scattered throughout the table. Likewise, the oxoacids of an element are given in one group whenever a strict alphabetical order would separate them (e.g., sulfuric acid and fluorosulfuric acid). The Formula Index following the table provides another means of locating a compound. There is also an index to CAS Registry Numbers.

The following data fields appear in the table:

- **Name:** Systematic name for the substance. The valence state of a metallic element is indicated by a Roman numeral, e.g., copper in the +1 state is written as copper(I) rather than cuprous, iron in the +3 state is iron(III) rather than ferric.
- **Formula:** The simplest descriptive formula is given, but this does not necessarily specify the actual structure of the compound. For example, aluminum chloride is designated as  $\text{AlCl}_3$ , even though a more accurate representation of the structure in the solid phase (and, under some conditions, in the gas phase) is  $\text{Al}_2\text{Cl}_6$ . A few exceptions are made, such as the use of  $\text{Hg}_2^{+2}$  for the mercury(I) ion.
- **CAS Registry Number:** Chemical Abstracts Service Registry Number. An asterisk\* following the CAS RN for a hydrate indicates that the number refers to the anhydrous compound. In most cases the generic CAS RN for the compound is given rather than the number for a specific crystalline form or mineral.
- **Mol. Weight:** Molecular weight (relative molar mass) as calculated with the 2005 IUPAC Recommended Atomic Weights. The number of decimal places corresponds to the number of places in the atomic weight of the least accurately known element (e.g., one place for lead compounds, two places for compounds of selenium, germanium, etc.);

a maximum of three places is given. For compounds of radioactive elements for which IUPAC makes no recommendation, the mass number of the isotope with longest half-life is used.

- **Physical Form:** The crystal system is given, when available, for compounds that are solid at room temperature, together with color and other descriptive features. Abbreviations are listed below.
- **mp:** Normal melting point in °C. The notation tp indicates the temperature where solid, liquid, and gas are in equilibrium at a pressure greater than one atmosphere (i.e., the normal melting point does not exist). When available, the triple point pressure is listed.
- **bp:** Normal boiling point in °C (referred to 101.325 kPa or 760 mmHg pressure). The notation sp following the number indicates the temperature where the pressure of the vapor in equilibrium with the solid reaches 101.325 kPa. See Reference 8, p. 23, for further discussion of sublimation points and triple points. A notation “sublimes” without a temperature being given indicates that there is a perceptible sublimation pressure above the solid at ambient temperatures.
- **Density:** Density values for solids and liquids are always in units of grams per cubic centimeter and can be assumed to refer to temperatures near room temperature unless otherwise stated. Values for gases are the calculated ideal gas densities in grams per liter at 25°C and 101.325 kPa; the unit is always specified for a gas value.
- **Aqueous Solubility:** Solubility is expressed as the number of grams of the compound (excluding any water of hydration) that will dissolve in 100 grams of water. The temperature in °C is given as a superscript. Solubility at other temperatures can be found for many compounds in the table “Aqueous Solubility of Inorganic Compounds at Various Temperatures” in Section 8.
- **Qualitative Solubility:** Qualitative information on the solubility in other solvents (and in water, if quantitative data are unavailable) is given here. The abbreviations are:
  - i insoluble
  - sl slightly soluble
  - s soluble
  - vs very soluble
  - reac reacts with the solvent

Data were taken from a wide variety of reliable sources, including monographs, treatises, review articles, evaluated compilations and databases, and in many cases the primary literature. Some of the most useful references for the properties covered here are listed below.

### List of Abbreviations

**Ac** - acetyl  
**ace** - acetone  
**acid** - acid solutions  
**alk** - alkaline solutions  
**amorp** - amorphous  
**anh** - anhydrous  
**aq** - aqueous

**blk** - black  
**brn** - brown  
**bz** - benzene  
**chl** - chloroform  
**col** - colorless  
**conc** - concentrated  
**cry** - crystals, crystalline

**cub** - cubic  
**cyhex** - cyclohexane  
**dec** - decomposes  
**dil** - dilute  
**diox** - dioxane  
**eth** - ethyl ether  
**EtOH** - ethanol

**exp** - explodes, explosive  
**extrap** - extrapolated  
**flam** - flammable  
**gl** - glass, glassy  
**grn** - green  
**hc** - hydrocarbon solvents  
**hex** - hexagonal, hexane

<b>hp</b> - heptane	<b>orth</b> - orthorhombic	<b>s</b> - soluble in	<b>tp</b> - triple point
<b>HT</b> - high temperature	<b>os</b> - organic solvents	<b>silv</b> - silvery	<b>trans</b> - transition, transformation
<b>hyd</b> - hydrate	<b>peth</b> - petroleum ether	<b>sl</b> - slightly soluble in	<b>tricl</b> - triclinic
<b>hyg</b> - hygroscopic	<b>pow</b> - powder	<b>soln</b> - solution	<b>trig</b> - trigonal
<b>i</b> - insoluble in	<b>prec</b> - precipitate	<b>sp</b> - sublimation point	<b>unstab</b> - unstable
<b>liq</b> - liquid	<b>pur</b> - purple	<b>stab</b> - stable	<b>viol</b> - violet
<b>LT</b> - low temperature	<b>py</b> - pyridine	<b>subl</b> - sublimes	<b>visc</b> - viscous
<b>MeOH</b> - methanol	<b>reac</b> - reacts with	<b>temp</b> - temperature	<b>vs</b> - very soluble in
<b>monocl</b> - monoclinic	<b>refrac</b> - refractory	<b>tetr</b> - tetragonal	<b>wh</b> - white
<b>octahed</b> - octahedral	<b>rhom</b> - rhombohedral	<b>thf</b> - tetrahydrofuran	<b>xyl</b> - xylene
<b>oran</b> - orange	<b>r.t.</b> - room temperature	<b>tol</b> - toluene	<b>yel</b> - yellow

## References

- Phillips, S. L., and Perry, D.L., *Handbook of Inorganic Compounds*, CRC Press, Boca Raton, FL, 1995.
- Trotman-Dickenson, A. F., Executive Editor, *Comprehensive Inorganic Chemistry*, Vol. 1-5, Pergamon Press, Oxford, 1973.
- Greenwood, N. N., and Earnshaw, A., *Chemistry of the Elements, Second Edition*, Butterworth-Heinemann, Oxford, 1997.
- Wiberg, N., Wiberg, E., and Holleman, H. F., *Inorganic Chemistry, 34th Edition*, Academic Press, San Diego, 2001.
- GMELIN Handbook of Inorganic and Organometallic Chemistry*, Springer-Verlag, Heidelberg.
- Chase, M.W., Davies, C.A., Downey, J.R., Frurip, D. J., McDonald, R.A., and Syverud, A.N.; *JANAF Thermochemical Tables, Third Edition, J. Phys. Chem. Ref. Data*, Vol. 14, Suppl. 1, 1985; Chase, M. W., *NIST-JANAF Thermochemical Tables, Fourth Edition, J. Phys. Chem. Ref. Data*, Monograph No. 9, 1998.
- Landolt-Börnstein, Numerical Data and Functional Relationships in Science and Technology, New Series*, IV/19A, "Thermodynamic Properties of Inorganic Materials compiled by SGTE", Springer-Verlag, Heidelberg; Part 1, 1999; Part 2, 1999; Part 3, 2000; Part 4, 2001.
- Lide, D. R., and Kehiaian, H.V., *CRC Handbook of Thermophysical and Thermochemical Data*, CRC Press, Boca Raton, FL, 1994.
- Kirk-Othmer Concise Encyclopedia of Chemical Technology*, Wiley-Interscience, New York, 1985.
- Dictionary of Inorganic Compounds*, Chapman & Hall, New York, 1992.
- Massalski, T. B., ed., *Binary Alloy Phase Diagrams, 2nd Edition*, ASM International, Metals Park, Ohio, 1990.
- Dinsdale, A.T., "SGTE Data for Pure Elements", *CALPHAD*, 15, 317-425, 1991.
- Madelung, O., *Semiconductors: Group IV Elements and III-IV Compounds*, Springer-Verlag, Heidelberg, 1991.
- Lidin, R. A., Andreeva, L. L., and Molochko, V. A., *Constants of Inorganic Substances*, Begell House, New York, 1995.
- Gurvich, L. V., Veyts, I. V., and Alcock, C. B., *Thermodynamic Properties of Individual Substances, Fourth Edition*, Hemisphere Publishing Corp., New York, 1989.
- The Combined Chemical Dictionary on CDROM, Version 9:1*, Chapman & Hall/CRC, Boca Raton, FL, & London, 2005.
- Macdonald, F., Editor, *Chapman & Hall/CRC Combined Chemical Dictionary*, <<http://www.chemnetbase.com/scripts/ccdweb.exe>>.
- Sangeeta, G., and LaGraff, J. R., *Inorganic Materials Chemistry, Second Edition*, CRC Press, Boca Raton, FL, & London, 2005.
- Stern, K. H., *High Temperature Properties and Thermal Decomposition of Inorganic Salts with Oxyanions*, CRC Press, Boca Raton, FL, & London, 2001.
- Donnay, J.D.H., and Ondik, H.M., *Crystal Data Determinative Tables, Third Edition, Volumes 2 and 4, Inorganic Compounds*, Joint Committee on Powder Diffraction Standards, Swarthmore, PA, 1973.
- Robie, R., Bethke, P. M., and Beardsley, K. M., *Selected X-ray Crystallographic Data, Molar Volumes, and Densities of Minerals and Related Substances*, U.S. Geological Survey Bulletin 1248, 1967.
- Carmichael, R. S., *Practical Handbook of Physical Properties of Rocks and Minerals*, CRC Press, Boca Raton, FL, 1989.
- Deer, W. A., Howie, R.A., and Zussman, J., *An Introduction to the Rock-Forming Minerals*, 2nd Edition, Longman Scientific & Technical, Harlow, Essex, 1992.
- Linstrom, P. J., and Mallard, W. G., Editors, NIST Chemistry WebBook, NIST Standard Reference Database No. 69, June 2005, National Institute of Standards and Technology, Gaithersburg, MD 20899, <<http://webbook.nist.gov>>.
- Phase Diagrams for Ceramists, Volumes 1-8; ACeS-NIST Phase Equilibrium Diagrams, Volumes 9-13*, American Ceramic Society, Westerville, Ohio, 1964-2001.

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1	Actinium	Ac	7440-34-8	227	silv metal; cub	1050	3198	10		
2	Actinium bromide	AcBr <sub>3</sub>	33689-81-5	467	wh hex cry		800 subl	5.85		s H <sub>2</sub> O
3	Actinium chloride	AcCl <sub>3</sub>	22986-54-5	333	wh hex cry		960 subl	4.81		
4	Actinium fluoride	AcF <sub>3</sub>	33689-80-4	284	wh hex cry			7.88		i H <sub>2</sub> O
5	Actinium iodide	AcI <sub>3</sub>	33689-82-6	608	wh cry					s H <sub>2</sub> O
6	Actinium oxide	Ac <sub>2</sub> O <sub>3</sub>	12002-61-8	502	wh hex cry	1977		9.19		i H <sub>2</sub> O
7	Aluminum	Al	7429-90-5	26.982	silv-wh metal; cub cry	660.32	2519	2.70		i H <sub>2</sub> O; s acid, alk
8	Aluminum acetate	Al(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	139-12-8	204.113	wh hyg solid	dec				s H <sub>2</sub> O; sl ace
9	Aluminum diacetate	Al(OH)(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	142-03-0	162.078	wh amorp powder					i H <sub>2</sub> O
10	Aluminum ammonium sulfate	AlNH <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub>	7784-25-0	237.146	wh powder					sl H <sub>2</sub> O; i EtOH
11	Aluminum ammonium sulfate dodecahydrate	AlNH <sub>4</sub> (SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7784-26-1	453.329	col cry or powder	94.5	>280 dec	1.65		s H <sub>2</sub> O; i EtOH
12	Aluminum antimonide	AlSb	25152-52-7	148.742	brn cub cry	1065		4.26		
13	Aluminum arsenide	AlAs	22831-42-1	101.903	oran cub cry; hyg	1740		3.76		
14	Aluminum borate	2Al <sub>2</sub> O <sub>3</sub> · B <sub>2</sub> O <sub>3</sub>	11121-16-7	273.543	needles	≈1050				i H <sub>2</sub> O
15	Aluminum borohydride	Al(BH <sub>4</sub> ) <sub>3</sub>	16962-07-5	71.510	flam liq	-64.5	44.5			reac H <sub>2</sub> O
16	Aluminum bromate nonahydrate	Al(BrO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	11126-81-1*	572.826	wh hyg cry	62	>100 dec			s H <sub>2</sub> O
17	Aluminum bromide	AlBr <sub>3</sub>	7727-15-3	266.694	wh-yel monocl cry; hyg	97.5	255	3.2		reac H <sub>2</sub> O; s bz, tol

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
18	Aluminum bromide hexahydrate	AlBr <sub>3</sub> · 6H <sub>2</sub> O	7784-11-4	374.785	col-yel hyg cry	93		2.54		s H <sub>2</sub> O, EtOH, CS <sub>2</sub>
19	Aluminum carbide	Al <sub>4</sub> C <sub>3</sub>	1299-86-1	143.958	yel hex cry	2100	>2200 dec	2.36		reac H <sub>2</sub> O
20	Aluminum chlorate nonahydrate	Al(ClO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	15477-33-5	439.473	hyg cry					vs H <sub>2</sub> O; s EtOH
21	Aluminum chloride	AlCl <sub>3</sub>	7446-70-0	133.341	wh hex cry or powder; hyg	192.6	180 sp	2.48	45.1 <sup>25</sup>	s bz, ctc, chl
22	Aluminum chloride hexahydrate	AlCl <sub>3</sub> · 6H <sub>2</sub> O	7784-13-6	241.432	col hyg cry	100 dec		2.398	45.1 <sup>25</sup>	s EtOH, eth
23	Dichloromethylaluminum	AlCl <sub>2</sub> CH <sub>3</sub>	917-65-7	112.923	cry	72.7	95 <sup>10</sup>			s bz, eth, hc
24	Chlorodiethylaluminum	AlCl(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	96-10-6	120.557	col liq	-74		0.96		reac H <sub>2</sub> O
25	Chlorodiisobutylaluminum	AlCl(C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	1779-25-5	176.664	hyg col liq	-40		0.95		s eth, hx
26	Aluminum diboride	AlB <sub>2</sub>	12041-50-8	48.604	powder	>920 dec		3.19		s dil HCl
27	Aluminum dodecaboride	AlB <sub>12</sub>	12041-54-2	156.714	yel-brn prisms	2070		2.55		s hot HNO <sub>3</sub> ; i acid, alk
28	Aluminum ethanolate	Al(C <sub>2</sub> H <sub>5</sub> O) <sub>3</sub>	555-75-9	162.163	liq, condenses to wh solid	140				reac H <sub>2</sub> O; sl xyl
29	Aluminum fluoride	AlF <sub>3</sub>	7784-18-1	83.977	wh hex cry	2250 tp (220 MPa)	1276 sp	3.10	0.50 <sup>25</sup>	
30	Aluminum fluoride monohydrate	AlF <sub>3</sub> · H <sub>2</sub> O	32287-65-3	101.992	orth cry			2.17	0.50 <sup>25</sup>	
31	Aluminum fluoride trihydrate	AlF <sub>3</sub> · 3H <sub>2</sub> O	15098-87-0	138.023	wh hyg cry			1.914	0.50 <sup>25</sup>	
32	Aluminum hexafluorosilicate nonahydrate	Al <sub>2</sub> (SiF <sub>6</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	17099-70-6	642.329	hex prisms	>500 dec				s H <sub>2</sub> O
33	Aluminum hydride	AlH <sub>3</sub>	7784-21-6	30.006	col hex cry	>150 dec				reac H <sub>2</sub> O
34	Aluminum hydroxide	Al(OH) <sub>3</sub>	21645-51-2	78.004	wh amorp powder			2.42		i H <sub>2</sub> O; s alk, acid
35	Aluminum hydroxychloride	Al <sub>2</sub> (OH) <sub>2</sub> Cl · 2H <sub>2</sub> O	1327-41-9	210.483	gl solid					s H <sub>2</sub> O
36	Aluminum iodide	AlI <sub>3</sub>	7784-23-8	407.695	wh leaflets	188.28	382	3.98		reac H <sub>2</sub> O
37	Aluminum iodide hexahydrate	AlI <sub>3</sub> · 6H <sub>2</sub> O	10090-53-6	515.786	yel hyg cry powder					vs H <sub>2</sub> O; s EtOH, eth
38	Aluminum lactate	Al(C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>3</sub>	18917-91-4	294.192	powder					vs H <sub>2</sub> O
39	Aluminum molybdate	Al <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub>	15123-80-5	533.78	wh pow	≈950				
40	Aluminum nitrate	Al(NO <sub>3</sub> ) <sub>3</sub>	13473-90-0	212.997	wh hyg solid	dec			68.9 <sup>25</sup>	vs EtOH; sl ace
41	Aluminum nitrate nonahydrate	Al(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	7784-27-2	375.134	wh hyg monocl cry	73	135 dec	1.72	68.9 <sup>25</sup>	vs EtOH; i pyr
42	Aluminum nitride	AlN	24304-00-5	40.989	blue-wh hex cry	3000		3.255		reac H <sub>2</sub> O
43	Aluminum oleate	Al(C <sub>18</sub> H <sub>33</sub> O <sub>2</sub> ) <sub>3</sub>	688-37-9	871.342	yel solid					i H <sub>2</sub> O; s EtOH, bz
44	Aluminum oxalate monohydrate	Al <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · H <sub>2</sub> O	814-87-9	336.035	wh pow					i H <sub>2</sub> O, EtOH; s acid
45	Aluminum oxide (α)	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	101.961	wh powder; hex	2054	2977	3.99		i H <sub>2</sub> O, os; sl alk
46	Aluminum oxide (γ)	Al <sub>2</sub> O <sub>3</sub>	1344-28-1	101.961	soft wh pow	trans to corundum 1200		3.97		i H <sub>2</sub> O; s acid; sl alk
47	Aluminum oxyhydroxide (boehmite)	AlO(OH)	1318-23-6	59.989	wh orth cry	trans to diasphore 227		3.07		i H <sub>2</sub> O; s hot acid, alk
48	Aluminum oxyhydroxide (diasphore)	AlO(OH)	14457-84-2	59.989	orth cry	dec 450		3.38		i H <sub>2</sub> O; s acid, alk
49	Aluminum palmitate	Al(C <sub>15</sub> H <sub>31</sub> COO) <sub>3</sub>	555-35-1	793.230	wh-yel powder					i H <sub>2</sub> O, EtOH; s peth
50	Aluminum 2,4-pentanedioate	Al(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	13963-57-0	324.306	pale yel prisms	194.6	315	1.27		i H <sub>2</sub> O; s bz, EtOH; sl hex
51	Aluminum perchlorate	Al(ClO <sub>4</sub> ) <sub>3</sub>	14452-39-2	325.334	wh hyg cry				55 <sup>0</sup>	s H <sub>2</sub> O, eth; i ctc
52	Aluminum perchlorate nonahydrate	Al(ClO <sub>4</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	14452-39-2	487.471	wh hyg cry	82 dec		2.0	182.4 <sup>0</sup>	
53	Aluminum phosphate	AlPO <sub>4</sub>	7784-30-7	121.953	wh rhomb plates	>1460		2.56		i H <sub>2</sub> O; sl acid
54	Aluminum phosphate dihydrate	AlPO <sub>4</sub> · 2H <sub>2</sub> O	13477-75-3	157.984	wh rhom cry	dec 1500		2.54		i H <sub>2</sub> O
55	Aluminum phosphate trihydroxide	Al <sub>2</sub> (OH) <sub>3</sub> PO <sub>4</sub>	12004-29-4	199.957	wh or yel monocl cry			2.7		
56	Aluminum metaphosphate	Al(PO <sub>3</sub> ) <sub>3</sub>	32823-06-6	263.898	col powder; tetr	≈1525		2.78		i H <sub>2</sub> O
57	Aluminum hypophosphite	Al(H <sub>2</sub> PO <sub>2</sub> ) <sub>3</sub>	7784-22-7	221.948	cry powder	220 dec				i H <sub>2</sub> O; s alk, acid
58	Aluminum phosphide	AlP	20859-73-8	57.956	grn or yel cub cry	2550		2.40		reac H <sub>2</sub> O
59	Aluminum selenide	Al <sub>2</sub> Se <sub>3</sub>	1302-82-5	290.84	yel-brown powder	960		3.437		reac H <sub>2</sub> O
60	Aluminum silicate (andalusite)	Al <sub>2</sub> SiO <sub>5</sub>	12183-80-1	162.046	gray-grn cry			3.145		
61	Aluminum silicate (kyanite)	Al <sub>2</sub> SiO <sub>5</sub>	1302-76-7	162.046	blue or gray tricl cry	dec 1000		3.68		
62	Aluminum silicate (mullite)	3Al <sub>2</sub> O <sub>3</sub> · 2SiO <sub>2</sub>	1302-93-8	426.052	col orth cry	1750		3.17		i H <sub>2</sub> O, acid, HF
63	Aluminum silicate (sillimanite)	Al <sub>2</sub> SiO <sub>5</sub>	12141-45-6	162.046	wh orth cry	1816		3.25		
64	Aluminum silicate dihydrate	Al <sub>2</sub> O <sub>3</sub> · 2SiO <sub>2</sub> · 2H <sub>2</sub> O	1332-58-7	258.161	wh-yel powder; tricl			2.59		i H <sub>2</sub> O, acid, alk
65	Aluminum stearate	Al(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>3</sub>	637-12-7	877.390	wh powder	115		1.070		i H <sub>2</sub> O, EtOH, eth; s alk
66	Aluminum monostearate	Al(OH) <sub>2</sub> (C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> )	7047-84-9	344.467	yel-wh pow	155		1.02		i H <sub>2</sub> O
67	Aluminum distearate	Al(OH)(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	300-92-5	610.928	wh pow	145				i H <sub>2</sub> O
68	Aluminum sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10043-01-3	342.151	wh cry	1040 dec			38.5 <sup>25</sup>	i EtOH
69	Aluminum sulfate octadecahydrate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 18H <sub>2</sub> O	7784-31-8	666.426	col monocl cry	86 dec		1.69	38.5 <sup>25</sup>	
70	Aluminum sulfide	Al <sub>2</sub> S <sub>3</sub>	1302-81-4	150.158	yel-gray powder	1100		2.02		
71	Aluminum telluride	Al <sub>2</sub> Te <sub>3</sub>	12043-29-7	436.76	gray-blk hex cry	≈895		4.5		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
72	Aluminum thiocyanate	Al(SCN) <sub>3</sub>	538-17-0	201.229	yel powder					s H <sub>2</sub> O; i EtOH, eth
73	Aluminum titanate	Al <sub>2</sub> TiO <sub>5</sub>	12004-39-6	181.827	refrac solid	1860				
74	Aluminum zirconium	Al <sub>2</sub> Zr	12004-50-1	145.187	metallic solid	1645				
75	Americium	Am	7440-35-9	243	silv metal; hex or cub	1176	2011	12		s acid
76	Americium(III) oxide	Am <sub>2</sub> O <sub>3</sub>	12254-64-7	534	tan hex cry			11.77		s acid
77	Americium(III) bromide	AmBr <sub>3</sub>	14933-38-1	483	wh orth cry			6.85		s H <sub>2</sub> O
78	Americium(III) chloride	AmCl <sub>3</sub>	13464-46-5	349	pink hex cry	500		5.87		
79	Americium(III) fluoride	AmF <sub>3</sub>	13708-80-0	300	pink hex cry	1393		9.53		
80	Americium(III) iodide	AmI <sub>3</sub>	13813-47-3	624	yel ortho cry	≈950		6.9		
81	Americium(IV) fluoride	AmF <sub>4</sub>	15947-41-8	319	tan mono cry			7.23		
82	Americium(IV) oxide	AmO <sub>2</sub>	12005-67-3	275	blk cub cry	>1000 dec		11.68		s acid
83	Ammonia	NH <sub>3</sub>	7664-41-7	17.031	col gas	-77.73	-33.33	0.696 g/L		vs H <sub>2</sub> O; s EtOH, eth
84	Ammonium acetate	NH <sub>4</sub> C <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	631-61-8	77.083	wh hyg cry	114		1.073	148 <sup>4</sup>	s EtOH; sl ace
85	Ammonium azide	NH <sub>4</sub> N <sub>3</sub>	12164-94-2	60.059	orth cry; flam	160	exp	1.346	20.2 <sup>30</sup>	
86	Ammonium benzoate	NH <sub>4</sub> C <sub>6</sub> H <sub>5</sub> O <sub>2</sub>	1863-63-4	139.152	wh cry or powder	198		1.26		s H <sub>2</sub> O; sl EtOH
87	Ammonium bromate	NH <sub>4</sub> BrO <sub>3</sub>	13843-59-9	145.941	col hex cry	exp				vs H <sub>2</sub> O
88	Ammonium bromide	NH <sub>4</sub> Br	12124-97-9	97.943	wh hyg tetr cry	542 dec	396 sp	2.429	78.3 <sup>25</sup>	s EtOH, ace; sl eth
89	Ammonium caprylate	NH <sub>4</sub> C <sub>8</sub> H <sub>15</sub> O <sub>2</sub>	5972-76-9	161.243	hyg mono cry	≈75				rac H <sub>2</sub> O; s EtOH; i chl, bz
90	Ammonium carbamate	NH <sub>4</sub> COONH <sub>4</sub>	1111-78-0	78.071	cry powder					vs H <sub>2</sub> O; s EtOH
91	Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>	506-87-6	96.086	col cry powder	58 dec			100 <sup>15</sup>	
92	Ammonium chlorate	NH <sub>4</sub> ClO <sub>3</sub>	10192-29-7	101.490	wh cry	102 exp		1.80	28.7 <sup>9</sup>	
93	Ammonium chloride	NH <sub>4</sub> Cl	12125-02-9	53.492	col cub cry	520.1 tp (dec)	338 sp	1.519	39.5 <sup>25</sup>	
94	Ammonium chromate	(NH <sub>4</sub> ) <sub>2</sub> CrO <sub>4</sub>	7788-98-9	152.071	yel cry	185 dec		1.90	37 <sup>25</sup>	sl ace, MeOH; i EtOH
95	Ammonium chromic sulfate dodecahydrate	NH <sub>4</sub> Cr(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	10022-47-6	478.343	blue-viol cry	94 dec		1.72		s H <sub>2</sub> O; sl EtOH
96	Ammonium cobalt(II) phosphate	CoNH <sub>4</sub> PO <sub>4</sub>	14590-13-7	171.943	red-viol powder (hyd)					i H <sub>2</sub> O; s acid
97	Ammonium cobalt(II) phosphate monohydrate	CoNH <sub>4</sub> PO <sub>4</sub> · H <sub>2</sub> O	16827-96-6	189.959	red-purp orth plates	dec 450				s acid
98	Ammonium cobalt(II) sulfate hexahydrate	(NH <sub>4</sub> ) <sub>2</sub> Co(SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13586-38-4	395.227	red mono cry			1.90		s H <sub>2</sub> O; i EtOH
99	Ammonium copper(II) chloride	CuCl <sub>2</sub> · 2NH <sub>4</sub> Cl	10060-13-6*	241.435	yel hyg orth cry					s H <sub>2</sub> O
100	Ammonium copper(II) chloride dihydrate	CuCl <sub>2</sub> · 2NH <sub>4</sub> Cl · 2H <sub>2</sub> O	10060-13-6	277.465	blue-grn tetr cry	110 dec		1.993		s H <sub>2</sub> O, EtOH
101	Ammonium cyanide	NH <sub>4</sub> CN	12211-52-8	44.056	col tetr cry	dec		1.10		vs H <sub>2</sub> O
102	Ammonium dichromate	(NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7789-09-5	252.065	oran-red mono cry; hyg	180 dec		2.155	35.6 <sup>20</sup>	
103	Ammonium dihydrogen arsenate	NH <sub>4</sub> H <sub>2</sub> AsO <sub>4</sub>	13462-93-6	158.975	tetr cry	300 dec		2.311	52.7 <sup>25</sup>	
104	Ammonium dihydrogen phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	7722-76-1	115.026	wh tetr cry	190		1.80	40.4 <sup>25</sup>	sl EtOH; i ace
105	Ammonium <i>O,O</i> -diethyldithiophosphate	(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> P(S)SNH <sub>4</sub>	1068-22-0	203.264	cry	165				
106	Ammonium dithiocarbamate	NH <sub>4</sub> NH <sub>2</sub> CSS	513-74-6	110.202	yel ortho cry	99 dec		1.45		s H <sub>2</sub> O
107	Ammonium ferricyanide trihydrate	(NH <sub>4</sub> ) <sub>3</sub> Fe(CN) <sub>6</sub> · 3H <sub>2</sub> O	14221-48-8*	320.110	red cry					s H <sub>2</sub> O; i EtOH
108	Ammonium ferrocyanide trihydrate	(NH <sub>4</sub> ) <sub>4</sub> Fe(CN) <sub>6</sub> · 3H <sub>2</sub> O	14481-29-9*	338.149	yel cry	dec				s H <sub>2</sub> O; i EtOH
109	Ammonium fluoride	NH <sub>4</sub> F	12125-01-8	37.037	wh hex cry; hyg	238		1.015	83.5 <sup>25</sup>	sl EtOH
110	Ammonium fluorosulfonate	NH <sub>4</sub> SO <sub>3</sub> F	13446-08-7	117.100	col needles	245				s H <sub>2</sub> O, EtOH, MeOH
111	Ammonium formate	NH <sub>4</sub> CHO <sub>2</sub>	540-69-2	63.057	hyg cry	116		1.27	143 <sup>20</sup>	s EtOH
112	Ammonium heptafluorotantalate	(NH <sub>4</sub> ) <sub>7</sub> TaF <sub>7</sub>	12022-02-5	350.014	hyg cry					
113	Ammonium hexabromoosmate(IV)	(NH <sub>4</sub> ) <sub>2</sub> OsBr <sub>6</sub>	24598-62-7	705.73	small blk cubes					sl H <sub>2</sub> O; s glycerol; i EtOH
114	Ammonium hexabromoplatinate(IV)	(NH <sub>4</sub> ) <sub>2</sub> PtBr <sub>6</sub>	17363-02-9	710.585	powder	145 dec			0.59 <sup>20</sup>	
115	Ammonium hexachloroiridate(III)	(NH <sub>4</sub> ) <sub>3</sub> IrCl <sub>6</sub>	15752-05-3	459.050	grn pow					
116	Ammonium hexachloroiridate(IV)	(NH <sub>4</sub> ) <sub>3</sub> IrCl <sub>6</sub>	16940-92-4	441.012	blk cry powder	dec		2.856	1.09 <sup>25</sup>	
117	Ammonium hexachloroosmate(IV)	(NH <sub>4</sub> ) <sub>2</sub> OsCl <sub>6</sub>	12125-08-5	439.03	red cry or powder		subl	2.93		s H <sub>2</sub> O, EtOH
118	Ammonium hexachloropalladate(IV)	(NH <sub>4</sub> ) <sub>2</sub> PdCl <sub>6</sub>	19168-23-1	355.22	red-brn hyg cry	dec		2.418		
119	Ammonium hexachloroplatinate(IV)	(NH <sub>4</sub> ) <sub>2</sub> PtCl <sub>6</sub>	16919-58-7	443.879	red-oran cub cry	380 dec		3.065	0.5 <sup>20</sup>	i EtOH
120	Ammonium hexachlororuthenate(IV)	(NH <sub>4</sub> ) <sub>2</sub> RuCl <sub>6</sub>	18746-63-9	349.87	red cry					
121	Ammonium hexafluoroaluminate	(NH <sub>4</sub> ) <sub>2</sub> AlF <sub>6</sub>	7784-19-2	195.087	cub cry			1.78		s H <sub>2</sub> O
122	Ammonium hexafluorogallate	(NH <sub>4</sub> ) <sub>3</sub> GaF <sub>6</sub>	14639-94-2	237.828	col cub cry	>200 dec		2.10		
123	Ammonium hexafluorogermanate	(NH <sub>4</sub> ) <sub>3</sub> GeF <sub>6</sub>	16962-47-3	222.71	wh cry	380	subl	2.564		s H <sub>2</sub> O; i EtOH
124	Ammonium hexafluorophosphate	NH <sub>4</sub> PF <sub>6</sub>	16941-11-0	163.003	wh cub cry	58 dec		2.180		vs H <sub>2</sub> O; s ace, EtOH, MeOH
125	Ammonium hexafluorosilicate	(NH <sub>4</sub> ) <sub>2</sub> SiF <sub>6</sub>	16919-19-0	178.153	wh cub or trig cry	dec		2.011	22.7 <sup>25</sup>	i EtOH, ace
126	Ammonium hexafluorotitanate	(NH <sub>4</sub> ) <sub>2</sub> TiF <sub>6</sub>	16962-40-6	197.934	wh solid					s H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
127	Ammonium hexafluorozirconate(IV)	(NH <sub>4</sub> ) <sub>2</sub> ZrF <sub>6</sub>	16919-31-6	241.291	wh hex cry			1.154		s H <sub>2</sub> O
128	Ammonium hydrogen arsenate	(NH <sub>4</sub> ) <sub>2</sub> HAsO <sub>4</sub>	7784-44-3	176.004	wh powder			1.99		s H <sub>2</sub> O
129	Ammonium hydrogen carbonate	NH <sub>4</sub> HCO <sub>3</sub>	1066-33-7	79.056	col or wh prisms	107 dec		1.586	24.8 <sup>25</sup>	i EtOH, bz
130	Ammonium hydrogen citrate	(NH <sub>4</sub> ) <sub>3</sub> HC <sub>6</sub> H <sub>5</sub> O <sub>7</sub>	3012-65-5	226.184	col cry			1.48		vs H <sub>2</sub> O; sl EtOH
131	Ammonium hydrogen fluoride	NH <sub>4</sub> HF <sub>2</sub>	1341-49-7	57.044	wh orth cry	125	240 dec	1.50	60.2 <sup>20</sup>	
132	Ammonium hydrogen malate	NH <sub>4</sub> C <sub>4</sub> H <sub>5</sub> O <sub>5</sub>	5972-71-4	151.118	orth cry	160		1.15		s H <sub>2</sub> O; sl EtOH
133	Ammonium hydrogen oxalate monohydrate	NH <sub>4</sub> HC <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	5972-72-5*	125.081	col rhomb cry	dec		1.56		sl H <sub>2</sub> O, EtOH
134	Ammonium hydrogen phosphate	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	7783-28-0	132.055	wh cry	155 dec		1.619	69.5 <sup>25</sup>	i EtOH, ace
135	Ammonium hydrogen phosphite monohydrate	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>3</sub> · H <sub>2</sub> O	51503-61-8	134.071	hyg cry					s H <sub>2</sub> O
136	Ammonium hydrogen selenate	NH <sub>4</sub> HSeO <sub>4</sub>	10294-60-7	162.01	rhomb cry	dec		2.162		
137	Ammonium hydrogen sulfate	NH <sub>4</sub> HSO <sub>4</sub>	7803-63-6	115.110	wh hyg cry	147		1.78	100 <sup>20</sup>	i EtOH, ace, py
138	Ammonium hydrogen sulfide	NH <sub>4</sub> HS	12124-99-1	51.112	wh tetr or orth cry	dec		1.17	128 <sup>9</sup>	sl ace; i bz, eth
139	Ammonium hydrogen sulfite	NH <sub>4</sub> HSO <sub>3</sub>	10192-30-0	99.110	col cry	dec		2.03	71.8 <sup>9</sup>	
140	Ammonium hydrogen tartrate	NH <sub>4</sub> HC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	3095-65-6	167.117	wh cry			1.68		sl H <sub>2</sub> O; s alk; i EtOH
141	Ammonium hydroxide	NH <sub>4</sub> OH	1336-21-6	35.046	exists only in soln					
142	Ammonium hypophosphite	NH <sub>4</sub> H <sub>2</sub> PO <sub>2</sub>	7803-65-8	83.028	wh hyg cry	dec				vs H <sub>2</sub> O; sl EtOH; i ace
143	Ammonium iodate	NH <sub>4</sub> IO <sub>3</sub>	13446-09-8	192.941	wh powder	150		3.3	3.84 <sup>25</sup>	
144	Ammonium iodide	NH <sub>4</sub> I	12027-06-4	144.943	wh tetr cry; hyg	551 dec	405 sp	2.514	178 <sup>25</sup>	sl EtOH, MeOH
145	Ammonium iron(II) sulfate hexahydrate	(NH <sub>4</sub> ) <sub>2</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	7783-85-9	392.139	blue-grn monoc cry	≈100 dec		1.86		s H <sub>2</sub> O; i EtOH
146	Ammonium iron(III) chromate	NH <sub>4</sub> Fe(CrO <sub>4</sub> ) <sub>2</sub>	7789-08-4	305.871	red powder					i H <sub>2</sub> O
147	Ammonium iron(III) oxalate trihydrate	(NH <sub>4</sub> ) <sub>3</sub> Fe(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	13268-42-3	428.063	grn monoc cry; hyg	≈160 dec		1.780		vs H <sub>2</sub> O; i EtOH
148	Ammonium iron(III) sulfate dodecahydrate	NH <sub>4</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7783-83-7	482.192	col to viol cry	≈37		1.71		vs H <sub>2</sub> O; i EtOH
149	Ammonium lactate	NH <sub>4</sub> C <sub>3</sub> H <sub>5</sub> O <sub>3</sub>	52003-58-4	107.108	col cry	92				s H <sub>2</sub> O, EtOH; sl MeOH; i ace, eth
150	Ammonium magnesium chloride hexahydrate	NH <sub>4</sub> MgCl <sub>3</sub> · 6H <sub>2</sub> O	39733-35-2	256.794	hyg cry	dec 100		1.46	17 <sup>20</sup>	s H <sub>2</sub> O
151	Ammonium mercuric chloride dihydrate	(NH <sub>4</sub> ) <sub>2</sub> HgCl <sub>4</sub> · 2H <sub>2</sub> O	33445-15-7*	414.51	powder					s H <sub>2</sub> O; sl EtOH
152	Ammonium metatungstate hexahydrate	(NH <sub>4</sub> ) <sub>6</sub> W <sub>12</sub> O <sub>24</sub> · 6H <sub>2</sub> O	12028-48-7	1887.19	wh cry					s H <sub>2</sub> O; i EtOH
153	Ammonium metavanadate	NH <sub>4</sub> VO <sub>3</sub>	7803-55-6	116.979	wh-yel cry	200 dec		2.326	4.8 <sup>20</sup>	
154	Ammonium molybdate(VI) tetrahydrate	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> · 4H <sub>2</sub> O	12054-85-2	1235.86	col or grn-yel cry	90 dec		2.498	43	i EtOH
155	Ammonium dimolybdate	(NH <sub>4</sub> ) <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub>	27546-07-2	339.95	cry					s H <sub>2</sub> O
156	Ammonium molybdophosphate	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> · 12MoO <sub>3</sub>	12026-66-3	1876.35	grn or yel cry	dec			0.02 <sup>20</sup>	sl H <sub>2</sub> O; s alk
157	Ammonium nitrate	NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	80.043	wh hyg cry; orth	169.7	dec 200-260	1.72	213 <sup>25</sup>	sl MeOH
158	Ammonium nitrite	NH <sub>4</sub> NO <sub>2</sub>	13446-48-5	64.044	wh-yel cry	60 exp		1.69	221 <sup>25</sup>	i eth
159	Ammonium nitroferrocyanide	(NH <sub>4</sub> ) <sub>2</sub> Fe(CN) <sub>5</sub> NO	14402-70-1	252.016	red-brn cry					s H <sub>2</sub> O, EtOH
160	Ammonium oleate	NH <sub>4</sub> C <sub>18</sub> H <sub>33</sub> O <sub>2</sub>	544-60-5	299.493	yel-brn paste	21				s H <sub>2</sub> O; sl ace
161	Ammonium oxalate	(NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	1113-38-8	124.096	col sol			1.5	5.20 <sup>25</sup>	
162	Ammonium oxalate monohydrate	(NH <sub>4</sub> ) <sub>2</sub> C <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	6009-70-7	142.110	wh orth cry	dec		1.50	5.20 <sup>25</sup>	sl EtOH
163	Ammonium palmitate	NH <sub>4</sub> C <sub>15</sub> H <sub>31</sub> CO <sub>2</sub>	593-26-0	273.455	yel-wh powder	22				s H <sub>2</sub> O; sl bz, xyl; i ace, EtOH, ctc
164	Ammonium pentaborate tetrahydrate	NH <sub>4</sub> B <sub>5</sub> O <sub>8</sub> · 4H <sub>2</sub> O	12007-89-5	272.150	wh cry				7.03 <sup>18</sup>	
165	Ammonium pentachlororhodate(III) monohydrate	(NH <sub>4</sub> ) <sub>2</sub> RhCl <sub>5</sub> · H <sub>2</sub> O	63771-33-5	334.262	red cry	dec 210				
166	Ammonium pentachlorozincate	(NH <sub>4</sub> ) <sub>3</sub> ZnCl <sub>5</sub>	14639-98-6	296.789	hyg orth cry			1.81		vs H <sub>2</sub> O
167	Ammonium perchlorate	NH <sub>4</sub> ClO <sub>4</sub>	7790-98-9	117.490	wh orth cry	dec, exp		1.95	24.5 <sup>25</sup>	s MeOH; sl EtOH, ace; i eth
168	Ammonium permanganate	NH <sub>4</sub> MnO <sub>4</sub>	13446-10-1	136.975	purp rhomb cry	70 dec		2.22	7.9 <sup>15</sup>	
169	Ammonium peroxydisulfate	(NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	7727-54-0	228.202	monoc cry or wh powder	dec		1.982	83.5 <sup>25</sup>	
170	Ammonium perrhenate	NH <sub>4</sub> ReO <sub>4</sub>	13598-65-7	268.244	col powder			3.97	6.23 <sup>20</sup>	
171	Ammonium phosphate trihydrate	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> · 3H <sub>2</sub> O	10361-65-6*	203.133	wh prisms				25.0 <sup>25</sup>	i ace
172	Ammonium phosphomolybdate monohydrate	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> · 12MoO <sub>3</sub> · H <sub>2</sub> O	54723-94-3	1894.36	yel cry or powder	dec			0.02	
173	Ammonium phosphotungstate dihydrate	(NH <sub>4</sub> ) <sub>3</sub> PO <sub>4</sub> · 12WO <sub>3</sub> · 2H <sub>2</sub> O	1311-90-6	2967.18	cry powder					sl H <sub>2</sub> O
174	Ammonium picrate	NH <sub>4</sub> C <sub>6</sub> H <sub>2</sub> N <sub>2</sub> O <sub>7</sub>	131-74-8	246.135	yel orth cry	exp		1.72		sl H <sub>2</sub> O
175	Ammonium polysulfide	(NH <sub>4</sub> ) <sub>2</sub> S <sub>x</sub>	9080-17-5		yel unstab soln					reac acids
176	Ammonium salicylate	NH <sub>4</sub> C <sub>7</sub> H <sub>5</sub> O <sub>3</sub>	528-94-9	155.151	wh cry powder					vs H <sub>2</sub> O; s EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
177	Ammonium selenate	(NH <sub>4</sub> ) <sub>2</sub> SeO <sub>4</sub>	7783-21-3	179.04	wh monocl cry	dec		2.194	117 <sup>25</sup>	i EtOH, ace
178	Ammonium selenite	(NH <sub>4</sub> ) <sub>2</sub> SeO <sub>3</sub>	7783-19-9	163.04	wh or red hyg cry	dec			121 <sup>25</sup>	
179	Ammonium stearate	NH <sub>4</sub> C <sub>18</sub> H <sub>35</sub> O <sub>2</sub>	1002-89-7	301.509	yel-wh powder	22		0.89		sl H <sub>2</sub> O, bz; s EtOH, MeOH; i ace
180	Ammonium sulfamate	NH <sub>2</sub> NH <sub>2</sub> SO <sub>3</sub>	7773-06-0	114.124	wh hyg cry	131	160 dec			vs H <sub>2</sub> O; sl EtOH
181	Ammonium sulfate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783-20-2	132.140	wh or brn orth cry	280 dec		1.77	76.4 <sup>25</sup>	i EtOH, ace
182	Ammonium sulfide	(NH <sub>4</sub> ) <sub>2</sub> S	12135-76-1	68.142	yel-oran cry	=0 dec				s H <sub>2</sub> O, EtOH, alk
183	Ammonium sulfite	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>3</sub>	17026-44-7	116.140	wh hyg cry				64.2 <sup>25</sup>	
184	Ammonium sulfite monohydrate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>3</sub> · H <sub>2</sub> O	7783-11-1	134.155	col cry	dec		1.41	64.2 <sup>25</sup>	i EtOH, ace
185	Ammonium tartrate	(NH <sub>4</sub> ) <sub>2</sub> C <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	3164-29-2	184.147	wh cry	dec		1.601		s H <sub>2</sub> O
186	Ammonium tellurate	(NH <sub>4</sub> ) <sub>2</sub> TeO <sub>4</sub>	13453-06-0	227.68	wh powder	dec		3.024		
187	Ammonium tetraborate tetrahydrate	(NH <sub>4</sub> ) <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 4H <sub>2</sub> O	12228-87-4	263.377	wh tet cry	dec 87				vs H <sub>2</sub> O; s HNO <sub>3</sub>
188	Ammonium tetrachloroaluminate	NH <sub>4</sub> AlCl <sub>4</sub>	7784-14-7	186.833	wh hyg solid	304				s H <sub>2</sub> O, eth
189	Ammonium tetrachloropalladate(II)	(NH <sub>4</sub> ) <sub>2</sub> PdCl <sub>4</sub>	13820-40-1	284.31	grn cry or red-brn pow					s H <sub>2</sub> O
190	Ammonium tetrachloroplatinate(II)	(NH <sub>4</sub> ) <sub>2</sub> PtCl <sub>4</sub>	13820-41-2	372.973	red cry	dec		2.936		s H <sub>2</sub> O; i EtOH
191	Ammonium tetrachlorozincate	(NH <sub>4</sub> ) <sub>2</sub> ZnCl <sub>4</sub>	14639-97-5	243.298	wh orth plates; hyg	150 dec		1.879		vs H <sub>2</sub> O
192	Ammonium tetrafluoroantimonate	NH <sub>4</sub> SbF <sub>4</sub>	14972-90-8	215.793	col cry					s H <sub>2</sub> O
193	Ammonium tetrafluoroborate	NH <sub>4</sub> BF <sub>4</sub>	13826-83-0	104.844	wh powder; orth	487 dec		1.871	25 <sup>20</sup>	
194	Ammonium tetrathiocyanodiammonochromate(III) monohydrate	NH <sub>4</sub> [Cr(NH <sub>3</sub> ) <sub>2</sub> (SCN) <sub>4</sub> ] · H <sub>2</sub> O	13573-16-5	354.440	red cry	270 dec				s H <sub>2</sub> O, EtOH, ace; i bz
195	Ammonium tetrathiomolybdate	(NH <sub>4</sub> ) <sub>2</sub> MoS <sub>4</sub>	15060-55-6	260.28	red cry	100 dec				vs H <sub>2</sub> O
196	Ammonium tetrathiotungstate	(NH <sub>4</sub> ) <sub>2</sub> WS <sub>4</sub>	13862-78-7	348.18	oran cry	dec		2.71		s H <sub>2</sub> O
197	Ammonium tetrathiovanadate	(NH <sub>4</sub> ) <sub>2</sub> VS <sub>4</sub>	14693-56-2	233.317	dark viol cry					
198	Ammonium thiocyanate	NH <sub>4</sub> SCN	1762-95-4	76.121	col hyg cry	=149	dec	1.30	181 <sup>25</sup>	vs EtOH; s ace; i chl
199	Ammonium thiosulfate	(NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7783-18-8	148.205	wh cry	150 dec		1.678		vs H <sub>2</sub> O; i EtOH, eth
200	Ammonium titanium oxalate monohydrate	(NH <sub>4</sub> ) <sub>2</sub> TiO(C <sub>2</sub> O <sub>4</sub> ) <sub>2</sub> · H <sub>2</sub> O	10580-03-7	293.996	hyg cry					vs H <sub>2</sub> O
201	Ammonium tungstate(VI)	(NH <sub>4</sub> ) <sub>10</sub> W <sub>12</sub> O <sub>41</sub>	11120-25-5	3042.44	cry powder			2.3		s H <sub>2</sub> O; i EtOH
202	Ammonium tungstate(VI) pentahydrate	(NH <sub>4</sub> ) <sub>10</sub> W <sub>12</sub> O <sub>41</sub> · 5H <sub>2</sub> O	1311-93-9	3132.52	cry pow or plates			2.3		vs H <sub>2</sub> O; i EtOH
203	Ammonium uranate(VI)	(NH <sub>4</sub> ) <sub>2</sub> U <sub>2</sub> O <sub>7</sub>	7783-22-4	624.131	red-yel amorp powder					i H <sub>2</sub> O, alk; s acid
204	Ammonium uranium fluoride	UO <sub>2</sub> (NH <sub>4</sub> ) <sub>3</sub> F <sub>5</sub>	18433-40-4	419.135	grn-yel monocl cry					s H <sub>2</sub> O; i EtOH
205	Ammonium valerate	NH <sub>4</sub> C <sub>4</sub> H <sub>9</sub> CO <sub>2</sub>	42739-38-8	119.163	hyg cry	108				vs H <sub>2</sub> O, EtOH; s eth
206	Antimony (gray)	Sb	7440-36-0	121.760	silv metal; hex	630.628	1587	6.68		i dil acid
207	Antimony (black)	Sb	7440-36-0	121.760	blk amorp solid	trans gray 0				
208	Stibine	SbH <sub>3</sub>	7803-52-3	124.784	col gas; flam	-88	-17	5.100 g/L		sl H <sub>2</sub> O; s EtOH
209	Trimethylstibine	Sb(CH <sub>3</sub> ) <sub>3</sub>	594-10-5	166.863	col flam liq	-62	81	1.52		
210	Pentamethylstibine	Sb(CH <sub>3</sub> ) <sub>5</sub>	15120-50-0	196.933	col hyg liq	-19	127			reac H <sub>2</sub> O
211	Tetramethyldistibine	[Sb(CH <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub>	41422-43-9	303.658	yel flam liq or red solid	17				
212	Antimony arsenide	SbAs	12322-34-8	196.682	hex cry	=680		6.0		
213	Antimony potassium tartrate trihydrate	K <sub>2</sub> (SbC <sub>4</sub> H <sub>4</sub> O <sub>6</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	28300-74-5	669.889	col cry			2.6		sl H <sub>2</sub> O
214	Antimony(III) acetate	Sb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	3643-76-3	298.891	wh pow					
215	Antimony(III) bromide	SbBr <sub>3</sub>	7789-61-9	361.472	yel orth cry; hyg	97	288	4.35		reac H <sub>2</sub> O; s ace, bz, chl
216	Antimony(III) chloride	SbCl <sub>3</sub>	10025-91-9	228.119	col orth cry; hyg	73.4	220.3	3.14	987 <sup>25</sup>	s acid, EtOH, bz, ace
217	Antimony(III) fluoride	SbF <sub>3</sub>	7783-56-4	178.755	wh orth cry; hyg	287	376	4.38	492 <sup>25</sup>	
218	Antimony(III) iodide	SbI <sub>3</sub>	7790-44-5	502.473	red rhomb cry	171	400	4.92		reac H <sub>2</sub> O; s EtOH, ace; i ctc
219	Antimony(III) iodide sulfide	SbIS	13816-38-1	280.729	dark red prisms or needles	400				
220	Antimony(III) oxide (senarmontite)	Sb <sub>2</sub> O <sub>3</sub>	1309-64-4	291.518	col cub cry	570 trans	1425	5.58		sl H <sub>2</sub> O; i os
221	Antimony(III) oxide (valentinite)	Sb <sub>2</sub> O <sub>3</sub>	1309-64-4	291.518	wh orth cry	655	1425	5.7		sl H <sub>2</sub> O; i os
222	Antimony(III) oxychloride	SbOCl	7791-08-4	173.212	wh momo cry	170 dec				reac H <sub>2</sub> O; i EtOH, eth
223	Antimony(III) phosphate	SbPO <sub>4</sub>	12036-46-3	216.731	cry pow					reac H <sub>2</sub> O
224	Antimony(III) potassium oxalate trihydrate	K <sub>3</sub> Sb(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	5965-33-3*	557.158	cry pow					s H <sub>2</sub> O
225	Antimony(III) selenide	Sb <sub>2</sub> Se <sub>3</sub>	1315-05-5	480.40	grn orth cry	611		5.81		sl H <sub>2</sub> O
226	Antimony(III) sulfate	Sb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	7446-32-4	531.708	wh cry powder; hyg	dec		3.62		sl H <sub>2</sub> O
227	Antimony(III) sulfide	Sb <sub>2</sub> S <sub>3</sub>	1345-04-6	339.715	gray-blk orth cry	550		4.562		i H <sub>2</sub> O; s conc HCl
228	Antimony(III) telluride	Sb <sub>2</sub> Te <sub>3</sub>	1327-50-0	626.32	gray cry	620		6.5		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
229	Antimony(III,V) oxide	Sb <sub>2</sub> O <sub>4</sub>	1332-81-6	307.518	yel orth cry			6.64		
230	Antimony(V) chloride	SbCl <sub>5</sub>	7647-18-9	299.025	col or yel liq	4	140 dec	2.34		reac H <sub>2</sub> O; s chl, ctc
231	Antimony(V) fluoride	SbF <sub>5</sub>	7783-70-2	216.752	hyg visc liq	8.3	141	3.10		reac H <sub>2</sub> O
232	Antimony(V) dichlorotrifluoride	SbCl <sub>2</sub> F <sub>3</sub>	7791-16-4	249.661	visc liq					reac H <sub>2</sub> O
233	Antimony(V) oxide	Sb <sub>2</sub> O <sub>5</sub>	1314-60-9	323.517	yel powder; cub	dec		3.78	0.3 <sup>20</sup>	
234	Antimony(V) sulfide	Sb <sub>2</sub> S <sub>5</sub>	1315-04-4	403.845	oran-yel powder	75 dec		4.120		i H <sub>2</sub> O; s acid, alk
235	Argon	Ar	7440-37-1	39.948	col gas	-189.36 tp (69 kPa)	-185.847	1.633 g/L		sl H <sub>2</sub> O
236	Arsenic (gray)	As	7440-38-2	74.922	gray metal; rhomb	817 tp (3.70 MPa)	616 sp	5.75		i H <sub>2</sub> O
237	Arsenic (black)	As	7440-38-2	74.922	blk amorp solid	trans gray As 270		4.9		
238	Arsenic (yellow)	As	7440-38-2	74.922	soft yel cub cry	trans gray As 358		1.97		s CS <sub>2</sub>
239	Arsine	AsH <sub>3</sub>	7784-42-1	77.946	col gas	-116	-62.5	3.186 g/L		sl H <sub>2</sub> O
240	Diarsine	As <sub>2</sub> H <sub>4</sub>	15942-63-9	153.875	unstab liq		≈100			
241	Arsenic acid	H <sub>3</sub> AsO <sub>4</sub>	7778-39-4	141.944	exists only in soln					
242	Arsenic acid hemihydrate	H <sub>3</sub> AsO <sub>4</sub> · 0.5H <sub>2</sub> O	7778-39-4*	150.951	wh hyg cry	36.1		2.5		vs H <sub>2</sub> O, EtOH
243	Arsenious acid	H <sub>3</sub> AsO <sub>3</sub>	13464-58-9	125.944	exists only in soln					
244	Arsenic diiodide	As <sub>2</sub> I <sub>4</sub>	13770-56-4	657.461	red cry	137				reac H <sub>2</sub> O; s os
245	Arsenic hemiselenide	As <sub>2</sub> Se	1303-35-1	228.80	blk cry					i H <sub>2</sub> O, os; dec acid, alk
246	Arsenic sulfide	As <sub>2</sub> S <sub>4</sub>	12279-90-2	427.946	red monocl cry	320	565	3.5		i H <sub>2</sub> O; sl bz; s alk
247	Arsenic(III) bromide	AsBr <sub>3</sub>	7784-33-0	314.634	col or yel orth cry; hyg	31.1	221	3.40		reac H <sub>2</sub> O; s hc, ctc; vs eth, bz
248	Arsenic(III) chloride	AsCl <sub>3</sub>	7784-34-1	181.281	col liq	-16	130	2.150		reac H <sub>2</sub> O; vs chl, ctc, eth
249	Arsenic(III) ethoxide	As(C <sub>2</sub> H <sub>5</sub> O) <sub>3</sub>	3141-12-6	210.103	liq		166	1.21		
250	Arsenic(III) fluoride	AsF <sub>3</sub>	7784-35-2	131.917	col liq	-5.9	57.13	2.7		reac H <sub>2</sub> O; s EtOH, eth, bz
251	Arsenic(III) iodide	AsI <sub>3</sub>	7784-45-4	455.635	red hex cry	141	424	4.73		sl H <sub>2</sub> O, EtOH, eth; s bz, tol
252	Arsenic(III) oxide (arsenolite)	As <sub>2</sub> O <sub>3</sub>	1327-53-3	197.841	wh cub cry	274	460	3.86	2.05 <sup>25</sup>	
253	Arsenic(III) oxide (claudetite)	As <sub>2</sub> O <sub>3</sub>	1327-53-3	197.841	wh monocl cry	314	460	3.74	2.05 <sup>25</sup>	s dil acid, alk; i EtOH
254	Arsenic(III) selenide	As <sub>2</sub> Se <sub>3</sub>	1303-36-2	386.72	brn-blk solid	260		4.75		i H <sub>2</sub> O; s alk
255	Arsenic(III) sulfide	As <sub>2</sub> S <sub>3</sub>	1303-33-9	246.038	yel-oran monocl cry	312	707	3.46		i H <sub>2</sub> O; s alk
256	Arsenic(III) telluride	As <sub>2</sub> Te <sub>3</sub>	12044-54-1	532.64	blk monocl cry	621		6.50		
257	Arsenic(V) chloride	AsCl <sub>5</sub>	22441-45-8	252.187	stab at low temp	≈-50 dec				
258	Arsenic(V) fluoride	AsF <sub>5</sub>	7784-36-3	169.914	col gas	-79.8	-52.8	6.945 g/L		reac H <sub>2</sub> O; s EtOH, bz, eth
259	Arsenic(V) oxide	As <sub>2</sub> O <sub>5</sub>	1303-28-2	229.840	wh amorp powder	315		4.32	65.8 <sup>20</sup>	vs EtOH
260	Arsenic(V) selenide	As <sub>2</sub> Se <sub>5</sub>	1303-37-3	544.64	blk solid	dec				i H <sub>2</sub> O, EtOH, eth; s alk
261	Arsenic(V) sulfide	As <sub>2</sub> S <sub>5</sub>	1303-34-0	310.168	brn-yel amorp solid	dec				i H <sub>2</sub> O; s alk
262	Astatine	At	7440-68-8	210	cry	302				s HNO <sub>3</sub> , os
263	Barium	Ba	7440-39-3	137.327	silv-yel metal; cub	727	1897	3.62		reac H <sub>2</sub> O; sl EtOH
264	Barium acetate	Ba(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	543-80-6	255.416	wh powder			2.47	79.2 <sup>25</sup>	
265	Barium acetate monohydrate	Ba(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	5908-64-5	273.431	wh cry	110 dec		2.19	79.2 <sup>25</sup>	sl EtOH
266	Barium aluminate	BaAl <sub>2</sub> O <sub>4</sub>	12004-04-5	255.288	hex cry	1827				
267	Barium aluminide	BaAl <sub>2</sub>	12672-79-6	245.253	metallic solid	1097				
268	Barium azide	Ba(N <sub>3</sub> ) <sub>2</sub>	18810-58-7	221.367	monocl cry; exp	≈120 dec		2.936	17.3 <sup>20</sup>	sl EtOH; i eth
269	Barium bismuthate	BaBiO <sub>3</sub>	12785-50-1	394.305	bronze cry	1040 dec				
270	Barium bromate	Ba(BrO <sub>3</sub> ) <sub>2</sub>	13967-90-3	393.131	col monocl cry				0.79 <sup>25</sup>	s ace
271	Barium bromate monohydrate	Ba(BrO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	10326-26-8	411.147	wh monocl cry	260 dec		3.99	0.831 <sup>25</sup>	i EtOH
272	Barium bromide	BaBr <sub>2</sub>	10553-31-8	297.135	wh orth cry	857	1835	4.781	100 <sup>25</sup>	
273	Barium bromide dihydrate	BaBr <sub>2</sub> · 2H <sub>2</sub> O	7791-28-8	333.166	wh cry	75 dec		3.7	100 <sup>25</sup>	s MeOH; i EtOH, ace, diox
274	Barium calcium tungstate	Ba <sub>2</sub> CaWO <sub>6</sub>	15552-14-4	594.57	cub cry	1420				
275	Barium carbide	BaC <sub>2</sub>	50813-65-5	161.348	gray tetr cry	dec		3.74		reac H <sub>2</sub> O
276	Barium carbonate	BaCO <sub>3</sub>	513-77-9	197.336	wh orth cry	1380 dec; 1555 (high pres.)		4.308	0.0014 <sup>20</sup>	s acid
277	Barium chlorate	Ba(ClO <sub>3</sub> ) <sub>2</sub>	13477-00-4	304.229	wh cry	414			37.9 <sup>25</sup>	sl EtOH, ace
278	Barium chlorate monohydrate	Ba(ClO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	10294-38-9	322.245	wh monocl cry	120 dec		3.179	37.9 <sup>25</sup>	s acid; sl EtOH, ace
279	Barium chloride	BaCl <sub>2</sub>	10361-37-2	208.233	wh orth cry; hyg	961	1560	3.9	37.0 <sup>25</sup>	
280	Barium chloride dihydrate	BaCl <sub>2</sub> · 2H <sub>2</sub> O	10326-27-9	244.264	wh monocl cry	≈120 dec		3.097	37.0 <sup>25</sup>	i EtOH
281	Barium chloride fluoride	BaClF	13718-55-3	191.778	wh cry					
282	Barium chromate(V)	Ba <sub>3</sub> (CrO <sub>4</sub> ) <sub>2</sub>	12345-14-1	643.968	grn-blk hex cry			5.25		s H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
283	Barium chromate(VI)	BaCrO <sub>4</sub>	10294-40-3	253.321	yel orth cry	1380		4.50	0.00026 <sup>20</sup>	reac acid
284	Barium citrate monohydrate	Ba <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> · H <sub>2</sub> O	512-25-4*	808.195	gray-wh cry					s H <sub>2</sub> O, acid
285	Barium copper yttrium oxide	BaCuY <sub>2</sub> O <sub>5</sub>	82642-06-6	458.682	grn cry; not superconductor					
286	Barium copper yttrium oxide	Ba <sub>2</sub> Cu <sub>3</sub> YO <sub>7</sub>	109064-29-1	666.194	blk solid; HT superconductor					
287	Barium copper yttrium oxide	Ba <sub>2</sub> Cu <sub>4</sub> YO <sub>8</sub>	114104-80-2	745.739	HT superconductor					
288	Barium copper yttrium oxide	Ba <sub>4</sub> Cu <sub>7</sub> Y <sub>2</sub> O <sub>15</sub>	124365-83-9	1411.933	HT superconductor					
289	Barium cyanide	Ba(CN) <sub>2</sub>	542-62-1	189.361	wh cry powder					vs H <sub>2</sub> O; s EtOH
290	Barium dichromate dihydrate	BaCr <sub>2</sub> O <sub>7</sub> · 2H <sub>2</sub> O	10031-16-0	389.346	brn-red needles	dec				reac H <sub>2</sub> O
291	Barium disilicate	BaSi <sub>2</sub> O <sub>5</sub>	12650-28-1	273.495	wh orth cry	1420		3.70		
292	Barium dithionate dihydrate	BaS <sub>2</sub> O <sub>6</sub> · 2H <sub>2</sub> O	13845-17-5	333.484	wh cry	140 dec		4.54	22.1 <sup>20</sup>	sl EtOH
293	Barium ferrite	BaFe <sub>12</sub> O <sub>19</sub>	11138-11-7	1111.456	magnetic solid					
294	Barium ferrocyanide hexahydrate	Ba <sub>2</sub> Fe(CN) <sub>6</sub> · 6H <sub>2</sub> O	13821-06-2*	594.694	yel mono cry	80 dec				i H <sub>2</sub> O, EtOH
295	Barium fluoride	BaF <sub>2</sub>	7787-32-8	175.324	wh cub cry	1368	2260	4.893	0.161 <sup>25</sup>	
296	Barium formate	Ba(CHO <sub>2</sub> ) <sub>2</sub>	541-43-5	227.362	cry			3.21		s H <sub>2</sub> O; i EtOH
297	Barium hexaboride	BaB <sub>6</sub>	12046-08-1	202.193	blk cub cry	2070		4.36		i H <sub>2</sub> O; s acid; i EtOH
298	Barium hexafluorogermanate	BaGeF <sub>6</sub>		323.96	wh cry	≈665		4.56		
299	Barium hexafluorosilicate	BaSiF <sub>6</sub>	17125-80-3	279.403	wh orth needles	300 dec		4.29		i H <sub>2</sub> O, EtOH; sl acid
300	Barium hydride	BaH <sub>2</sub>	13477-09-3	139.343	gray orth cry	1200		4.16		reac H <sub>2</sub> O
301	Barium hydrogen phosphate	BaHPO <sub>4</sub>	10048-98-3	233.306	wh cry powder	400 dec		4.16	0.015 <sup>20</sup>	s dil acid
302	Barium hydrosulfide	Ba(HS) <sub>2</sub>	25417-81-6	203.473	yel hyg cry					s H <sub>2</sub> O
303	Barium hydrosulfide tetrahydrate	Ba(HS) <sub>2</sub> · 4H <sub>2</sub> O	12230-74-9	275.534	yel rhomb cry	50 dec				s H <sub>2</sub> O
304	Barium hydroxide	Ba(OH) <sub>2</sub>	17194-00-2	171.342	wh powder	408			4.91 <sup>25</sup>	
305	Barium hydroxide monohydrate	Ba(OH) <sub>2</sub> · H <sub>2</sub> O	22326-55-2	189.357	wh powder			3.743	4.91 <sup>25</sup>	s acid
306	Barium hydroxide octahydrate	Ba(OH) <sub>2</sub> · 8H <sub>2</sub> O	12230-71-6	315.464	wh mono cry	78 dec		2.18	4.91 <sup>25</sup>	
307	Barium hypophosphite monohydrate	Ba(H <sub>2</sub> PO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	14871-79-5*	285.320	mono cry plates			2.90		s H <sub>2</sub> O; i EtOH
308	Barium iodate	Ba(IO <sub>3</sub> ) <sub>2</sub>	10567-69-8	487.132	wh cry powder	476 dec		5.23	0.0396 <sup>25</sup>	
309	Barium iodate monohydrate	Ba(IO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	7787-34-0	505.148	cry	130 dec		5.00	0.0396 <sup>25</sup>	s acid; i EtOH
310	Barium iodide	BaI <sub>2</sub>	13718-50-8	391.136	wh orth cry	711		5.15	221 <sup>25</sup>	
311	Barium iodide dihydrate	BaI <sub>2</sub> · 2H <sub>2</sub> O	7787-33-9	427.167	col cry	740 dec		5.0	221 <sup>25</sup>	s EtOH, ace
312	Barium manganate(VI)	BaMnO <sub>4</sub>	7787-35-1	256.263	grn-gray hyg cry			4.85	0.00041 <sup>20</sup>	
313	Barium metaborate monohydrate	Ba(BO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	26124-86-7	240.962	wh powder	>900		3.3		sl H <sub>2</sub> O
314	Barium metaborate dihydrate	Ba(BO <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	23436-05-7	258.977	wh prec	dec			1.3 <sup>25</sup>	sl H <sub>2</sub> O
315	Barium metaphosphate	Ba(PO <sub>3</sub> ) <sub>2</sub>	13466-20-1	295.271	wh powder	1560				i H <sub>2</sub> O; sl acid
316	Barium metasilicate	BaSiO <sub>3</sub>	13255-26-0	213.411	col rhomb powder	1605		4.40		i H <sub>2</sub> O; s acid
317	Barium molybdate	BaMoO <sub>4</sub>	7787-37-3	297.27	wh powder	1450		4.975	0.0021 <sup>20</sup>	
318	Barium niobate	Ba(NbO <sub>3</sub> ) <sub>2</sub>	12009-14-2	419.136	yel orth cry	1455		5.44		i H <sub>2</sub> O
319	Barium nitrate	Ba(NO <sub>3</sub> ) <sub>2</sub>	10022-31-8	261.336	wh cub cry	590		3.24	10.3 <sup>25</sup>	sl EtOH, ace
320	Barium nitride	Ba <sub>3</sub> N <sub>2</sub>	12047-79-9	439.994	yel-brn cry	>500 dec		4.78		reac H <sub>2</sub> O
321	Barium nitrite	Ba(NO <sub>2</sub> ) <sub>2</sub>	13465-94-6	229.338	col hex cry	267		3.234	79.5 <sup>25</sup>	
322	Barium nitrite monohydrate	Ba(NO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	7787-38-4	247.353	yel-wh hex cry	217 dec		3.18	79.5 <sup>25</sup>	i EtOH
323	Barium orthovanadate	Ba <sub>2</sub> (VO <sub>3</sub> ) <sub>2</sub>	39416-30-3	641.859	hex cry	707		5.14		
324	Barium oxalate	BaC <sub>2</sub> O <sub>4</sub>	516-02-9	225.346	wh powder	400 dec		2.658	0.0075	
325	Barium oxalate monohydrate	BaC <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	13463-22-4	243.361	wh cry powder			2.66	0.0075 <sup>20</sup>	s acid
326	Barium oxide	BaO	1304-28-5	153.326	wh-yel powder; cub and hex	1973		5.72(cub)	1.5 <sup>20</sup>	s dil acid, EtOH; i ace
327	Barium 2,4-pentanedioate octahydrate	Ba(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	12084-29-6*	479.665	col hyg cry	320 (anh)				
328	Barium perchlorate	Ba(ClO <sub>4</sub> ) <sub>2</sub>	13465-95-7	336.228	col hex cry	505		3.20	312 <sup>25</sup>	vs EtOH
329	Barium perchlorate trihydrate	Ba(ClO <sub>4</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	10294-39-0	390.274	col cry			2.74	312 <sup>25</sup>	s MeOH; sl EtOH, ace; i eth
330	Barium permanganate	Ba(MnO <sub>4</sub> ) <sub>2</sub>	7787-36-2	375.198	brn-viol cry	200 dec		3.77	62.5 <sup>20</sup>	reac EtOH
331	Barium peroxide	BaO <sub>2</sub>	1304-29-6	169.326	gray-wh tetr cry	450 dec		4.96	0.091 <sup>20</sup>	reac dil acid
332	Barium plumbate	BaPbO <sub>3</sub>	12047-25-5	392.5	orth cry					
333	Barium potassium chromate	BaK <sub>2</sub> (CrO <sub>4</sub> ) <sub>2</sub>	27133-66-0	447.511	yel hex cry			3.63		vs H <sub>2</sub> O
334	Barium pyrophosphate	Ba <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	13466-21-2	448.597	wh powder	1430		3.9	0.0088 <sup>20</sup>	s acid
335	Barium selenate	BaSeO <sub>4</sub>	7787-41-9	280.29	wh rhomb cry	dec		4.75	0.015 <sup>20</sup>	
336	Barium selenide	BaSe	1304-39-8	216.29	cub cry powder	1780		5.02		reac H <sub>2</sub> O
337	Barium selenite	BaSeO <sub>3</sub>	13718-59-7	264.29	solid					i H <sub>2</sub> O
338	Barium silicide	BaSi <sub>2</sub>	1304-40-1	193.498	gray lumps	1180				reac H <sub>2</sub> O
339	Barium sodium niobate	Ba <sub>2</sub> Na(NbO <sub>3</sub> ) <sub>5</sub>	12323-03-4	1002.167	wh orth cry	1437		5.40		i H <sub>2</sub> O
340	Barium stannate	BaSnO <sub>3</sub>	12009-18-6	304.035	cub cry			7.24		sl H <sub>2</sub> O
341	Barium stannate trihydrate	BaSnO <sub>3</sub> · 3H <sub>2</sub> O	12009-18-6*	358.081	wh cry powder					sl H <sub>2</sub> O; s acid



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
342	Barium stearate	Ba(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	6865-35-6	704.266	wh powder	160		1.145		i H <sub>2</sub> O, EtOH
343	Barium strontium niobate	BaSr(NbO <sub>3</sub> ) <sub>4</sub>	37185-09-4	788.57	pale yel solid					
344	Barium strontium tungstate	Ba <sub>2</sub> SrWO <sub>6</sub>	14871-56-8	642.11	hyg pow	1400				
345	Barium sulfate	BaSO <sub>4</sub>	7727-43-7	233.390	wh orth cry	1580		4.49	0.00031 <sup>20</sup>	i EtOH
346	Barium sulfide	BaS	21109-95-5	169.392	col cub cry or gray powder	2227		4.3	8.94 <sup>25</sup>	
347	Barium sulfite	BaSO <sub>3</sub>	7787-39-5	217.390	wh monocl cry	dec		4.44	0.0011 <sup>25</sup>	i EtOH
348	Barium tartrate	BaC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	5908-81-6	285.398	wh cry			2.98		s H <sub>2</sub> O; i EtOH
349	Barium tetracyanoplatinate(II) tetrahydrate	BaPt(CN) <sub>4</sub> · 4H <sub>2</sub> O	13755-32-3	508.543	yel powder or cry			2.076		sl H <sub>2</sub> O; i EtOH
350	Barium tetraiodomercurate(II)	BaHgI <sub>4</sub>	10048-99-4	845.54	yel-red hyg cry					vs H <sub>2</sub> O, EtOH
351	Barium thiocyanate	Ba(SCN) <sub>2</sub>	2092-17-3	253.491	hyg cry				167 <sup>25</sup>	s ace, MeOH, EtOH
352	Barium thiocyanate dihydrate	Ba(SCN) <sub>2</sub> · 2H <sub>2</sub> O	2092-17-3*	289.522	hyg wh cry				167 <sup>25</sup>	s EtOH
353	Barium thiocyanate trihydrate	Ba(SCN) <sub>2</sub> · 3H <sub>2</sub> O	68016-36-4	307.537	wh needles; hyg			2.286	167 <sup>25</sup>	s EtOH
354	Barium thiosulfate	BaS <sub>2</sub> O <sub>3</sub>	35112-53-9	249.455	wh cry powder	220 dec			0.2 <sup>20</sup>	i EtOH
355	Barium thiosulfate monohydrate	BaS <sub>2</sub> O <sub>3</sub> · H <sub>2</sub> O	7787-40-8	267.471	wh cry powder	dec		3.5	0.2	i EtOH
356	Barium titanate (BaTiO <sub>3</sub> )	BaTiO <sub>3</sub>	12047-27-7	233.192	wh tetr cry	1625		6.02		i H <sub>2</sub> O
357	Barium titanate (BaTi <sub>2</sub> O <sub>9</sub> )	BaTi <sub>2</sub> O <sub>9</sub>	12009-27-7	313.058	wh solid					
358	Barium titanate (BaTi <sub>4</sub> O <sub>13</sub> )	BaTi <sub>4</sub> O <sub>13</sub>	12009-31-3	472.790	wh solid					
359	Barium titanium silicate	BaTi(SiO <sub>3</sub> ) <sub>3</sub>	15491-35-7	413.446	rhomb blue-pur cry					
360	Barium tungstate	BaWO <sub>4</sub>	7787-42-0	385.17	wh tetr cry	1475	1730	5.04	0.0016 <sup>20</sup>	
361	Barium uranium oxide	BaU <sub>2</sub> O <sub>7</sub>	10380-31-1	725.381	oran-yel powder					i H <sub>2</sub> O; s acid
362	Barium yttrium tungsten oxide	Ba <sub>3</sub> Y <sub>2</sub> WO <sub>9</sub>	37265-86-4	1006.53	cub cry	1470				
363	Barium zirconate	BaZrO <sub>3</sub>	12009-21-1	276.549	gray-wh cub cry	2500		5.52		i H <sub>2</sub> O, alk; sl acid
364	Barium zirconium silicate	BaO · ZrO <sub>2</sub> · SiO <sub>2</sub>		336.634	wh pow					
365	Berkelium (α form)	Bk	7440-40-6	247	hex cry	trans to · 930		14.78		
366	Berkelium (β form)	Bk	7440-40-6	247	cub cry	986		13.25		
367	Beryllium	Be	7440-41-7	9.012	hex cry	1287	2471	1.85		s acid, alk
368	Beryllium acetate	Be(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	543-81-7	127.101	wh cry	60 dec				i H <sub>2</sub> O, EtOH
369	Beryllium basic acetate	Be <sub>2</sub> O(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>5</sub>	1332-52-1	406.312	wh cry	285	330	1.25		i H <sub>2</sub> O; s eth, os
370	Beryllium aluminate	BeAl <sub>2</sub> O <sub>4</sub>	12004-06-7	126.973	orth cry			3.65		
371	Beryllium aluminum metasilicate	Be <sub>3</sub> Al <sub>2</sub> (SiO <sub>3</sub> ) <sub>6</sub>	1302-52-9	537.502	col or grn-yel cry; hex			2.64		
372	Beryllium boride (BeB <sub>2</sub> )	BeB <sub>2</sub>	12228-40-9	30.634	refrac solid	>1970				
373	Beryllium boride (BeB <sub>3</sub> )	BeB <sub>3</sub>	12429-94-6	73.878	red solid	2070				
374	Beryllium boride (Be <sub>2</sub> B)	Be <sub>2</sub> B	12536-51-5	28.835	pink cry	1520				
375	Beryllium boride (Be <sub>3</sub> B)	Be <sub>3</sub> B	12536-52-6	46.860	refrac solid	1160				
376	Beryllium borohydride	Be(BH <sub>4</sub> ) <sub>2</sub>	17440-85-6	36.682	solid	125 dec	subl			reac H <sub>2</sub> O
377	Beryllium bromide	BeBr <sub>2</sub>	7787-46-4	168.820	orth cry; hyg	508	473 sp	3.465		vs H <sub>2</sub> O; s EtOH, pyr
378	Beryllium carbide	Be <sub>2</sub> C	506-66-1	30.035	red cub cry	2127		1.90		reac H <sub>2</sub> O
379	Beryllium carbonate tetrahydrate	BeCO <sub>3</sub> · 4H <sub>2</sub> O	60883-64-9	93.085	wh solid	100 dec			0.36 <sup>9</sup>	
380	Beryllium basic carbonate	Be <sub>3</sub> (OH) <sub>2</sub> (CO <sub>3</sub> ) <sub>2</sub>	66104-24-3	181.069	wh powder					i H <sub>2</sub> O; s acid, alk
381	Beryllium chloride	BeCl <sub>2</sub>	7787-47-5	79.918	wh-yel orth cry; hyg	415	482	1.90	71.5 <sup>25</sup>	s EtOH, eth, py; i bz, tol
382	Beryllium fluoride	BeF <sub>2</sub>	7787-49-7	47.009	tetr cry or gl; hyg	552	1283	2.1		vs H <sub>2</sub> O; sl EtOH
383	Beryllium formate	Be(CHO <sub>2</sub> ) <sub>2</sub>	1111-71-3	99.047	powder	>250 dec				reac H <sub>2</sub> O; i os
384	Beryllium hydride	BeH <sub>2</sub>	7787-52-2	11.028	wh amorp solid	250 dec		0.65		reac H <sub>2</sub> O; i eth, tol
385	Beryllium hydrogen phosphate	BeHPO <sub>4</sub>	13598-15-7	104.991	cry					i H <sub>2</sub> O
386	Beryllium hydroxide (α)	Be(OH) <sub>2</sub>	13327-32-7	43.027	wh powder or cry	≈200 dec		1.92		sl H <sub>2</sub> O, alk; s acid
387	Beryllium hydroxide (β)	Be(OH) <sub>2</sub>	13327-32-7	43.027	col tetr cry	dec 138				i H <sub>2</sub> O; s, acid, alk
388	Beryllium iodide	BeI <sub>2</sub>	7787-53-3	262.821	hyg needles	480	590	4.32		reac H <sub>2</sub> O; s EtOH
389	Beryllium nitrate trihydrate	Be(NO <sub>3</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	13597-99-4	187.068	yel-wh hyg cry	≈30	dec		107 <sup>20</sup>	s EtOH
390	Beryllium nitride	Be <sub>3</sub> N <sub>2</sub>	1304-54-7	55.050	gray refrac cry; cub	2200		2.71		reac acid, alk
391	Beryllium oxalate trihydrate	BeC <sub>2</sub> O <sub>4</sub> · 3H <sub>2</sub> O	15771-43-4	151.077	rhomb cry	dec 320				vs H <sub>2</sub> O
392	Beryllium oxide	BeO	1304-56-9	25.011	wh hex cry	2578		3.01		i H <sub>2</sub> O; sl acid, alk
393	Beryllium 2,4-pentanedioate	Be(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	10210-64-7	207.228	monocl cry powder	108	270	1.168		i H <sub>2</sub> O; vs EtOH, eth
394	Beryllium perchlorate tetrahydrate	Be(ClO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	7787-48-6	279.975	hyg cry	250 dec			198 <sup>25</sup>	
395	Beryllium selenate tetrahydrate	BeSeO <sub>4</sub> · 4H <sub>2</sub> O	10039-31-3	224.03	orth cry	100 dec		2.03		vs H <sub>2</sub> O
396	Beryllium sulfate	BeSO <sub>4</sub>	13510-49-1	105.075	col tetr cry; hyg	1127		2.5	41.3 <sup>25</sup>	
397	Beryllium sulfate dihydrate	BeSO <sub>4</sub> · 2H <sub>2</sub> O	14215-00-0	141.105	col cry	dec 92				
398	Beryllium sulfate tetrahydrate	BeSO <sub>4</sub> · 4H <sub>2</sub> O	7787-56-6	177.136	col tetr cry	≈100 dec		1.71	41.3 <sup>25</sup>	i EtOH
399	Beryllium sulfide	BeS	13598-22-6	41.077	col cub cry	dec		2.36		reac hot H <sub>2</sub> O
400	Bismuth	Bi	7440-69-9	208.980	gray-wh soft metal	271.406	1564	9.79		s acid
401	Bismuth acetate	Bi(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	22306-37-2	386.111	col tablets	250				i H <sub>2</sub> O
402	Bismuth subacetate	BiOC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	5142-76-7	284.023	thin cry plates					i H <sub>2</sub> O; s dil acid
403	Bismuth antimonide	BiSb	12323-19-2	330.740	cry	475				

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
404	Bismuth arsenate	BiAsO <sub>4</sub>	13702-38-0	347.900	wh monoc cry			7.14		i H <sub>2</sub> O; sl conc HNO <sub>3</sub>
405	Bismuth basic carbonate	(BiO) <sub>2</sub> CO <sub>3</sub>	5892-10-4	509.969	wh powder			6.86		i H <sub>2</sub> O; s acid
406	Bismuth basic dichromate	Bi <sub>2</sub> O <sub>3</sub> · 2CrO <sub>3</sub>		665.948	red-oran amorp pow					i H <sub>2</sub> O; s acid, alk
407	Bismuth citrate	BiC <sub>6</sub> H <sub>5</sub> O <sub>7</sub>	813-93-4	398.080	wh powder			3.458		i H <sub>2</sub> O; sl EtOH
408	Bismuth hydride	BiH <sub>3</sub>	18288-22-7	212.004	col gas; unstab	-67	≈17	8.665 g/L		
409	Bismuth hydroxide	Bi(OH) <sub>3</sub>	10361-43-0	260.002	wh-yel amorp powder			4.962		i H <sub>2</sub> O; s acid
410	Bismuth germanium oxide	2Bi <sub>2</sub> O <sub>3</sub> · 3GeO <sub>2</sub>	12233-56-6	1245.84	wh pow	1044				
411	Bismuth hexafluoro-2,4-pentanedioate	Bi(CF <sub>3</sub> COCHCOCF <sub>3</sub> ) <sub>3</sub>	142617-56-9	830.132	powder	96				
412	Bismuth molybdate	Bi <sub>2</sub> MoO <sub>6</sub>	13565-96-3	609.90	yel solid			9.32		
413	Bismuth molybdate	Bi <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub>	51898-99-8	897.77	monoc cry			5.95		
414	Bismuth nitrate pentahydrate	Bi(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	10035-06-0	485.071	col tric cry; hyg	≈75 dec		2.83		reac H <sub>2</sub> O; s ace; i EtOH
415	Bismuth subnitrate	Bi <sub>3</sub> O(OH) <sub>5</sub> (NO <sub>3</sub> ) <sub>4</sub>	1304-85-4	1461.987	hyg cry powder	260 dec		4.928		i H <sub>2</sub> O, EtOH; s dil acid
416	Bismuth oleate	Bi(C <sub>18</sub> H <sub>33</sub> O <sub>2</sub> ) <sub>3</sub>	52951-38-9	1053.340	soft yel-brn solid					i H <sub>2</sub> O; s eth; sl bz
417	Bismuth oxalate	Bi <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>	6591-55-5	682.018	wh powder					i H <sub>2</sub> O, EtOH; s dil acid
418	Bismuth oxide	Bi <sub>2</sub> O <sub>3</sub>	1304-76-3	465.959	yel monoc cry or powder	825	1890	8.9		i H <sub>2</sub> O; s acid
419	Bismuth tetroxide	Bi <sub>2</sub> O <sub>4</sub>	12048-50-9	481.959	red-oran powder	305		5.6		reac H <sub>2</sub> O
420	Bismuth oxybromide	BiOBr	7787-57-7	304.883	col tetr cry	560 dec		8.08		i H <sub>2</sub> O, EtOH; s acid
421	Bismuth oxychloride	BiOCl	7787-59-9	260.432	wh tetr cry	575 dec		7.72		i H <sub>2</sub> O
422	Bismuth oxyiodide	BiOI	7787-63-5	351.883	red tetr cry	300 dec		7.92		i H <sub>2</sub> O, EtOH, chl; s HCl
423	Bismuth oxynitrate	BiONO <sub>3</sub>	10361-46-3	286.985	wh powder	260 dec		4.93		i H <sub>2</sub> O, EtOH; s acid
424	Bismuth phosphate	BiPO <sub>4</sub>	10049-01-1	303.951	monoc cry			6.32		sl H <sub>2</sub> O, dil acid; i EtOH
425	Bismuth potassium iodide	BiK <sub>4</sub> I <sub>7</sub>	41944-01-8	1253.704	red cry					reac H <sub>2</sub> O; s alk iodide soln
426	Bismuth selenide	Bi <sub>2</sub> Se <sub>3</sub>	12068-69-8	654.84	blk hex cry	710 dec		7.5		i H <sub>2</sub> O
427	Bismuth stannate pentahydrate	Bi <sub>2</sub> (SnO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	12777-45-6	1008.162	wh cry					i H <sub>2</sub> O
428	Bismuth sulfate	Bi <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	7787-68-0	706.149	wh needles or powder	405 dec		5.08		reac H <sub>2</sub> O, EtOH
429	Bismuth sulfide	Bi <sub>2</sub> S <sub>3</sub>	1345-07-9	514.156	blk-brn orth cry	850		6.78		i H <sub>2</sub> O; s acid
430	Bismuth telluride	Bi <sub>2</sub> Te <sub>3</sub>	1304-82-1	800.76	gray hex plates	580		7.74		i H <sub>2</sub> O; s EtOH
431	Bismuth tribromide	BiBr <sub>3</sub>	7787-58-8	448.692	yel cub cry	219	462	5.72		reac H <sub>2</sub> O; s dil acid, ace; i EtOH
432	Bismuth trichloride	BiCl <sub>3</sub>	7787-60-2	315.339	col or yel cub cry; hyg	234	441	4.75		reac H <sub>2</sub> O; s acid, EtOH, ace
433	Bismuth trifluoride	BiF <sub>3</sub>	7787-61-3	265.975	wh-gray cub cry	727	900	8.3		i H <sub>2</sub> O
434	Bismuth pentafluoride	BiF <sub>5</sub>	7787-62-4	303.972	wh tetr needles; hyg	151.4	230	5.55		reac H <sub>2</sub> O
435	Bismuth triiodide	BiI <sub>3</sub>	7787-64-6	589.693	blk-brn hex cry	408.6	542	5.778	0.00078 <sup>20</sup>	s EtOH
436	Bismuth trimethyl	Bi(CH <sub>3</sub> ) <sub>3</sub>	593-91-9	254.083	col flam liq	-86	110	2.3		
437	Bismuth titanate	Bi <sub>2</sub> (TiO <sub>4</sub> ) <sub>3</sub>	12048-51-0	1171.516	wh orth cry			7.85		
438	Bismuth tungstate	Bi <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub>	13595-87-4	1161.47	wh powder					
439	Bismuth vanadate	BiVO <sub>4</sub>	14059-33-7	323.920	orth cry	trans 500		6.25		i H <sub>2</sub> O; s acid
440	Bismuth zirconate	2Bi <sub>2</sub> O <sub>3</sub> · 3ZrO <sub>2</sub>	37306-42-6	1301.587	wh pow					
441	Boron	B	7440-42-8	10.811	blk rhomb cry	2075	4000	2.34		i H <sub>2</sub> O
442	Diborane	B <sub>2</sub> H <sub>6</sub>	19287-45-7	27.670	col gas; flam	-164.85	-92.49	1.131 g/L		reac H <sub>2</sub> O
443	Tetraborane(10)	B <sub>4</sub> H <sub>10</sub>	18283-93-7	53.323	unstab col gas	-120	18	2.180 g/L		reac H <sub>2</sub> O
444	Pentaborane(9)	B <sub>5</sub> H <sub>9</sub>	19624-22-7	63.126	flam col liq	-46.74	60.10	0.60		reac hot H <sub>2</sub> O
445	Pentaborane(11)	B <sub>5</sub> H <sub>11</sub>	18433-84-6	65.142	col liq; unstab	-122	65			reac H <sub>2</sub> O
446	Hexaborane(10)	B <sub>6</sub> H <sub>10</sub>	23777-80-2	74.945	col liq	-62.3	108 dec	0.67		reac hot H <sub>2</sub> O
447	Hexaborane(12)	B <sub>6</sub> H <sub>12</sub>	12008-19-4	76.961	col liq	-82.3	≈85			reac H <sub>2</sub> O
448	Nonaborane(15)	B <sub>9</sub> H <sub>15</sub>	19465-30-6	112.418	col liq	2.7				
449	Decaborane(14)	B <sub>10</sub> H <sub>14</sub>	17702-41-9	122.221	wh orth cry	98.78	213	0.94		sl H <sub>2</sub> O; s EtOH, bz, CS <sub>2</sub> , etc
450	Decaborane(16)	B <sub>10</sub> H <sub>16</sub>	71595-75-0	124.237	col cry	≈81	dec 170	subl		
451	Dodecaborane(16)	B <sub>12</sub> H <sub>16</sub>	89711-39-7	145.859	col cry	65				s bz, hx
452	Tridecaborane(19)	B <sub>13</sub> H <sub>19</sub>	43093-20-5	159.694	yel cry	44				s hx, CH <sub>2</sub> Cl <sub>2</sub>
453	Tetradecaborane(18)	B <sub>14</sub> H <sub>18</sub>	55606-55-8	169.497	visc yel oil		dec 100			s cyhex, CS <sub>2</sub>
454	Hexadecaborane(20)	B <sub>16</sub> H <sub>20</sub>	28265-11-4	193.135	col cry	≈110				s ctc, cyhex, thf
455	Octadecaborane(22)	B <sub>18</sub> H <sub>22</sub>	11071-61-7	216.773	yel cry	180				s os
456	Tetrabromodiborane	B <sub>2</sub> Br <sub>4</sub>	14355-29-4	341.238	col liq	≈1	dec 20			
457	Tetrachlorodiborane	B <sub>2</sub> Cl <sub>4</sub>	13701-67-2	163.434	col liq; flam	-92.6	66.5			reac H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
458	Tetrafluorodiborane	B <sub>2</sub> F <sub>4</sub>	13965-73-6	97.616	col gas; flam	-56	-34.0	3.990 g/L		reac H <sub>2</sub> O
459	Borane carbonyl	BH <sub>3</sub> CO	13205-44-2	41.845	col gas	-137	-64	1.710 g/L		reac H <sub>2</sub> O
460	Borazine	B <sub>3</sub> N <sub>3</sub> H <sub>6</sub>	6569-51-3	80.501	col liq	-58	53	0.824		reac H <sub>2</sub> O
461	Boric acid	H <sub>3</sub> BO <sub>3</sub>	10043-35-3	61.833	col tricr cry	170.9		1.5	5.80 <sup>25</sup>	sl EtOH
462	Metaboric acid (α form)	HBO <sub>2</sub>	13460-50-9	43.818	col orth cry; hyg	176		1.784		s H <sub>2</sub> O
463	Metaboric acid (β form)	HBO <sub>2</sub>	13460-50-9	43.818	col monocry; hyg	201		2.045		s H <sub>2</sub> O
464	Metaboric acid (γ form)	HBO <sub>2</sub>	13460-50-9	43.818	col cub cry	236		2.487		s H <sub>2</sub> O
465	Tetrafluoroboric acid	HF <sub>4</sub> B	16872-11-0	87.813	col liq		130 dec	≈1.8		vs H <sub>2</sub> O, EtOH
466	Boron arsenide	BAs	12005-69-5	85.733	brn cub cry	1100 dec		5.22		
467	Boron carbide	B <sub>4</sub> C	12069-32-8	55.255	hard blk cry	2350	>3500	2.50		i H <sub>2</sub> O, acid
468	Boron nitride	BN	10043-11-5	24.818	wh powder; hex or cub cry	2967		2.18		i H <sub>2</sub> O, acid
469	Boron oxide	B <sub>2</sub> O <sub>3</sub>	1303-86-2	69.620	col gl or hex cry; hyg	450		2.55	2.2 <sup>20</sup>	s EtOH
470	Boron phosphide	BP	20205-91-8	41.785	red cub cry or powder	1125 dec				reac H <sub>2</sub> O, acid
471	Boron silicide	B <sub>6</sub> Si	12008-29-6	92.952	blk cry	1980				
472	Boron sulfide	B <sub>2</sub> S <sub>3</sub>	12007-33-9	117.817	yel amorp solid	563		≈1.7		
473	Boron tribromide	BBr <sub>3</sub>	10294-33-4	250.523	col liq; hyg	-46	91.3	2.6		reac H <sub>2</sub> O, EtOH
474	Boron trichloride	BCl <sub>3</sub>	10294-34-5	117.170	col liq or gas	-107.3	12.5	4.789 g/L		reac H <sub>2</sub> O, EtOH
475	Boron trifluoride	BF <sub>3</sub>	7637-07-2	67.806	col gas	-126.8	-99.9	2.772 g/L		s H <sub>2</sub> O
476	Boron trifluoride etherate	BF <sub>3</sub> (C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> O	109-63-7	141.927	liq	-60.4	125.5	1.125 <sup>25</sup>		reac H <sub>2</sub> O; vs eth, EtOH
477	Boron triiodide	BI <sub>3</sub>	13517-10-7	391.524	wh needles	49.7	209.5	3.35		i H <sub>2</sub> O
478	Bromine	Br <sub>2</sub>	7726-95-6	159.808	red liq	-7.2	58.8	3.1028		sl H <sub>2</sub> O
479	Bromic acid	HBrO <sub>3</sub>	7789-31-3	128.910	stab only in aq soln					s H <sub>2</sub> O
480	Hypobromous acid	HOBr	13517-11-8	96.911	exists aq soln					s H <sub>2</sub> O
481	Bromine dioxide	BrO <sub>2</sub>	21255-83-4	111.903	unstab yel cry	≈0 dec				
482	Bromine monoxide	Br <sub>2</sub> O	21308-80-5	175.807	unstab brn solid	-17.5 dec				
483	Dibromine trioxide	Br <sub>2</sub> O <sub>3</sub>	53809-75-9	207.806	oran needles (LT)	dec -40				
484	Dibromine pentoxide	Br <sub>2</sub> O <sub>5</sub>	58572-43-3	239.805	col cry (low temp)	-20 dec				
485	Bromine azide	BrN <sub>3</sub>	13973-87-0	121.924	red cry; exp	≈45	exp			
486	Bromine chloride	BrCl	13863-41-7	115.357	dark red liq (<5°C)	-66	5 dec			reac H <sub>2</sub> O; s eth, CS <sub>2</sub>
487	Bromine fluoride	BrF	13863-59-7	98.902	unstab red-brn gas	≈-33	≈20 dec	4.043 g/L		
488	Bromine trifluoride	BrF <sub>3</sub>	7787-71-5	136.899	col hyg liq	8.77	125.8	2.803		reac H <sub>2</sub> O
489	Bromine pentafluoride	BrF <sub>5</sub>	7789-30-2	174.896	col liq	-60.5	41.3	2.460		reac H <sub>2</sub> O (exp)
490	Bromosyl trifluoride	BrOF <sub>3</sub>	61519-37-7	152.898	col liq	-5	dec >20			reac H <sub>2</sub> O
491	Bromyl fluoride	BrO <sub>2</sub> F	22585-64-4	130.901	col liq	-9	dec 55			reac H <sub>2</sub> O
492	Perbromyl fluoride	BrO <sub>3</sub> F	37265-91-1	146.900	col gas	-110	dec 20			reac H <sub>2</sub> O
493	Cadmium	Cd	7440-43-9	112.411	silv-wh metal	321.069	767	8.69		i H <sub>2</sub> O; reac acid
494	Cadmium acetate	Cd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	543-90-8	230.500	col cry	255		2.34		s H <sub>2</sub> O, EtOH
495	Cadmium acetate dihydrate	Cd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	5743-04-4	266.529	wh cry	130 dec		2.01		vs H <sub>2</sub> O; s EtOH
496	Cadmium antimonide	CdSb	12014-29-8	234.171	orth cry	456		6.92		
497	Cadmium arsenide	Cd <sub>3</sub> As <sub>2</sub>	12006-15-4	487.076	gray tetr cry	721		6.25		
498	Cadmium azide	Cd(N <sub>3</sub> ) <sub>2</sub>	14215-29-3	196.451	yel-wh orth cry; exp	exp		3.24		
499	Cadmium borotungstate octadecahydrate	Cd <sub>3</sub> (BW <sub>12</sub> O <sub>40</sub> ) · 18H <sub>2</sub> O	1306-26-9	3743.20	yel cry					vs H <sub>2</sub> O
500	Cadmium bromide	CdBr <sub>2</sub>	7789-42-6	272.219	wh-yel hex cry; hyg	568	863	5.19	115 <sup>25</sup>	sl ace, eth
501	Cadmium bromide tetrahydrate	CdBr <sub>2</sub> · 4H <sub>2</sub> O	13464-92-1	344.281	wh-yel cry				115 <sup>25</sup>	s ace, EtOH
502	Cadmium carbonate	CdCO <sub>3</sub>	513-78-0	172.420	wh hex cry	500 dec		5.026		i H <sub>2</sub> O; s acid
503	Cadmium chlorate dihydrate	Cd(ClO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	22750-54-5*	315.344	col hyg cry	80 dec		2.28	2.64 <sup>0</sup>	
504	Cadmium chloride	CdCl <sub>2</sub>	10108-64-2	183.317	rhomb cry; hyg	568	964	4.08	120 <sup>25</sup>	s ace; sl EtOH; i eth
505	Cadmium chloride monohydrate	CdCl <sub>2</sub> · H <sub>2</sub> O	34330-64-8	201.332	wh cry				120 <sup>25</sup>	
506	Cadmium chloride hemipentahydrate	CdCl <sub>2</sub> · 2.5H <sub>2</sub> O	7790-78-5	228.354	wh rhomb leaflets			3.327	120 <sup>25</sup>	s ace
507	Cadmium chromate	CdCrO <sub>4</sub>	14312-00-6	228.405	yel orth cry			4.5		i H <sub>2</sub> O
508	Cadmium cyanide	Cd(CN) <sub>2</sub>	542-83-6	164.445	wh cub cry			2.23	1.7 <sup>15</sup>	
509	Cadmium dichromate monohydrate	CdCr <sub>2</sub> O <sub>7</sub> · H <sub>2</sub> O	69239-51-6	346.414	oran solid					s H <sub>2</sub> O
510	Cadmium 2-ethylhexanoate	Cd(C <sub>8</sub> H <sub>15</sub> O <sub>2</sub> ) <sub>2</sub>	2420-98-6	398.818	powder					
511	Cadmium fluoride	CdF <sub>2</sub>	7790-79-6	150.408	cub cry	1075	1750	6.33	4.36 <sup>25</sup>	s acid; i EtOH
512	Cadmium hydroxide	Cd(OH) <sub>2</sub>	21041-95-2	146.426	wh trig or hex cry	130 dec		4.79	0.00015 <sup>20</sup>	s dil acid
513	Cadmium iodate	Cd(IO <sub>3</sub> ) <sub>2</sub>	7790-81-0	462.216	wh powder			6.48	0.091 <sup>25</sup>	s HNO <sub>3</sub>

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
514	Cadmium iodide	CdI <sub>2</sub>	7790-80-9	366.220	col hex flakes	388	744	5.64	86.2 <sup>25</sup>	vs H <sub>2</sub> O; s EtOH, eth, ace
515	Cadmium metasilicate	CdSiO <sub>3</sub>	13477-19-5	188.495	grn monoc cry	1252		5.10		
516	Cadmium molybdate	CdMoO <sub>4</sub>	13972-68-4	272.35	col tetr cry	≈900 dec		5.4		i H <sub>2</sub> O; s acid
517	Cadmium niobate	Cd <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub>	12187-14-3	522.631	cub cry	≈1410		6.28		i H <sub>2</sub> O
518	Cadmium nitrate	Cd(NO <sub>3</sub> ) <sub>2</sub>	10325-94-7	236.420	wh cub cry; hyg	360		3.6	156 <sup>25</sup>	s EtOH
519	Cadmium nitrate tetrahydrate	Cd(NO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	10022-68-1	308.482	col orth cry; hyg	59.5		2.45	156 <sup>25</sup>	s EtOH, ace
520	Cadmium oxalate	CdC <sub>2</sub> O <sub>4</sub>	814-88-0	200.430	wh solid			3.32	0.0060 <sup>25</sup>	
521	Cadmium oxalate trihydrate	CdC <sub>2</sub> O <sub>4</sub> · 3H <sub>2</sub> O	20712-42-9	254.476	wh amorp powder	340 dec			0.0060 <sup>25</sup>	i EtOH; s dil acid
522	Cadmium oxide	CdO	1306-19-0	128.410	brn cub cry		1559 sp	8.15		i H <sub>2</sub> O; s dil acid
523	Cadmium 2,4-pentanedioate	Cd(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	14689-45-3	310.627	wh solid or red cry	235				
524	Cadmium perchlorate hexahydrate	Cd(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10326-28-0	419.404	wh hex cry			2.37	191.5 <sup>25</sup>	
525	Cadmium phosphate	Cd <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	13477-17-3	527.176	powder	≈1500				i H <sub>2</sub> O
526	Cadmium phosphide	Cd <sub>3</sub> P <sub>2</sub>	12014-28-7	399.181	grn tetr needles	700		5.96		s dil HCl
527	Cadmium selenate dihydrate	CdSeO <sub>4</sub> · 2H <sub>2</sub> O	10060-09-0	291.40	orth cry	100 dec		3.62	70.5 <sup>25</sup>	
528	Cadmium selenide	CdSe	1306-24-7	191.37	wh cub cry	1240		5.81		i H <sub>2</sub> O
529	Cadmium selenite	CdSeO <sub>3</sub>	13814-59-0	239.37	col prisms					
530	Cadmium stearate	Cd(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	2223-93-0	679.350	wh cry pow	134		1.21		
531	Cadmium succinate	CdC <sub>4</sub> H <sub>4</sub> O <sub>4</sub>	141-00-4	228.484	wh pow or needles				0.37 <sup>40</sup>	sl H <sub>2</sub> O; i EtOH
532	Cadmium sulfate	CdSO <sub>4</sub>	10124-36-4	208.474	col orth cry	1000		4.69	76.7 <sup>25</sup>	i EtOH
533	Cadmium sulfate monohydrate	CdSO <sub>4</sub> · H <sub>2</sub> O	7790-84-3	226.489	monoc cry	105		3.79	76.7 <sup>25</sup>	
534	Cadmium sulfate octahydrate	CdSO <sub>4</sub> · 8H <sub>2</sub> O	15244-35-6	352.596	col monoc cry	40 dec		3.08	76.7 <sup>25</sup>	
535	Cadmium sulfide	CdS	1306-23-6	144.476	yel-oran hex cry	≈1480		4.826		i H <sub>2</sub> O; s acid
536	Cadmium sulfite	CdSO <sub>3</sub>	13477-23-1	192.474	col prisms	dec ≈400			0.05 <sup>20</sup>	sl H <sub>2</sub> O
537	Cadmium telluride	CdTe	1306-25-8	240.01	brn-blk cub cry	1042		6.2		i H <sub>2</sub> O, dil acid
538	Cadmium tellurite	CdTeO <sub>3</sub>	15851-44-2	288.01	col monoc cry	695	dec 1050			
539	Cadmium tetrafluoroborate	Cd(BF <sub>4</sub> ) <sub>2</sub>	14486-19-2	286.020	col hyg liq			1.6		vs H <sub>2</sub> O, EtOH
540	Cadmium titanate	CdTiO <sub>3</sub>	12014-14-1	208.276	orth cry			6.5		
541	Cadmium tungstate	CdWO <sub>4</sub>	7790-85-4	360.25	wh monoc cry			8.0		i H <sub>2</sub> O, acid; s NH <sub>4</sub> OH
542	Calcium	Ca	7440-70-2	40.078	silv-wh metal	842	1484	1.54		reac H <sub>2</sub> O; i bz
543	Calcium acetate	Ca(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	62-54-4	158.167	wh hyg cry	160 dec		1.50		s H <sub>2</sub> O; sl EtOH
544	Calcium acetate monohydrate	Ca(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	5743-26-0	176.182	wh needles or powder	≈150 dec				s H <sub>2</sub> O; sl EtOH
545	Calcium acetate dihydrate	Ca(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	14977-17-4	194.196	long col needles					s H <sub>2</sub> O
546	Calcium aluminate	CaAl <sub>2</sub> O <sub>4</sub>	12042-68-1	158.039	wh monoc cry	1605		2.98		reac H <sub>2</sub> O
547	Calcium aluminate (β form)	Ca <sub>2</sub> Al <sub>2</sub> O <sub>6</sub>	12042-78-3	270.193	wh cub cry; refr	1535		3.04		i H <sub>2</sub> O
548	Calcium arsenate	Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	7778-44-1	398.072	wh powder	dec		3.6	0.0036 <sup>20</sup>	s dil acid
549	Calcium arsenite (1:1)	CaAsO <sub>3</sub>	52740-16-6	162.998	wh powder					sl H <sub>2</sub> O; s acid
550	Calcium borate hexahydrate	CaB <sub>2</sub> O <sub>7</sub> · 6H <sub>2</sub> O	13701-64-9*	303.409	wh cry pow	1162 (anh)				
551	Calcium boride	CaB <sub>6</sub>	12007-99-7	104.944	refrac solid	2235		2.49		
552	Calcium bromate	Ca(BrO <sub>3</sub> ) <sub>2</sub>	10102-75-7	295.882	wh pow	180				
553	Calcium bromate monohydrate	Ca(BrO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	10102-75-7*	313.898	wh monoc cry	dec 180		3.33		vs H <sub>2</sub> O
554	Calcium bromide	CaBr <sub>2</sub>	7789-41-5	199.886	rhomb cry; hyg	742	1815	3.38	156 <sup>25</sup>	s EtOH, ace
555	Calcium bromide dihydrate	CaBr <sub>2</sub> · 2H <sub>2</sub> O	22208-73-7	235.917	wh cry pow					vs H <sub>2</sub> O
556	Calcium bromide hexahydrate	CaBr <sub>2</sub> · 6H <sub>2</sub> O	13477-28-6	307.977	wh hyg powder	38 dec		2.29	156 <sup>25</sup>	
557	Calcium carbide	CaC <sub>2</sub>	75-20-7	64.099	gray-blk orth cry	2300		2.22		reac H <sub>2</sub> O
558	Calcium carbonate (aragonite)	CaCO <sub>3</sub>	471-34-1	100.087	wh orth cry or powder	825 dec		2.930	0.00066 <sup>20</sup>	s dil acid
559	Calcium carbonate (calcite)	CaCO <sub>3</sub>	471-34-1	100.087	wh hex cry or powder	1330		2.710	0.00066 <sup>20</sup>	s dil acid
560	Calcium carbonate (vaterite)	CaCO <sub>3</sub>	471-34-1	100.087	col hex cry			2.653	0.0011 <sup>25</sup>	s dil acid
561	Calcium chlorate	Ca(ClO <sub>3</sub> ) <sub>2</sub>	10137-74-3	206.980	wh cry	340			197 <sup>25</sup>	
562	Calcium chlorate dihydrate	Ca(ClO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	10035-05-9	243.011	wh monoc cry; hyg	100 dec		2.711	197 <sup>25</sup>	s EtOH
563	Calcium chloride	CaCl <sub>2</sub>	10043-52-4	110.984	wh cub cry or powder; hyg	775	1935	2.15	81.3 <sup>25</sup>	vs EtOH
564	Calcium chloride monohydrate	CaCl <sub>2</sub> · H <sub>2</sub> O	13477-29-7	128.999	wh hyg cry	260 dec		2.24	81.3 <sup>25</sup>	s EtOH
565	Calcium chloride dihydrate	CaCl <sub>2</sub> · 2H <sub>2</sub> O	10035-04-8	147.015	hyg flakes or powder	175 dec		1.85	81.3 <sup>25</sup>	vs EtOH
566	Calcium chloride tetrahydrate	CaCl <sub>2</sub> · 4H <sub>2</sub> O	25094-02-4	183.046	col tric cry			1.83		
567	Calcium chloride hexahydrate	CaCl <sub>2</sub> · 6H <sub>2</sub> O	7774-34-7	219.075	wh hex cry; hyg	30 dec		1.71	81.3 <sup>25</sup>	
568	Calcium chlorite	Ca(ClO <sub>2</sub> ) <sub>2</sub>	14674-72-7	174.982	wh cub cry			2.71		reac H <sub>2</sub> O
569	Calcium chromate	CaCrO <sub>4</sub>	13765-19-0	156.072	yel cry	1000 dec				sl H <sub>2</sub> O; i EtOH, ace
570	Calcium chromate dihydrate	CaCrO <sub>4</sub> · 2H <sub>2</sub> O	10060-08-9	192.102	yel orth cry	dec 200		2.50	13.2 <sup>20</sup>	s dil acids
571	Calcium citrate tetrahydrate	Ca <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	5785-44-4	570.494	wh needles or pow	dec 100			0.096 <sup>23</sup>	i eth
572	Calcium cyanamide	CaCN <sub>2</sub>	156-62-7	80.102	col hex cry	≈1340	subl	2.29		reac H <sub>2</sub> O
573	Calcium cyanide	Ca(CN) <sub>2</sub>	592-01-8	92.112	wh rhomb cry; hyg					s H <sub>2</sub> O, EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
574	Calcium dichromate trihydrate	CaCr <sub>2</sub> O <sub>7</sub> · 3H <sub>2</sub> O	14307-33-6*	310.112	red-oran cry	100 dec		2.37		vs H <sub>2</sub> O; reac EtOH; i eth, ctc
575	Calcium dihydrogen phosphate monohydrate	Ca(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> · H <sub>2</sub> O	10031-30-8	252.068	col tricl plates	100 dec		2.220		sl H <sub>2</sub> O; s dil acid
576	Calcium 2-ethylhexanoate	Ca(C <sub>8</sub> H <sub>16</sub> O <sub>2</sub> ) <sub>2</sub>	136-51-6	326.485	powder					
577	Calcium ferrocyanide dodecahydrate	Ca <sub>2</sub> Fe(CN) <sub>6</sub> · 12H <sub>2</sub> O		508.289	yel tricl cry	dec		1.68	87 <sup>25</sup>	vs H <sub>2</sub> O; i EtOH
578	Calcium fluoride	CaF <sub>2</sub>	7789-75-5	78.075	wh cub cry or powder	1418	2500	3.18	0.0016 <sup>25</sup>	sl acid
579	Calcium fluorophosphate	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> F	12015-73-5	504.302	col hex cry	1650		3.201		i H <sub>2</sub> O
580	Calcium fluorophosphate dihydrate	CaPO <sub>3</sub> F · 2H <sub>2</sub> O	37809-19-1	174.079	col monocl cry				0.42 <sup>27</sup>	i os
581	Calcium formate	Ca(CHO <sub>2</sub> ) <sub>2</sub>	544-17-2	130.113	orth cry	300 dec		2.02	16.6 <sup>20</sup>	i EtOH
582	Calcium hexaborate pentahydrate	2CaO · 3B <sub>2</sub> O <sub>3</sub> · 5H <sub>2</sub> O	12291-65-5	411.091	col monocl cry	dec 375 (exp)		2.42	1 <sup>25</sup>	sl acid
583	Calcium hexafluoro-2,4-pentanedioate	Ca(CF <sub>3</sub> COCHCOCF <sub>3</sub> ) <sub>2</sub>	121012-90-6	454.180	powder	135				
584	Calcium hexafluorosilicate dihydrate	CaSiF <sub>6</sub> · 2H <sub>2</sub> O	16925-39-6	218.185	col tetr cry			2.25	0.52 <sup>20</sup>	i ace; reac hot H <sub>2</sub> O
585	Calcium hydride	CaH <sub>2</sub>	7789-78-8	42.094	gray orth cry or powder	1000		1.7		reac H <sub>2</sub> O, EtOH
586	Calcium hydrogen phosphate	CaHPO <sub>4</sub>	7757-93-9	136.057	wh tricl cry	dec		2.92	0.02 <sup>25</sup>	i EtOH
587	Calcium hydrogen phosphate dihydrate	CaHPO <sub>4</sub> · 2H <sub>2</sub> O	7789-77-7	172.088	monocl cry	≈100 dec		2.31	0.02 <sup>25</sup>	i EtOH; s dil acid
588	Calcium hydrogen sulfite	CaH <sub>2</sub> (SO <sub>3</sub> ) <sub>2</sub>	13780-03-5	202.220				1.06		s H <sub>2</sub> O
589	Calcium hydrosulfide hexahydrate	Ca(HS) <sub>2</sub> · 6H <sub>2</sub> O		214.315	col cry	dec				s H <sub>2</sub> O, EtOH
590	Calcium hydroxide	Ca(OH) <sub>2</sub>	1305-62-0	74.093	soft hex cry			≈2.2	0.160 <sup>20</sup>	s acid
591	Calcium hydroxide phosphate	Ca <sub>3</sub> (OH)(PO <sub>4</sub> ) <sub>3</sub>	12167-74-7	502.311	col hex cry	dec >900		3.155		i H <sub>2</sub> O
592	Calcium hypochlorite	Ca(OCl) <sub>2</sub>	7778-54-3	142.983	powder	100		2.350		
593	Calcium hypophosphite	Ca(H <sub>2</sub> PO <sub>2</sub> ) <sub>2</sub>	7789-79-9	170.055	wh monocl cry	300 dec				s H <sub>2</sub> O; i EtOH
594	Calcium iodate	Ca(IO <sub>3</sub> ) <sub>2</sub>	7789-80-2	389.883	wh monocl cry			4.52	0.306 <sup>25</sup>	s HNO <sub>3</sub> ; i EtOH
595	Calcium iodide	CaI <sub>2</sub>	10102-68-8	293.887	hyg hex cry	783	1100	3.96	215 <sup>25</sup>	s MeOH, EtOH, ace; i eth
596	Calcium iodide hexahydrate	CaI <sub>2</sub> · 6H <sub>2</sub> O	71626-98-7	401.978	wh hex needles or powder	42 dec		2.55	215 <sup>25</sup>	vs EtOH
597	Calcium metaborate	Ca(BO <sub>2</sub> ) <sub>2</sub>	13701-64-9	125.698	powder				0.13 <sup>20</sup>	
598	Calcium metasilicate	CaSiO <sub>3</sub>	1344-95-2	116.162	wh monocl cry	1540		2.92		i H <sub>2</sub> O
599	Calcium molybdate	CaMoO <sub>4</sub>	7789-82-4	200.02	wh tetr cry	1520		4.35	0.0011 <sup>20</sup>	i EtOH; s conc acid
600	Calcium nitrate	Ca(NO <sub>3</sub> ) <sub>2</sub>	10124-37-5	164.087	wh cub cry; hyg	561		2.5	144 <sup>25</sup>	s EtOH, MeOH, ace
601	Calcium nitrate tetrahydrate	Ca(NO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	13477-34-4	236.149	wh cry	≈40 dec		1.82	144 <sup>25</sup>	s EtOH, ace
602	Calcium nitride	Ca <sub>3</sub> N <sub>2</sub>	12013-82-0	148.247	red-brn cub cry	1195		2.67		s H <sub>2</sub> O, acid; i EtOH
603	Calcium nitrite	Ca(NO <sub>2</sub> ) <sub>2</sub>	13780-06-8	132.089	wh-yel hex cry; hyg	392		2.23	94.6 <sup>25</sup>	sl EtOH
604	Calcium nitrite monohydrate	Ca(NO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	10031-34-2	150.104	col or yel cry	dec 100				vs H <sub>2</sub> O; sl EtOH
605	Calcium oleate	Ca(C <sub>18</sub> H <sub>33</sub> O <sub>2</sub> ) <sub>2</sub>	142-17-6	602.985	pale yel solid	dec 140			0.04 <sup>25</sup>	sl H <sub>2</sub> O; s bz; i EtOH, ace, eth
606	Calcium oxalate	CaC <sub>2</sub> O <sub>4</sub>	563-72-4	128.097	wh cry powder			2.2	0.00061 <sup>20</sup>	
607	Calcium oxalate monohydrate	CaC <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	5794-28-5	146.112	cub cry	200 dec		2.2	0.00061 <sup>20</sup>	s dil acid
608	Calcium oxide	CaO	1305-78-8	56.077	gray-wh cub cry	2613		3.34		reac H <sub>2</sub> O; s acid
609	Calcium oxide silicate	Ca <sub>2</sub> OSiO <sub>4</sub>	12168-85-3	228.317	refrac solid	2150				
610	Calcium palmitate	Ca(C <sub>16</sub> H <sub>31</sub> O <sub>2</sub> ) <sub>2</sub>	542-42-7	550.910	wh-yel pow	dec 155				i H <sub>2</sub> O, EtOH, eth, ace; sl bz
611	Calcium perborate heptahydrate	Ca(BO <sub>2</sub> ) <sub>2</sub> · 7H <sub>2</sub> O		283.803	gray-wh pow					s H <sub>2</sub> O, acid
612	Calcium 2,4-pentanedioate	Ca(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	19372-44-2	238.294	cry	dec 175				
613	Calcium perchlorate	Ca(ClO <sub>4</sub> ) <sub>2</sub>	13477-36-6	238.979	wh cry	270 dec		2.65	188 <sup>25</sup>	s EtOH, MeOH
614	Calcium perchlorate tetrahydrate	Ca(ClO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	15627-86-8	311.041	wh cry					vs H <sub>2</sub> O
615	Calcium permanganate	Ca(MnO <sub>4</sub> ) <sub>2</sub>	10118-76-0	277.949	purp hyg cry			2.4	331 <sup>20</sup>	reac EtOH
616	Calcium peroxide	CaO <sub>2</sub>	1305-79-9	72.077	wh-yel tetr cry; hyg	≈200 dec		2.9		sl H <sub>2</sub> O; s acid
617	Calcium phosphate	Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7758-87-4	310.177	wh amorp powder	1670		3.14	0.00012 <sup>20</sup>	i EtOH; s dil acid
618	Calcium phosphide	Ca <sub>3</sub> P <sub>2</sub>	1305-99-3	182.182	red-brn hyg cry	≈1600		2.51		reac H <sub>2</sub> O; i EtOH, eth
619	Calcium phosphonate monohydrate	CaHPO <sub>3</sub> · H <sub>2</sub> O	25232-60-4	138.073	col monocl cry	dec 150				sl H <sub>2</sub> O; i EtOH
620	Calcium plumbate	Ca <sub>3</sub> PbO <sub>4</sub>	12013-69-3	351.4	oran-brn orth cry	dec		5.71		i H <sub>2</sub> O; s acid
621	Calcium propanoate	Ca(C <sub>3</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	4075-81-4	186.219	monocl cry, powder					s H <sub>2</sub> O; sl MeOH, EtOH; i ace, bz
622	Calcium pyrophosphate	Ca <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	7790-76-3	254.099	wh powder	1353		3.09		i H <sub>2</sub> O; s dil acid
623	Calcium selenate dihydrate	CaSeO <sub>4</sub> · 2H <sub>2</sub> O	7790-74-1	219.07	wh monocl cry			2.75	8.3 <sup>18</sup>	
624	Calcium selenide	CaSe	1305-84-6	119.04	wh-brn cub cry	1400 dec		3.8		reac H <sub>2</sub> O
625	Calcium silicide (CaSi)	CaSi	12013-55-7	68.164	orth cry	1324		2.39		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
626	Calcium silicide (CaSi <sub>2</sub> )	CaSi <sub>2</sub>	12013-56-8	96.249	gray hex cry	1040		2.50		i cold H <sub>2</sub> O; reac hot H <sub>2</sub> O; s acid
627	Calcium stannate trihydrate	CaSnO <sub>3</sub> · 3H <sub>2</sub> O	12013-46-6*	260.832	wh cry pow	dec ≈350				i H <sub>2</sub> O
628	Calcium stearate	Ca(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	1592-23-0	607.017	granular powder	180				i H <sub>2</sub> O, EtOH
629	Calcium succinate trihydrate	CaC <sub>4</sub> H <sub>4</sub> O <sub>4</sub> · 3H <sub>2</sub> O	140-99-8	210.196	needles					sl H <sub>2</sub> O; s dil acid; i EtOH
630	Calcium sulfate	CaSO <sub>4</sub>	7778-18-9	136.141	orth cry	1460		2.96	0.205 <sup>25</sup>	
631	Calcium sulfate hemihydrate	CaSO <sub>4</sub> · 0.5H <sub>2</sub> O	10034-76-1	145.149	wh powder				0.205 <sup>25</sup>	
632	Calcium sulfate dihydrate	CaSO <sub>4</sub> · 2H <sub>2</sub> O	10101-41-4	172.171	monocl cry or powder	150 dec		2.32	0.205 <sup>20</sup>	i os
633	Calcium sulfide	CaS	20548-54-3	72.143	wh-yel cub cry; hyg	2524		2.59		sl H <sub>2</sub> O; i EtOH
634	Calcium sulfite dihydrate	CaSO <sub>3</sub> · 2H <sub>2</sub> O	10257-55-3	156.172	wh powder				0.0070 <sup>25</sup>	sl EtOH; s acid
635	Calcium tartrate tetrahydrate	CaC <sub>4</sub> H <sub>4</sub> O <sub>6</sub> · 4H <sub>2</sub> O	3164-34-9*	260.210	wh pow				0.04 <sup>10</sup>	s dil acid; sl EtOH
636	Calcium telluride	CaTe	12013-57-9	167.68	wh cub cry	1600 dec		4.87		
637	Calcium tetrahydroaluminate	Ca(AlH <sub>4</sub> ) <sub>2</sub>	16941-10-9	102.105	gray powder; flam					reac H <sub>2</sub> O; s thf; i eth, bz
638	Calcium thiocyanate tetrahydrate	Ca(SCN) <sub>2</sub> · 4H <sub>2</sub> O	2092-16-2	228.304	hyg cry	160 dec				vs H <sub>2</sub> O; s EtOH, ace
639	Calcium thiosulfate hexahydrate	CaS <sub>2</sub> O <sub>3</sub> · 6H <sub>2</sub> O	10124-41-1	260.298	tricl cry	45 dec		1.87		s H <sub>2</sub> O; i EtOH
640	Calcium titanate	CaTiO <sub>3</sub>	12049-50-2	135.943	cub cry	1980		3.98		
641	Calcium tungstate	CaWO <sub>4</sub>	7790-75-2	287.92	wh tet cry	1620		6.06	0.2 <sup>18</sup>	s hot acid
642	Calcium zirconate	CaZrO <sub>3</sub>	12013-47-7	179.300	powder	2550				
643	Californium	Cf	7440-71-3	251	hex or cub metal	900		15.1		
644	Carbon (diamond)	C	7782-40-3	12.011	col cub cry	4440 (12.4 GPa)		3.513		i H <sub>2</sub> O
645	Carbon (graphite)	C	7782-42-5	12.011	soft blk hex cry	4489 tp (10.3 MPa)	3825 sp	2.2		i H <sub>2</sub> O
646	Carbon black	C	1333-86-4	12.011	fine blk pow					i H <sub>2</sub> O
647	Carbon (fullerene-C <sub>60</sub> )	C <sub>60</sub>	99685-96-8	720.642	yel needles or plates	>280				s os
648	Carbon (fullerene-C <sub>70</sub> )	C <sub>70</sub>	115383-22-7	840.749	red-brn solid	>280				s bz, tol
649	Fullerene fluoride	C <sub>60</sub> F <sub>60</sub>	134929-59-2	1860.546	col plates	287				vs ace; s thf; i chl
650	Carbon monoxide	CO	630-08-0	28.010	col gas	-205.02	-191.5	1.145 g/L		sl H <sub>2</sub> O; s chl, EtOH
651	Carbon dioxide	CO <sub>2</sub>	124-38-9	44.010	col gas	-56.558 tp	-78.464 sp	1.799 g/L		s H <sub>2</sub> O
652	Carbon suboxide	C <sub>3</sub> O <sub>2</sub>	504-64-3	68.031	col gas	-112.5	6.8	2.781 g/L		reac H <sub>2</sub> O
653	Carbon disulfide	CS <sub>2</sub>	75-15-0	76.141	col or yel liq	-112.1	46	1.2632 <sup>20</sup>		i H <sub>2</sub> O; vs EtOH, bz, os
654	Carbon subsulfide	C <sub>3</sub> S <sub>2</sub>	627-34-9	100.162	red liq	-1	90 dec	1.27		reac H <sub>2</sub> O
655	Carbon diselenide	CSe <sub>2</sub>	506-80-9	169.93	yel liq	-43.7	125.5	2.6823 <sup>20</sup>		i H <sub>2</sub> O; vs ctc, tol
656	Carbon oxysulfide	COS	463-58-1	60.075	col gas	-138.8	-50	2.456 g/L		s H <sub>2</sub> O, EtOH
657	Carbon oxyselenide	COSe	1603-84-5	106.97	col gas; unstab	-124.4	-21.7	4.372 g/L		reac H <sub>2</sub> O
658	Carbon sulfide selenide	CSSe	5951-19-9	123.04	yel liq	-85	84.5	1.99		i H <sub>2</sub> O
659	Carbon sulfide telluride	CSTe	10340-06-4	171.68	red-yel liq; unstab	-54	20 dec			reac H <sub>2</sub> O
660	Carbonyl bromide	COBr <sub>2</sub>	593-95-3	187.818	col liq			64.5	2.5	reac H <sub>2</sub> O
661	Carbonyl chloride	COCl <sub>2</sub>	75-44-5	98.916	col gas	-127.78	8	4.043 g/L		sl H <sub>2</sub> O; s bz, tol
662	Carbonyl fluoride	COF <sub>2</sub>	353-50-4	66.007	col gas	-111.26	-84.57	2.698 g/L		reac H <sub>2</sub> O
663	Cyanogen	C <sub>2</sub> N <sub>2</sub>	460-19-5	52.034	col gas	-27.83	-21.1	2.127 g/L		sl H <sub>2</sub> O, eth; s EtOH
664	Cyanogen azide	N <sub>3</sub> CN	764-05-6	68.038	col oily liq	exp				
665	Cyanogen bromide	BrCN	506-68-3	105.922	wh hyg needles	52	61.5	2.015		s H <sub>2</sub> O, EtOH, eth
666	Cyanogen chloride	CICN	506-77-4	61.471	col vol liq or gas	-6.55	13	2.513 g/L		s H <sub>2</sub> O, EtOH, eth
667	Cyanogen fluoride	FCN	1495-50-7	45.016	col gas	-82	-46	1.840 g/L		
668	Cyanogen iodide	ICN	506-78-5	152.922	col needles	146.7		2.84		s H <sub>2</sub> O, EtOH, eth
669	Cerium	Ce	7440-45-1	140.116	silv metal; cub or hex	799	3443	6.770		s dil acid
670	Cerium boride	CeB <sub>6</sub>	12008-02-5	204.982	blue refrac solid; hex	2550		4.87		i H <sub>2</sub> O, HCl
671	Cerium carbide	CeC <sub>2</sub>	12012-32-7	164.137	red hex cry	2250		5.47		reac H <sub>2</sub> O
672	Cerium carbide	Ce <sub>2</sub> C <sub>3</sub>	12115-63-8	316.264	yel-brn cub cry	1505		6.9		
673	Cerium nitride	CeN	25764-08-3	154.123	refrac cub cry	2557		7.89		
674	Cerium silicide	CeSi <sub>2</sub>	12014-85-6	196.287	tetr cry	1420		5.31		i H <sub>2</sub> O
675	Cerium(II) hydride	CeH <sub>2</sub>	13569-50-1	142.132	cub cry			5.45		reac H <sub>2</sub> O
676	Cerium(II) iodide	CeI <sub>2</sub>	19139-47-0	393.925	bronze cry	808				
677	Cerium(II) sulfide	CeS	12014-82-3	172.181	yel cub cry	2445		5.9		
678	Cerium(III) acetate sesquihydrate	Ce(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · 1.5H <sub>2</sub> O	17829-82-2		col cry	dec 115			26 <sup>15</sup>	s H <sub>2</sub> O
679	Cerium(III) ammonium nitrate tetrahydrate	(NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub> · 4H <sub>2</sub> O	13083-04-0	558.279	col monocl cry	74				vs H <sub>2</sub> O
680	Cerium(III) ammonium sulfate tetrahydrate	NH <sub>4</sub> Ce(SO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	21995-38-0*	422.341	monocl cry					s H <sub>2</sub> O
681	Cerium(III) bromide	CeBr <sub>3</sub>	14457-87-5	379.828	wh hex cry; hyg	732	1457			s H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
682	Cerium(III) bromide heptahydrate	CeBr <sub>3</sub> · 7H <sub>2</sub> O	7789-56-2	505.935	col hyg needles	732				s H <sub>2</sub> O, EtOH
683	Cerium(III) carbonate	Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub>	537-01-9	460.259	wh pow	dec 500				i H <sub>2</sub> O; s acid
684	Cerium(III) carbonate pentahydrate	Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	72520-94-6	550.335	wh powder					i H <sub>2</sub> O; s dil acid
685	Cerium(III) chloride	CeCl <sub>3</sub>	7790-86-5	246.475	wh hex cry	807		3.97		s H <sub>2</sub> O, EtOH
686	Cerium(III) chloride heptahydrate	CeCl <sub>3</sub> · 7H <sub>2</sub> O	18618-55-8	372.582	yel orth cry; hyg	90 dec				vs H <sub>2</sub> O, EtOH
687	Cerium(III) fluoride	CeF <sub>3</sub>	7758-88-5	197.111	wh hex cry; hyg	1430	2180	6.157		i H <sub>2</sub> O
688	Cerium(III) hydride	CeH <sub>3</sub>	13864-02-3	143.140	blk pow or blue-blk cry	dec (flam)				reac H <sub>2</sub> O
689	Cerium(III) hydroxide	Ce(OH) <sub>3</sub>	15785-09-8	191.138	wh solid					i H <sub>2</sub> O; s acid
690	Cerium(III) iodide	CeI <sub>3</sub>	7790-87-6	520.829	yel orth cry; hyg	760				s H <sub>2</sub> O
691	Cerium(III) iodide nonahydrate	CeI <sub>3</sub> · 9H <sub>2</sub> O	7790-87-6*	682.967	wh-red cry					vs H <sub>2</sub> O; s EtOH
692	Cerium(III) nitrate hexahydrate	Ce(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	10108-73-3*	434.222	col-red cry	150 dec			176 <sup>25</sup>	s ace
693	Cerium(III) oxalate nonahydrate	Ce(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	13266-83-6	706.426	wh pow	dec				i H <sub>2</sub> O, EtOH; s acid
694	Cerium(III) oxide	Ce <sub>2</sub> O <sub>3</sub>	1345-13-7	328.230	yel-grn cub cry	2210	3730	6.2		i H <sub>2</sub> O; s acid
695	Cerium(III) 2,4-pentanedioate trihydrate	Ce(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	15653-01-7	491.486	yel hyg cry	≈150				vs EtOH
696	Cerium(III) perchlorate hexahydrate	Ce(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	36907-38-7	546.559	hyg col cry	dec 200				s H <sub>2</sub> O, EtOH
697	Cerium(III) selenate	Ce <sub>2</sub> (SeO <sub>4</sub> ) <sub>3</sub>		709.11	rhomb cry			4.46		s H <sub>2</sub> O
698	Cerium(III) sulfate	Ce <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13454-94-9	568.420	col hyg cry	920 dec				s H <sub>2</sub> O
699	Cerium(III) sulfate octahydrate	Ce <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13454-94-9	712.542	wh orth cry	≈250 dec		2.87		s H <sub>2</sub> O
700	Cerium(III) sulfide	Ce <sub>2</sub> S <sub>3</sub>	12014-93-6	376.427	red cub cry	2450		5.02		i H <sub>2</sub> O
701	Cerium(III) tungstate	Ce <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub>	13454-74-5	1023.75	yel tetr cry	1089		6.77		i H <sub>2</sub> O
702	Cerium(IV) ammonium nitrate	(NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub>	16774-21-3	548.223	red-oran cry					vs H <sub>2</sub> O
703	Cerium(IV) ammonium nitrate dihydrate	(NH <sub>4</sub> ) <sub>4</sub> Ce(SO <sub>4</sub> ) <sub>4</sub> · 2H <sub>2</sub> O	10378-47-9	632.551	cry pow	dec 450				
704	Cerium(IV) fluoride	CeF <sub>4</sub>	10060-10-3	216.110	wh hyg powder	≈600 dec		4.77		i H <sub>2</sub> O
705	Cerium(IV) hydroxide	Ce(OH) <sub>4</sub>	12014-56-1	208.146	yel-wh pow					i H <sub>2</sub> O; s conc acid
706	Cerium(IV) oxide	CeO <sub>2</sub>	1306-38-3	172.115	wh-yel powder; cub	2480		7.216		i H <sub>2</sub> O, dil acid
707	Cerium(IV) sulfate tetrahydrate	Ce(SO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	10294-42-5	404.303	yel-oran orth cry	180 dec		3.91	9.66 <sup>20</sup>	
708	Cesium	Cs	7440-46-2	132.905	silv-wh metal	28.5	671	1.93		reac H <sub>2</sub> O
709	Cesium acetate	CsC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	3396-11-0	191.949	hyg lumps	194			10 <sup>11</sup>	
710	Cesium aluminum sulfate dodecahydrate	CsAl(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7784-17-0	568.196	col cub cry	117 dec		1.97		s H <sub>2</sub> O; i EtOH
711	Cesium amide	CsNH <sub>2</sub>	22205-57-8	148.928	wh tetr cry			3.70		
712	Cesium azide	CsN <sub>3</sub>	22750-57-8	174.925	hyg tetr cry; exp	326		≈3.5	22 <sup>40</sup>	
713	Cesium bromate	CsBrO <sub>3</sub>	13454-75-6	260.807	col hex cry			4.11	3.83 <sup>25</sup>	
714	Cesium bromide	CsBr	7787-69-1	212.809	wh cub cry; hyg	636	≈1300	4.43	123 <sup>25</sup>	s EtOH; i ace
715	Cesium carbonate	Cs <sub>2</sub> CO <sub>3</sub>	534-17-8	325.820	wh monocl cry; hyg	793		4.24	261 <sup>15</sup>	s EtOH, eth
716	Cesium chlorate	CsClO <sub>3</sub>	13763-67-2	216.356	col hex cry	342		3.57	7.78 <sup>25</sup>	sl H <sub>2</sub> O
717	Cesium chloride	CsCl	7647-17-8	168.358	wh cub cry; hyg	646	1297	3.988	191 <sup>25</sup>	s EtOH
718	Cesium chromate(IV)	Cs <sub>2</sub> CrO <sub>4</sub>	56320-90-2	647.616	yel hex cry	982		4.24		vs H <sub>2</sub> O
719	Cesium cyanide	CsCN	21159-32-0	158.923	wh cub cry; hyg	350		3.34		vs H <sub>2</sub> O
720	Cesium dibromiodate	CsIBr <sub>2</sub>	18278-82-5	419.617	dark oran cry	dec				s H <sub>2</sub> O
721	Cesium fluoride	CsF	13400-13-0	151.903	wh cub cry; hyg	703		4.64	573 <sup>25</sup>	s MeOH; i diox, py
722	Cesium fluoroborate	CsBF <sub>4</sub>	18909-69-8	219.710	wh orth cry	555 dec		3.2	1.6 <sup>17</sup>	sl H <sub>2</sub> O
723	Cesium formate	CsCHO <sub>2</sub>	3495-36-1	177.923	wh cry			1.017		vs H <sub>2</sub> O
724	Cesium hexafluorogermanate	Cs <sub>2</sub> GeF <sub>6</sub>		452.44	wh cry	≈675		4.10		sl cold H <sub>2</sub> O; s hot H <sub>2</sub> O
725	Cesium hydride	CsH	58724-12-2	133.913	wh cub cry; flam	528		3.42		reac H <sub>2</sub> O
726	Cesium hydrogen carbonate	CsHCO <sub>3</sub>	15519-28-5	193.922	rhomb cry	175 dec			209 <sup>15</sup>	s EtOH
727	Cesium hydrogen fluoride	CsHF <sub>2</sub>	12280-52-3	171.910	tetr cry	170		3.86		
728	Cesium hydrogen sulfate	CsHSO <sub>4</sub>	7789-16-4	229.976	col rhomb prisms	dec		3.352		s H <sub>2</sub> O
729	Cesium hydroxide	CsOH	21351-79-1	149.912	wh-yel hyg cry	342.3		3.68	300 <sup>30</sup>	s EtOH
730	Cesium iodate	CsIO <sub>3</sub>	13454-81-4	307.807	wh monocl cry			4.85	2.6 <sup>25</sup>	
731	Cesium iodide	CsI	7789-17-5	259.809	col cub cry; hyg	632	≈1280	4.51	84.8 <sup>25</sup>	s EtOH, MeOH, ace
732	Cesium metaborate	CsBO <sub>2</sub>	92141-86-1	175.715	cub cry	732		≈3.7		
733	Cesium molybdate	Cs <sub>2</sub> MoO <sub>4</sub>	13597-64-3	425.75	wh cry	956.3			67 <sup>18</sup>	s H <sub>2</sub> O
734	Cesium nitrate	CsNO <sub>3</sub>	7789-18-6	194.910	wh hex or cub cry	409		3.66	27.9 <sup>25</sup>	s ace; sl EtOH
735	Cesium nitrite	CsNO <sub>2</sub>	13454-83-6	178.911	yel cry	406				s H <sub>2</sub> O
736	Cesium oxide	Cs <sub>2</sub> O	20281-00-9	281.810	yel-oran hex cry	495		4.65		vs H <sub>2</sub> O
737	Cesium superoxide	CsO <sub>2</sub>	12018-61-0	164.904	yel tetr cry	432		3.77		reac H <sub>2</sub> O
738	Cesium trioxide	Cs <sub>2</sub> O <sub>3</sub>	12134-22-4	313.809	brn cry	≈400		4.25		reac H <sub>2</sub> O
739	Cesium perchlorate	CsClO <sub>4</sub>	13454-84-7	232.356	wh orth cry; hyg	≈600 dec		3.327	2.00 <sup>25</sup>	
740	Cesium periodate	CsIO <sub>4</sub>	13478-04-1	323.807	wh rhomb prisms			4.26	2.2 <sup>15</sup>	
741	Cesium sulfate	Cs <sub>2</sub> SO <sub>4</sub>	10294-54-9	361.874	wh orth cry or hex prisms; hyg	1005		4.24	182 <sup>25</sup>	i EtOH, ace, py

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
742	Cesium sulfide	Cs <sub>2</sub> S	12214-16-3	297.876	yel orth hyg cry	520				vs H <sub>2</sub> O
743	Cesium trifluoroacetate	Cs(C <sub>2</sub> F <sub>3</sub> O <sub>2</sub> )	21907-50-6	245.920	hyg solid	115				vs H <sub>2</sub> O
744	Chlorine	Cl <sub>2</sub>	7782-50-5	70.906	grn-yel gas	-101.5	-34.04	2.898 g/L		sl H <sub>2</sub> O
745	Hypochlorous acid	HOCl	7790-92-3	52.460	grn-yel; stable only in aq soln					s H <sub>2</sub> O
746	Chloric acid	HClO <sub>3</sub>	7790-93-4	84.459	exists only in aq soln					vs H <sub>2</sub> O
747	Perchloric acid	HClO <sub>4</sub>	7601-90-3	100.459	col hyg liq	-112	≈90 dec	1.77		s H <sub>2</sub> O
748	Chlorine monoxide	Cl <sub>2</sub> O	7791-21-1	86.905	yel-brn gas	-120.6	2.2	3.552 g/L		vs H <sub>2</sub> O
749	Chlorine dioxide	ClO <sub>2</sub>	10049-04-4	67.452	oran-grn gas	-59	11	2.757 g/L		sl H <sub>2</sub> O
750	Dichlorine trioxide	Cl <sub>2</sub> O <sub>3</sub>	17496-59-2	118.904	dark brn solid	exp <25				
751	Dichlorine hexoxide	Cl <sub>2</sub> O <sub>6</sub>	12442-63-6	166.902	red liq	3.5	≈200			reac H <sub>2</sub> O
752	Dichlorine heptoxide	Cl <sub>2</sub> O <sub>7</sub>	10294-48-1	182.902	col oily liq; exp	-91.5	82	1.9		reac H <sub>2</sub> O
753	Chlorine fluoride	ClF	7790-89-8	54.451	col gas	-155.6	-101.1	2.226 g/L		reac H <sub>2</sub> O
754	Chlorine trifluoride	ClF <sub>3</sub>	7790-91-2	92.448	gas	-76.34	11.75	3.779 g/L		reac H <sub>2</sub> O
755	Chlorine pentafluoride	ClF <sub>5</sub>	13637-63-3	130.445	col gas	-103	-13.1	5.332 g/L		
756	Chlorosyl trifluoride	ClOF <sub>3</sub>	30708-80-6	108.447	col liq	-42	27			reac H <sub>2</sub> O
757	Chloryl fluoride	ClO <sub>2</sub> F	13637-83-7	86.450	col gas	-115	-6	3.534 g/L		reac H <sub>2</sub> O
758	Chloryl trifluoride	ClO <sub>2</sub> F <sub>3</sub>	38680-84-1	124.447	col gas	-81.2	-21.6	5.087 g/L		reac H <sub>2</sub> O
759	Perchloryl fluoride	ClO <sub>3</sub> F	7616-94-6	102.449	col gas	-147	-46.75	4.187 g/L		
760	Chlorine perchlorate	ClOClO <sub>3</sub>	27218-16-2	134.904	unstab yel liq	-117	≈45 dec	1.81 <sup>o</sup>		
761	Chromium	Cr	7440-47-3	51.996	blue-wh metal; cub	1907	2671	7.15		reac dil acid
762	Chromic acid	H <sub>2</sub> CrO <sub>4</sub>	7738-94-5	118.010	aq soln only					s H <sub>2</sub> O
763	Chromium antimonide	CrSb	12053-12-2	173.756	hex cry	1110		7.11		
764	Chromium arsenide	Cr <sub>2</sub> As	12254-85-2	178.914	tetr cry			7.04		
765	Chromium boride (CrB)	CrB	12006-79-0	62.807	refrac orth cry	2100		6.1		
766	Chromium boride (Cr <sub>2</sub> B <sub>3</sub> )	Cr <sub>2</sub> B <sub>3</sub>	12007-16-8	73.618	refrac solid; hex	2200		5.22		
767	Chromium boride (Cr <sub>3</sub> B <sub>2</sub> )	Cr <sub>3</sub> B <sub>2</sub>	12006-80-3	114.803	refrac solid	1875				
768	Chromium boride (Cr <sub>2</sub> B <sub>3</sub> )	Cr <sub>2</sub> B <sub>3</sub>	12007-38-4	292.414	tetr cry	1900		6.10		
769	Chromium carbide	Cr <sub>3</sub> C <sub>2</sub>	12012-35-0	180.009	gray orth cry	1895		6.68		
770	Chromium carbonyl	Cr(CO) <sub>5</sub>	13007-92-6	220.056	col orth cry	130 dec	subl	1.77		i H <sub>2</sub> O, EtOH; s eth, chl
771	Chromium nitride (CrN)	CrN	24094-93-7	66.003	gray cub cry	1080 dec		5.9		
772	Chromium nitride (Cr <sub>2</sub> N)	Cr <sub>2</sub> N	12053-27-9	117.999	hex cry	1650		6.8		
773	Chromium phosphide	CrP	26342-61-0	82.970	orth cry			5.25		
774	Chromium selenide	CrSe	12053-13-3	130.96	hex cry	≈1500		6.1		
775	Chromium silicide (CrSi <sub>2</sub> )	CrSi <sub>2</sub>	12018-09-6	108.167	gray hex cry	1490		4.91		
776	Chromium silicide (Cr <sub>3</sub> Si)	Cr <sub>3</sub> Si	12018-36-9	184.074	cub cry	1770		6.4		
777	Chromium(II) acetate monohydrate	Cr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	628-52-4*	188.100	red monocl cry			1.79		sl H <sub>2</sub> O
778	Chromium(II) bromide	CrBr <sub>2</sub>	10049-25-9	211.804	wh monocl cry; aq soln blue	842		4.236		s H <sub>2</sub> O, EtOH
779	Chromium(II) chloride	CrCl <sub>2</sub>	10049-05-5	122.902	wh hyg needles; aq soln blue	824	1120	2.88		s H <sub>2</sub> O
780	Chromium(II) chloride tetrahydrate	Cr(H <sub>2</sub> O) <sub>4</sub> Cl <sub>2</sub> · 4H <sub>2</sub> O	13931-94-7	267.024	blue hyg cry	51 dec				s H <sub>2</sub> O
781	Chromium(II) fluoride	CrF <sub>2</sub>	10049-10-2	89.993	blue-grn monocl cry	894		3.79		sl H <sub>2</sub> O; i EtOH
782	Chromium(II) formate monohydrate	Cr(CHOO) <sub>2</sub> · H <sub>2</sub> O	4493-37-2	160.046	red needles					s H <sub>2</sub> O
783	Chromium(II) iodide	CrI <sub>2</sub>	13478-28-9	305.805	red-brn cry; hyg	867		5.1		s H <sub>2</sub> O
784	Chromium(II) oxalate monohydrate	CrC <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	814-90-4*	158.030	yel-grn powder			2.468		sl H <sub>2</sub> O
785	Chromium(II) sulfate pentahydrate	CrSO <sub>4</sub> · 5H <sub>2</sub> O	13825-86-0	238.135	blue cry				21 <sup>o</sup>	s dil acid; sl EtOH; i ace
786	Chromium(II,III) oxide	Cr <sub>2</sub> O <sub>3</sub>	12018-34-7	219.986	cub cry			6.1		
787	Chromium(III) acetate	Cr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	1066-30-4	229.127	blue-grn pwd					sl H <sub>2</sub> O
788	Chromium(III) acetate monohydrate	Cr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · H <sub>2</sub> O	25013-82-5	247.143	gray-grn pow					sl H <sub>2</sub> O; i EtOH
789	Chromium(III) acetate hexahydrate	Cr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	1066-30-4*	337.220	blue needles					s H <sub>2</sub> O
790	Chromium(III) acetate hydroxide	Cr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> (OH)	39430-51-8	187.092	viol cry pow					vs H <sub>2</sub> O
791	Chromium(III) bromide	CrBr <sub>3</sub>	10031-25-1	291.708	dark grn hex cry	812		4.68		s hot H <sub>2</sub> O, bz
792	Chromium(III) bromide hexahydrate (α)	CrBr <sub>3</sub> (H <sub>2</sub> O) <sub>6</sub> · 2H <sub>2</sub> O	18721-05-6	399.799	grn hyg cry					s H <sub>2</sub> O, EtOH
793	Chromium(III) bromide hexahydrate (β)	Cr(H <sub>2</sub> O) <sub>6</sub> Br <sub>3</sub>	10031-25-1*	399.799	viol hyg cry					s H <sub>2</sub> O; i EtOH, eth
794	Chromium(III) chloride	CrCl <sub>3</sub>	10025-73-7	158.355	red-viol cry	1152	1300 dec	2.76		sl H <sub>2</sub> O
795	Chromium(III) chloride hexahydrate	[CrCl <sub>2</sub> (H <sub>2</sub> O) <sub>4</sub> ]Cl · 2H <sub>2</sub> O	10060-12-5	266.446	grn monocl cry; hyg					s H <sub>2</sub> O, EtOH; sl ace; i eth
796	Chromium(III) fluoride	CrF <sub>3</sub>	7788-97-8	108.991	grn needles	1425		3.8		i H <sub>2</sub> O, EtOH
797	Chromium(III) fluoride trihydrate	CrF <sub>3</sub> · 3H <sub>2</sub> O	16671-27-5	163.037	grn hex cry			2.2		sl H <sub>2</sub> O
798	Chromium(III) hydroxide sulfate	Cr(OH)SO <sub>4</sub>	12336-95-7	165.066	grn cry					
799	Chromium(III) fluoride nonahydrate	Cr(H <sub>2</sub> O) <sub>9</sub> F <sub>3</sub> · 3H <sub>2</sub> O	102430-09-1	271.129	rhomb viol cry					sl H <sub>2</sub> O



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
800	Chromium(III) hydroxide trihydrate	Cr(OH) <sub>3</sub> · 3H <sub>2</sub> O	1308-14-1	157.063	blue-grn powder					i H <sub>2</sub> O; s acid
801	Chromium(III) iodide	CrI <sub>3</sub>	13569-75-0	432.709	dark grn hex cry	500 dec		5.32		sl H <sub>2</sub> O
802	Chromium(III) nitrate	Cr(NO <sub>3</sub> ) <sub>3</sub>	13548-38-4	238.011	grn hyg powder	>60 dec				vs H <sub>2</sub> O
803	Chromium(III) nitrate nonahydrate	Cr(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	7789-02-8	400.148	grn-blk monocl cry	66.3	>100 dec	1.80		vs H <sub>2</sub> O
804	Chromium(III) oxide	Cr <sub>2</sub> O <sub>3</sub>	1308-38-9	151.990	grn hex cry	2320	≈3000	5.22		i H <sub>2</sub> O, EtOH; sl acid, alk
805	Chromium(III) 2,4-pentanedioate	Cr(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	21679-31-2	349.320	red monocl cry	208	345	1.34		i H <sub>2</sub> O; s bz
806	Chromium(III) perchlorate	Cr(ClO <sub>4</sub> ) <sub>3</sub>	27535-70-2	350.348	grn-blue cry				58 <sup>25</sup>	vs H <sub>2</sub> O
807	Chromium(III) phosphate	CrPO <sub>4</sub>	7789-04-0	146.967	blue orth cry	>1800		4.6		i H <sub>2</sub> O, acid, aqua regia
808	Chromium(III) phosphate hemiheptahydrate	CrPO <sub>4</sub> · 3.5H <sub>2</sub> O	84359-31-9	210.021	blue-grn powder			2.15		i H <sub>2</sub> O; s acid
809	Chromium(III) phosphate hexahydrate	CrPO <sub>4</sub> · 6H <sub>2</sub> O	84359-31-9	255.059	viol cry	>500 dec		2.121		i H <sub>2</sub> O; s acid, alk
810	Chromium(III) potassium oxalate trihydrate	K <sub>3</sub> Cr(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	15275-09-9	487.394	blue-grn monocl cry					s H <sub>2</sub> O
811	Chromium(III) potassium sulfate dodecahydrate	K <sub>2</sub> Cr(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7788-99-0	499.403	viol-blk cub cry	89 dec		1.83		s H <sub>2</sub> O; i EtOH
812	Chromium(III) sulfate	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10101-53-8	392.180	red pow	dec >700		3.1	64 <sup>25</sup>	s H <sub>2</sub> O; vs acid
813	Chromium(III) sulfate octadecahydrate	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 18H <sub>2</sub> O	10101-53-8*	716.455	viol cry	dec 115		1.7		reac H <sub>2</sub> O
814	Chromium(III) sulfide	Cr <sub>2</sub> S <sub>3</sub>	12018-22-3	200.187	brn-blk hex cry			3.8		
815	Chromium(III) telluride	Cr <sub>2</sub> Te <sub>3</sub>	12053-39-3	486.79	hex cry	≈1300		7.0		
816	Chromium(IV) chloride	CrCl <sub>4</sub>	15597-88-3	193.808	gas, stable at HT		>600 dec	7.922 g/L		
817	Chromium(IV) fluoride	CrF <sub>4</sub>	10049-11-3	127.990	grn cry	277		2.89		reac H <sub>2</sub> O
818	Chromium(IV) oxide	CrO <sub>2</sub>	12018-01-8	83.995	brn-blk tetr powder	≈400 dec		4.89		i H <sub>2</sub> O; s acid
819	Chromium(V) fluoride	CrF <sub>5</sub>	14884-42-5	146.988	red orth cry	34	117			reac H <sub>2</sub> O
820	Chromium(V) oxide	Cr <sub>2</sub> O <sub>5</sub>	12218-36-9	183.989	blk needles	dec 200				
821	Chromium(VI) fluoride	CrF <sub>6</sub>	13843-28-2	165.986	yel solid; stable at low temp	-100 dec				
822	Chromium(VI) oxide	CrO <sub>3</sub>	1333-82-0	99.994	red orth cry	197	≈250 dec	2.7	169 <sup>25</sup>	
823	Chromium(VI) tetrafluoride oxide	CrOF <sub>4</sub>	23276-90-6	143.989	dark red solid	55				reac H <sub>2</sub> O, ace, dmsO
824	Chromium(VI) dichloride dioxide	CrO <sub>2</sub> Cl <sub>2</sub>	14977-61-8	154.901	red liq	-96.5	117	1.91		reac H <sub>2</sub> O; s ctc, chl, bz
825	Chromium(VI) difluoride dioxide	CrO <sub>2</sub> F <sub>2</sub>	7788-96-7	121.992	red-viol cry	30	subl			reac H <sub>2</sub> O
826	Cobalt	Co	7440-48-4	58.933	gray metal; hex or cub	1495	2927	8.86		s dil acid
827	Cobaltocene	Co(C <sub>2</sub> H <sub>4</sub> ) <sub>2</sub>	1277-43-6	189.119	blk-purp cry	173				
828	Cobalt antimonide	CoSb	12052-42-5	180.693	hex cry	1202		8.8		
829	Cobalt arsenic sulfide	CoAsS	12254-82-9	165.920	silv-wh solid			≈6.1		
830	Cobalt arsenide (CoAs)	CoAs	27016-73-5	133.855	orth cry	1180		8.22		
831	Cobalt arsenide (CoAs <sub>2</sub> )	CoAs <sub>2</sub>	12044-42-7	208.776	monocl cry			7.2		
832	Cobalt arsenide (CoAs <sub>3</sub> )	CoAs <sub>3</sub>	12256-04-1	283.698	cub cry	942		6.84		
833	Cobalt boride (CoB)	CoB	12006-77-8	69.744	refrac solid	1460		7.25		reac H <sub>2</sub> O, HNO <sub>3</sub>
834	Cobalt boride (Co <sub>2</sub> B)	Co <sub>2</sub> B	12045-01-1	128.677	refrac solid	1280		8.1		
835	Cobalt carbonyl	Co <sub>2</sub> (CO) <sub>8</sub>	10210-68-1	341.947	oran cry	51 dec		1.78		i H <sub>2</sub> O; s EtOH, eth, CS <sub>2</sub>
836	Cobalt disulfide	CoS <sub>2</sub>	12013-10-4	123.063	cub cry			4.3		
837	Cobalt dodecacarbonyl	Co <sub>12</sub> (CO) <sub>12</sub>	17786-31-1	571.854	blk cry	60 dec		2.09		
838	Cobalt phosphide	Co <sub>2</sub> P	12134-02-0	148.840	gray needles	1386		6.4		i H <sub>2</sub> O; s HNO <sub>3</sub>
839	Cobalt silicide	CoSi <sub>2</sub>	12017-12-8	115.104	gray cub cry	1326		4.9		s hot HCl
840	Cobalt(II) acetate	Co(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	71-48-7	177.022	pink cry					vs H <sub>2</sub> O; s EtOH
841	Cobalt(II) acetate tetrahydrate	Co(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	6147-53-1	249.082	red monocl cry			1.705		s H <sub>2</sub> O, EtOH, dil acid
842	Cobalt(II) aluminate	CoAl <sub>2</sub> O <sub>4</sub>	13820-62-7	176.894	blue cub cry			4.37		i H <sub>2</sub> O
843	Cobalt(II) arsenate octahydrate	Co <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	24719-19-5	598.760	red monocl needles	400 dec	1000 dec	3.0		i H <sub>2</sub> O; s dil acid
844	Cobalt(II) bromate hexahydrate	Co(BrO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13476-01-2	422.829	viol cry			≈2.5		vs H <sub>2</sub> O
845	Cobalt(II) bromide	CoBr <sub>2</sub>	7789-43-7	218.741	grn hex cry; hyg	678		4.91	113.2 <sup>20</sup>	s MeOH, EtOH, ace
846	Cobalt(II) bromide hexahydrate	CoBr <sub>2</sub> · 6H <sub>2</sub> O	13762-12-4	326.832	red hyg cry	47 dec	100 dec	2.46	113.2	
847	Cobalt(II) carbonate	CoCO <sub>3</sub>	513-79-1	118.942	pink rhomb cry	dec 280		4.2	0.00014 <sup>20</sup>	i EtOH
848	Cobalt(II) basic carbonate	2CoCO <sub>3</sub> · 3Co(OH) <sub>2</sub> · H <sub>2</sub> O	7542-09-8	534.743	red-viol cry	dec				i H <sub>2</sub> O; s acid
849	Cobalt(II) chlorate hexahydrate	Co(ClO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O		333.927	dark red hyg cry	dec 61				s H <sub>2</sub> O
850	Cobalt(II) chloride	CoCl <sub>2</sub>	7646-79-9	129.839	blue hyg leaflets	737	1049	3.36	56.2 <sup>25</sup>	s EtOH, eth, ace, py
851	Cobalt(II) chloride dihydrate	CoCl <sub>2</sub> · 2H <sub>2</sub> O	16544-92-6	165.870	viol-blue cry			2.477	56.2 <sup>25</sup>	

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
852	Cobalt(II) chloride hexahydrate	CoCl <sub>2</sub> · 6H <sub>2</sub> O	7791-13-1	237.930	pink-red monocl cry	87 dec		1.924	56.2 <sup>25</sup>	s EtOH, ace, eth
853	Cobalt(II) chromate	CoCrO <sub>4</sub>	24613-38-5	174.927	yel-brn orth cry			≈4.0		i H <sub>2</sub> O; s acid
854	Cobalt(II) chromite	CoCr <sub>2</sub> O <sub>4</sub>	13455-25-9	226.923	blue-grn cub cry			5.14		i H <sub>2</sub> O, conc acid
855	Cobalt(II) citrate dihydrate	Co <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	18727-04-3	265.170	rose red cry	dec 150			0.8 <sup>15</sup>	
856	Cobalt(II) cyanide	Co(CN) <sub>2</sub>	542-84-7	110.967	blue hyg cry			1.872		i H <sub>2</sub> O
857	Cobalt(II) cyanide dihydrate	Co(CN) <sub>2</sub> · 2H <sub>2</sub> O	20427-11-6	146.998	pink-brn needles					i H <sub>2</sub> O, acid
858	Cobalt(II) diiron tetroxide	CoFe <sub>2</sub> O <sub>4</sub>	12052-28-7	234.621	blk solid					s hot HCl
859	Cobalt(II) ferricyanide	Co <sub>3</sub> [Fe(CN) <sub>6</sub> ] <sub>2</sub>	14049-81-1	600.698	red needles					i H <sub>2</sub> O, HCl; s NH <sub>4</sub> OH
860	Cobalt(II) fluoride	CoF <sub>2</sub>	10026-17-2	96.930	red tetr cry	1127	≈1400	4.46	1.4 <sup>25</sup>	s acid
861	Cobalt(II) fluoride tetrahydrate	CoF <sub>2</sub> · 4H <sub>2</sub> O	13817-37-3	168.992	red orth cry	dec		2.22	1.4 <sup>25</sup>	
862	Cobalt(II) formate dihydrate	Co(CHO <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	6424-20-0	184.998	red cry powder	140 dec		2.13	5.03 <sup>20</sup>	i EtOH
863	Cobalt(II) hexafluoro-2,4-pentanedioate	Co(CF <sub>3</sub> COCHCOCF <sub>3</sub> ) <sub>2</sub>	19648-83-0	473.035	powder	197				
864	Cobalt(II) hexafluorosilicate hexahydrate	CoSiF <sub>6</sub> · 6H <sub>2</sub> O	12021-68-0	309.100	pale red cry			2.087	76.8 <sup>22</sup>	
865	Cobalt(II) hydroxide	Co(OH) <sub>2</sub>	21041-93-0	92.948	blue-grn cry	≈160 dec		3.60		sl H <sub>2</sub> O; s acid
866	Cobalt(II) hydroxide monohydrate	Co(OH) <sub>2</sub> · H <sub>2</sub> O	35340-84-2	110.963	blue solid	136 dec				
867	Cobalt(II) iodate	Co(IO <sub>3</sub> ) <sub>2</sub>	13455-28-2	408.738	blk-viol needles	200 dec		5.09	0.46 <sup>20</sup>	
868	Cobalt(II) iodide	CoI <sub>2</sub>	15238-00-3	312.742	blk hex cry; hyg	520		5.60	203 <sup>25</sup>	
869	Cobalt(II) iodide dihydrate	CoI <sub>2</sub> · 2H <sub>2</sub> O	13455-29-3	348.773	hyg grn cry	dec 100				
870	Cobalt(II) iodide hexahydrate	CoI <sub>2</sub> · 6H <sub>2</sub> O	15238-00-3*	420.833	red hex prisms	130 dec		2.90	203 <sup>25</sup>	s EtOH, eth, ace
871	Cobalt(II) molybdate	CoMoO <sub>4</sub>	13762-14-6	218.87	blk monocl cry	1040		4.7		
872	Cobalt(II) molybdate monohydrate	CoMoO <sub>4</sub> · H <sub>2</sub> O	18601-87-1	236.89	blk pow					
873	Cobalt(II) nitrate	Co(NO <sub>3</sub> ) <sub>2</sub>	10141-05-6	182.942	pale red powder	100 dec		2.49	103 <sup>25</sup>	
874	Cobalt(II) nitrate hexahydrate	Co(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10026-22-9	291.034	red monocl cry; hyg	≈55		1.88	103 <sup>25</sup>	s EtOH
875	Cobalt(II) nitrite	Co(NO <sub>2</sub> ) <sub>2</sub>	18488-96-5	150.944					0.49 <sup>25</sup>	
876	Cobalt(II) oleate	Co(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	14666-94-5	621.840	brn amorp pow					i H <sub>2</sub> O; s EtOH, eth
877	Cobalt(II) orthosilicate	Co <sub>2</sub> SiO <sub>4</sub>	12017-08-2	209.950	red-viol orth cry	1345		4.63		i H <sub>2</sub> O; s dil HCl
878	Cobalt(II) oxalate	CoC <sub>2</sub> O <sub>4</sub>	814-89-1	146.952	pink powder	250 dec		3.02	0.0037 <sup>20</sup>	s acid, NH <sub>4</sub> OH
879	Cobalt(II) oxalate dihydrate	CoC <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	5965-38-8	182.982	pink needles	dec			0.0037	sl acid; s NH <sub>4</sub> OH
880	Cobalt(II) oxide	CoO	1307-96-6	74.932	gray cub cry	1830		6.44		i H <sub>2</sub> O; s acid
881	Cobalt(II) 2,4-pentanedioate	Co(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	14024-48-7	257.149	bl-viol cry	167				
882	Cobalt(II) perchlorate	Co(ClO <sub>4</sub> ) <sub>2</sub>	13455-31-7	257.834	red needles			3.33	113 <sup>25</sup>	i EtOH, ace
883	Cobalt(II) perchlorate hexahydrate	Co(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13478-33-6	365.926	dark red cry	dec 170		3.33		vs H <sub>2</sub> O
884	Cobalt(II) phosphate octahydrate	Co <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	10294-50-5	510.865	pink amorp powder			2.77		i H <sub>2</sub> O; s acid
885	Cobalt(II) potassium sulfate hexahydrate	CoK <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10026-20-7	437.347	red monocl cry	75 dec		2.22		vs H <sub>2</sub> O
886	Cobalt(II) selenate pentahydrate	CoSeO <sub>4</sub> · 5H <sub>2</sub> O	14590-19-3	291.97	red tricl cry	dec		2.51	55 <sup>15</sup>	
887	Cobalt(II) selenide	CoSe	1307-99-9	137.89	yel hex cry	1055		7.65		i H <sub>2</sub> O, alk; s aqua regia
888	Cobalt(II) selenite dihydrate	CoSeO <sub>3</sub> · 2H <sub>2</sub> O	19034-13-0	221.92	blue-red powder					i H <sub>2</sub> O
889	Cobalt(II) stannate	Co <sub>2</sub> SnO <sub>4</sub>	12139-93-4	300.574	grn-blue cub cry			6.30		i H <sub>2</sub> O; s alk
890	Cobalt(II) stearate	Co(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	1002-88-6	625.872	purp solid	74		1.13		
891	Cobalt(II) sulfate	CoSO <sub>4</sub>	10124-43-3	154.996	red orth cry	>700		3.71	38.3 <sup>25</sup>	
892	Cobalt(II) sulfate monohydrate	CoSO <sub>4</sub> · H <sub>2</sub> O	13455-34-0	173.011	red monocl cry			3.08	38.3 <sup>25</sup>	
893	Cobalt(II) sulfate heptahydrate	CoSO <sub>4</sub> · 7H <sub>2</sub> O	10026-24-1	281.102	pink monocl cry	41 dec		2.03	38.3 <sup>25</sup>	sl EtOH, MeOH
894	Cobalt(II) sulfide	CoS	1317-42-6	90.998	blk amorp powder	1117		5.45		i H <sub>2</sub> O; s acid
895	Cobalt(II) telluride	CoTe	12017-13-9	186.53	hex cry			≈8.8		
896	Cobalt(II) thiocyanate	Co(SCN) <sub>2</sub>	3017-60-5	175.097	yel-brn powder				103 <sup>25</sup>	s EtOH, MeOH, ace, eth
897	Cobalt(II) thiocyanate trihydrate	Co(SCN) <sub>2</sub> · 3H <sub>2</sub> O	97126-35-7	229.143	viol rhomb cry			5.0	103 <sup>25</sup>	s EtOH, eth, ace
898	Cobalt(II) titanate	CoTiO <sub>3</sub>	12017-01-5	154.798	grn rhomb cry					
899	Cobalt(II) tungstate	CoWO <sub>4</sub>	12640-47-0	306.77	blue monocl cry			≈7.8		i H <sub>2</sub> O; s hot conc acid
900	Cobalt(II,III) oxide	Co <sub>3</sub> O <sub>4</sub>	1308-06-1	240.798	blk cub cry	900 dec		6.11		i H <sub>2</sub> O; s acid, alk
901	Cobalt(III) acetate	Co(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	917-69-1	236.064	grn hyg cry	100 dec				s H <sub>2</sub> O, EtOH
902	Cobalt(III) ammonium tetranitrodiammine	NH <sub>4</sub> [Co(NH <sub>3</sub> ) <sub>2</sub> (NO <sub>2</sub> ) <sub>4</sub> ]	13600-89-0	295.054	red-brn orth cry			1.97		s H <sub>2</sub> O
903	Cobalt(III) fluoride	CoF <sub>3</sub>	10026-18-3	115.928	brn hex cry	927		3.88		reac H <sub>2</sub> O; s EtOH, eth, bz
904	Cobalt(III) fluoride dihydrate	Co <sub>2</sub> F <sub>6</sub> · 2H <sub>2</sub> O	54496-71-8	267.887	red rhomb cry			2.19		s H <sub>2</sub> O; i EtOH
905	Cobalt(III) hexammine chloride	Co(NH <sub>3</sub> ) <sub>6</sub> Cl <sub>3</sub>	10534-89-1	267.475	red monocl cry			1.71		s H <sub>2</sub> O; i EtOH
906	Cobalt(III) hydroxide	Co(OH) <sub>3</sub>	1307-86-4	109.955	brn powder	dec		≈4		i H <sub>2</sub> O; s acid
907	Cobalt(III) nitrate	Co(NO <sub>3</sub> ) <sub>3</sub>	15520-84-0	244.948	grn cub cry; hyg			≈3.0		s H <sub>2</sub> O; reac os
908	Cobalt(III) oxide	Co <sub>2</sub> O <sub>3</sub>	1308-04-9	165.864	gray-blk powder	895 dec		5.18		i H <sub>2</sub> O; s conc acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
909	Cobalt(III) oxide monohydrate	Co <sub>2</sub> O <sub>3</sub> · H <sub>2</sub> O	12016-80-7	183.880	brn-blk hex cry	150 dec				i H <sub>2</sub> O; s acid
910	Cobalt(III) 2,4-pentanedioate	Co(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	21679-46-9	356.257	dark grn cry	213				s bz, ace
911	Cobalt(III) potassium nitrite sesquihydrate	CoK <sub>3</sub> (NO <sub>2</sub> ) <sub>6</sub> · 1.5H <sub>2</sub> O	13782-01-9*	479.284	yel cub cry			2.6		sl H <sub>2</sub> O; reac acid; i EtOH
912	Cobalt(III) sulfide	Co <sub>2</sub> S <sub>3</sub>	1332-71-4	214.061	blk cub cry			4.8		reac acid
913	Cobalt(III) titanate	Co <sub>2</sub> TiO <sub>4</sub>	12017-38-8	229.731	grn-blk cub cry			5.1		s conc HCl
914	Copper	Cu	7440-50-8	63.546	red metal; cub	1084.62	2562	8.96		sl dil acid
915	Copper arsenide	Cu <sub>3</sub> As	12005-75-3	265.560	dark gray solid	827				
916	Copper nitride	Cu <sub>3</sub> N	1308-80-1	204.645	cub cry	300 dec		5.84		
917	Copper phosphide	Cu <sub>3</sub> P <sub>2</sub>	12019-11-3	125.494	monocl cry	≈900		4.20		
918	Copper silicide	Cu <sub>3</sub> Si	12159-07-8	345.816	solid	825				
919	Copper(I) acetate	Cu <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	598-54-9	122.590	col cry	dec	subl			reac H <sub>2</sub> O
920	Copper(I) acetylide	Cu <sub>2</sub> C <sub>2</sub>	1117-94-8	151.113	red amorp powder; exp					
921	Copper(I) azide	CuN <sub>3</sub>	14336-80-2	105.566	tetr cry; exp					
922	Copper(I) bromide	CuBr	7787-70-4	143.450	wh cub cry; hyg	483	1345	4.98	0.0012 <sup>20</sup>	i ace
923	Copper(I) chloride	CuCl	7758-89-6	98.999	wh cub cry	423	1490	4.14	0.0047 <sup>20</sup>	i EtOH, ace
924	Copper(I) cyanide	CuCN	544-92-3	89.564	wh powder or grn orth cry	474	dec	2.9		i H <sub>2</sub> O, EtOH; s KCN soln
925	Copper(I) fluoride	CuF	13478-41-6	82.544	cub cry			7.1		
926	Copper(I) hydride	CuH	13517-00-5	64.554	red-brn solid	60 dec				
927	Copper(I) iodide	CuI	7681-65-4	190.450	wh cub cry	591	≈1290	5.67	0.000020 <sup>20</sup>	i dil acid
928	Copper(I) mercury iodide	Cu <sub>2</sub> HgI <sub>4</sub>	13876-85-2	835.30	red cry powder	trans ≈60 (brn)				i H <sub>2</sub> O, EtOH
929	Copper(I) oxide	Cu <sub>2</sub> O	1317-39-1	143.091	red-brn cub cry	1244	1800 dec	6.0		i H <sub>2</sub> O
930	Copper(I) selenide	Cu <sub>2</sub> Se	20405-64-5	206.05	blue-blk tetr cry	1113		6.84		i H <sub>2</sub> O; s acid
931	Copper(I) sulfide	Cu <sub>2</sub> S	22205-45-4	159.157	blue-blk orth cry	1129		5.6		i H <sub>2</sub> O; sl acid
932	Copper(I) sulfite hemihydrate	Cu <sub>2</sub> SO <sub>3</sub> · 0.5H <sub>2</sub> O	13982-53-1*	216.164	wh-yel hex cry					sl H <sub>2</sub> O; s acid, alk; i EtOH, eth
933	Copper(I) sulfite monohydrate	Cu <sub>2</sub> SO <sub>3</sub> · H <sub>2</sub> O	35788-00-2	225.171	cry			3.83		sl H <sub>2</sub> O; s HCl
934	Copper(I) telluride	Cu <sub>2</sub> Te	12019-52-2	254.69	blue hex cry	1127		4.6		
935	Copper(I) thiocyanate	CuSCN	1111-67-7	121.629	wh-yel amorp powder	1084		2.85		i H <sub>2</sub> O, dil acid, EtOH, ace; s eth
936	Copper(I,II) sulfite dihydrate	Cu <sub>2</sub> SO <sub>3</sub> · CuSO <sub>3</sub> · 2H <sub>2</sub> O	13814-81-8	386.795	red prisms or powder					i H <sub>2</sub> O, EtOH; s HCl
937	Copper(II) acetate	Cu(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	142-71-2	181.635	blue-grn hyg powder					
938	Copper(II) acetate monohydrate	Cu(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	6046-93-1	199.650	grn monocl cry	115	240 dec	1.88		s H <sub>2</sub> O, EtOH; sl eth
939	Copper(II) acetate metaarsenite	Cu(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 3Cu(AsO <sub>2</sub> ) <sub>2</sub>	12002-03-8	1013.795	grn cry powder					i H <sub>2</sub> O; reac acid
940	Copper(II) basic acetate	Cu(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · CuO · 6H <sub>2</sub> O	52503-64-7	369.271	blue-grn cry or powder					sl H <sub>2</sub> O, EtOH; s dil acid, NH <sub>4</sub> OH
941	Copper(II) acetylide	Cu <sub>2</sub> C <sub>2</sub>	12540-13-5	87.567	brn-blk solid; exp	exp 100				
942	Copper(II) arsenate	Cu <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	7778-41-8	468.476	blue-grn cry					i H <sub>2</sub> O, EtOH; s dil acid
943	Copper(II) arsenite	CuHAsO <sub>3</sub>	10290-12-7	187.474	yel-grn powder					i H <sub>2</sub> O, EtOH; s acid
944	Copper(II) azide	Cu(N <sub>3</sub> ) <sub>2</sub>	14215-30-6	147.586	brn orth cry; exp			≈2.6		
945	Copper(II) borate	Cu(BO <sub>2</sub> ) <sub>2</sub>	39290-85-2	149.166	blue-grn powder			3.859		i H <sub>2</sub> O; s acid
946	Copper(II) bromide	CuBr <sub>2</sub>	7789-45-9	223.354	blk monocl cry; hyg	498	900	4.710	126 <sup>25</sup>	vs H <sub>2</sub> O; s EtOH, ace; i bz, eth
947	Copper(II) butanoate monohydrate	Cu(C <sub>4</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	540-16-9	255.756	grn monocl plates					s H <sub>2</sub> O, diox, bz; sl EtOH
948	Copper(II) carbonate	CuCO <sub>3</sub>	1184-64-1	123.555	cry					i H <sub>2</sub> O
949	Copper(II) carbonate hydroxide	CuCO <sub>3</sub> · Cu(OH) <sub>2</sub>	12069-69-1	221.116	grn monocl cry	200 dec		4.0		i H <sub>2</sub> O, EtOH; s dil acid
950	Copper(II) chlorate hexahydrate	Cu(ClO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	14721-21-2	338.540	blue-grn hyg cry	65	100 dec		164 <sup>18</sup>	vs EtOH
951	Copper(II) chloride	CuCl <sub>2</sub>	7447-39-4	134.452	yel-brn monocl cry; hyg	598	993	3.4	75.7 <sup>25</sup>	s EtOH, ace
952	Copper(II) chloride dihydrate	CuCl <sub>2</sub> · 2H <sub>2</sub> O	10125-13-0	170.483	grn-blue orth cry; hyg	100 dec		2.51	75.7 <sup>20</sup>	vs EtOH, MeOH; s ace; i eth
953	Copper(II) chloride hydroxide	Cu <sub>2</sub> (OH) <sub>3</sub> Cl	1332-65-6	213.567	pale grn cry					i H <sub>2</sub> O; s acid
954	Copper(II) chromate	CuCrO <sub>4</sub>	13548-42-0	179.540	red-brn cry					i H <sub>2</sub> O; s EtOH
955	Copper(II) basic chromate	CuCrO <sub>4</sub> · 2Cu(OH) <sub>2</sub>	12433-14-6	374.661	brn pow	dec 260				i H <sub>2</sub> O; s HNO <sub>3</sub>
956	Copper(II) chromite	CuCr <sub>2</sub> O <sub>4</sub>	12018-10-9	231.536	gray-blk tetr cry			5.4		i H <sub>2</sub> O, dil acid
957	Copper(II) citrate hemipentahydrate	Cu <sub>2</sub> C <sub>6</sub> H <sub>7</sub> O <sub>2</sub> · 2.5H <sub>2</sub> O	10402-15-0	360.221	blue-grn cry	100 dec				sl H <sub>2</sub> O; s dil acid
958	Copper(II) cyanide	Cu(CN) <sub>2</sub>	14763-77-0	115.580	grn powder					i H <sub>2</sub> O; s acid, alk
959	Copper(II) cyclohexanecarboxylate	Cu(C <sub>10</sub> H <sub>17</sub> O <sub>2</sub> ) <sub>2</sub>	2218-80-6	402.028	powder	126 dec				
960	Copper(II) dichromate dihydrate	CuCr <sub>2</sub> O <sub>7</sub> · 2H <sub>2</sub> O	13675-47-3	315.565	red-brn tricl cry			2.286		vs H <sub>2</sub> O
961	Copper(II) ethanolate	Cu(C <sub>2</sub> H <sub>5</sub> O) <sub>2</sub>	2850-65-9	153.667	blue hyg solid	120 dec				i os
962	Copper(II) ethylacetoacetate	Cu(C <sub>8</sub> H <sub>13</sub> CO <sub>2</sub> CHCOCH <sub>3</sub> ) <sub>2</sub>	14284-06-1	321.813	grn cry	192				s EtOH, chl

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
963	Copper(II) 2-ethylhexanoate	Cu(C <sub>8</sub> H <sub>16</sub> O <sub>2</sub> ) <sub>2</sub>	149-11-1	349.953	powder	252 dec				
964	Copper(II) ferrate	CuFe <sub>2</sub> O <sub>4</sub>	12018-79-0	239.234	blk cry					
965	Copper(II) ferrocyanide	Cu <sub>2</sub> Fe(CN) <sub>6</sub>	13601-13-3	339.041	red-br cub cry or powder			2.2		i H <sub>2</sub> O, acid, os
966	Copper(II) ferrous sulfide	CuFeS <sub>2</sub>	1308-56-1	183.521	yel tetr cry	950		4.2		i H <sub>2</sub> O, HCl; s HNO <sub>3</sub>
967	Copper(II) fluoride	CuF <sub>2</sub>	7789-19-7	101.543	wh monoc cry	836	1676	4.23	0.075 <sup>25</sup>	
968	Copper(II) fluoride dihydrate	CuF <sub>2</sub> · 2H <sub>2</sub> O	13454-88-1	137.574	blue monoc cry	130 dec		2.934	0.075 <sup>25</sup>	
969	Copper(II) formate	Cu(CHO <sub>2</sub> ) <sub>2</sub>	544-19-4	153.581	blue cry				12.5 <sup>20</sup>	i os
970	Copper(II) formate tetrahydrate	Cu(CHO <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	5893-61-8	225.641	blue monoc cry				12.5	sl EtOH; i os
971	Copper(II) gluconate	CuC <sub>12</sub> H <sub>22</sub> O <sub>14</sub>	527-09-3	453.841	bl-grn cry	156				sl EtOH; i os
972	Copper(II) hexafluoro-2,4-pentanedioate	Cu(CF <sub>3</sub> COCHCOCF <sub>3</sub> ) <sub>2</sub>	14781-45-4	477.648	cry	98	220 dec			s MeOH, ace, tol
973	Copper(II) hexafluorosilicate tetrahydrate	CuSiF <sub>6</sub> · 4H <sub>2</sub> O	12062-24-7	277.684	blue monoc cry	dec		2.56	99.7 <sup>17</sup>	sl EtOH
974	Copper(II) hydroxide	Cu(OH) <sub>2</sub>	20427-59-2	97.561	blue-grn powder			3.37		i H <sub>2</sub> O; s acid, conc alk
975	Copper(II) iodate	Cu(IO <sub>3</sub> ) <sub>2</sub>	13454-89-2	413.351	grn monoc cry	dec		5.241	0.15 <sup>20</sup>	s dil acid
976	Copper(II) iodate monohydrate	Cu(IO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	13454-90-5	431.367	blue tricr cry	248 dec		4.872	0.15 <sup>20</sup>	s dil H <sub>2</sub> SO <sub>4</sub>
977	Copper(II) molybdate	CuMoO <sub>4</sub>	13767-34-5	223.48	grn cry	≈500		3.4	0.038	
978	Copper(II) nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	3251-23-8	187.555	blue-grn orth cry; hyg	255	subl		145 <sup>25</sup>	s diox; reac eth
979	Copper(II) nitrate trihydrate	Cu(NO <sub>3</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	10031-43-3	241.602	blue rhomb cry	114	170 dec	2.32	145 <sup>25</sup>	vs EtOH
980	Copper(II) nitrate hexahydrate	Cu(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13478-38-1	295.647	blue rhomb cry; hyg			2.07	145 <sup>25</sup>	s EtOH
981	Copper(II) oleate	Cu(C <sub>18</sub> H <sub>33</sub> O <sub>2</sub> ) <sub>2</sub>	1120-44-1	626.453	blue-grn solid					i H <sub>2</sub> O; sl EtOH; s eth
982	Copper(II) oxalate	CuC <sub>2</sub> O <sub>4</sub>	814-91-5	151.565	blue-wh powder	310 dec			0.0026 <sup>20</sup>	i EtOH, eth; s NH <sub>4</sub> OH
983	Copper(II) oxalate hemihydrate	CuC <sub>2</sub> O <sub>4</sub> · 0.5H <sub>2</sub> O	814-91-5*	144.573	blue-wh cry	200 dec			0.0026 <sup>20</sup>	s NH <sub>4</sub> OH
984	Copper(II) oxide	CuO	1317-38-0	79.545	blk powder or monoc cry	1227		6.31		i H <sub>2</sub> O, EtOH; s dil acid
985	Copper(II) 2,4-pentanedioate	Cu(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	13395-16-9	261.762	blue powder	284 dec	subl			sl H <sub>2</sub> O; s chl
986	Copper(II) oxychloride hemihydrate	CuCl <sub>2</sub> · 3CuO · 3.5H <sub>2</sub> O	1332-40-7		blue-grn pow	dec 140				i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
987	Copper(II) perchlorate	Cu(ClO <sub>4</sub> ) <sub>2</sub>	13770-18-8	262.447	grn hyg cry	130 dec			146 <sup>30</sup>	s eth, diox; i bz, ctc
988	Copper(II) perchlorate hexahydrate	Cu(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10294-46-9	370.539	blue monoc cry; hyg	82	120 dec	2.22	146 <sup>30</sup>	vs EtOH, HOAc, ace; sl eth
989	Copper(II) phosphate	Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7798-23-4	380.581	blue-grn tricr cry					i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
990	Copper(II) phosphate trihydrate	Cu <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	10031-48-8	434.627	blue-grn orth cry					i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
991	Copper(II) phthalocyanine	CuC <sub>32</sub> H <sub>16</sub> N <sub>8</sub>	147-14-8	576.069	bl-purp cry					i H <sub>2</sub> O, EtOH; s conc H <sub>2</sub> SO <sub>4</sub>
992	Copper(II) selenate pentahydrate	CuSeO <sub>4</sub> · 5H <sub>2</sub> O	10031-45-5	296.58	blue tricr cry	80 dec		2.56	27.4 <sup>25</sup>	s acid, NH <sub>4</sub> OH; sl ace; i EtOH
993	Copper(II) selenide	CuSe	1317-41-5	142.51	blue-blk needles or plates	550 dec		5.99		reac acid
994	Copper(II) selenite dihydrate	CuSeO <sub>3</sub> · 2H <sub>2</sub> O	15168-20-4	226.54	blue orth cry			3.31		i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
995	Copper(II) silicate dihydrate	CuSiO <sub>3</sub> · 2H <sub>2</sub> O	26318-99-0	175.661	grn-blue orth cry					
996	Copper(II) stannate	CuSnO <sub>3</sub>	12019-07-7	230.254	blue pow					
997	Copper(II) stearate	Cu(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	660-60-6	630.485	blue-grn amorp powder	≈250				i H <sub>2</sub> O, EtOH, eth; s py
998	Copper(II) sulfate	CuSO <sub>4</sub>	7758-98-7	159.609	wh-grn amorp powder or rhomb cry	560 dec		3.60	22.0 <sup>25</sup>	i EtOH
999	Copper(II) sulfate pentahydrate	CuSO <sub>4</sub> · 5H <sub>2</sub> O	7758-99-8	249.685	blue tricr cry	110 dec		2.286	22.0 <sup>25</sup>	s MeOH; sl EtOH
1000	Copper(II) sulfate, basic	Cu <sub>2</sub> (OH) <sub>2</sub> SO <sub>4</sub>	1332-14-5	354.730	grn rhomb cry			3.88		i H <sub>2</sub> O
1001	Copper(II) sulfide	CuS	1317-40-4	95.611	blk hex cry	trans 507		4.76		i H <sub>2</sub> O, EtOH, dil acid, alk
1002	Copper(II) tartrate trihydrate	Cu <sub>2</sub> C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> · 3H <sub>2</sub> O	815-82-7	265.663	blue-grn powder					sl H <sub>2</sub> O; s acid, alk
1003	Copper(II) telluride	CuTe	12019-23-7	191.15	yel orth cry	trans ≈400		7.09		
1004	Copper(II) tellurite	CuTeO <sub>3</sub>	13812-58-3	239.14	blk glassy solid					i H <sub>2</sub> O
1005	Copper(II) tetrafluoroborate	Cu(BF <sub>4</sub> ) <sub>2</sub>	14735-84-3	237.155	solid					s H <sub>2</sub> O
1006	Copper(II) titanate	CuTiO <sub>3</sub>	12019-08-8	159.411	gray pow					
1007	Copper(II) 1,1,1-trifluoro-2,4-pentanedioate	Cu(CF <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	14324-82-4	369.705	blue-purp cry	197	dec 260			s EtOH, tol
1008	Copper(II) tungstate	CuWO <sub>4</sub>	13587-35-4	311.38	yel-brn powder			7.5		
1009	Copper(II) tungstate dihydrate	CuWO <sub>4</sub> · 2H <sub>2</sub> O	13587-35-4*	347.41	grn powder					i H <sub>2</sub> O; sl HOAc; reac conc acid
1010	Copper(II) vanadate	Cu(VO <sub>3</sub> ) <sub>2</sub>	12789-09-2	261.425	powder					

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1011	Curium	Cm	7440-51-9	247	silv metal; hex or cub	1345	≈3100	13.51		
1012	Dysprosium	Dy	7429-91-6	162.500	silv metal; hex	1412	2567	8.55		s dil acid
1013	Dysprosium boride	DyB <sub>4</sub>	12310-43-9	205.744	tetr cry	2500		6.98		
1014	Dysprosium nitride	DyN	12019-88-4	176.507	cub cry			9.93		
1015	Dysprosium silicide	DySi <sub>2</sub>	12133-07-2	218.671	orth cry	1550		5.2		
1016	Dysprosium(II) bromide	DyBr <sub>2</sub>	83229-05-4	322.308	blk solid					
1017	Dysprosium(II) chloride	DyCl <sub>2</sub>	13767-31-2	233.406	blk cry	721 dec				reac H <sub>2</sub> O
1018	Dysprosium(II) iodide	DyI <sub>2</sub>	36377-94-3	416.309	purp cry	659				reac H <sub>2</sub> O
1019	Dysprosium(III) acetate tetrahydrate	Dy(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · 4H <sub>2</sub> O	15280-55-4	411.693	yel needles	dec 120				s H <sub>2</sub> O; sl EtOH
1020	Dysprosium(III) bromide	DyBr <sub>3</sub>	14456-48-5	402.212	wh hyg cry	879				s H <sub>2</sub> O
1021	Dysprosium(III) carbonate tetrahydrate	Dy <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> · 4H <sub>2</sub> O	38245-35-1	577.088	wh cry pow					i H <sub>2</sub> O
1022	Dysprosium(III) chloride	DyCl <sub>3</sub>	10025-74-8	268.859	wh or yel cry	718	1530	3.67		s H <sub>2</sub> O, MeOH
1023	Dysprosium(III) chloride hexahydrate	DyCl <sub>3</sub> · 6H <sub>2</sub> O	15059-52-6	376.950	bright yel cry	dec 162				
1024	Dysprosium(III) fluoride	DyF <sub>3</sub>	13569-80-7	219.495	grn cry	1157				
1025	Dysprosium(III) hydride	DyH <sub>3</sub>	13537-09-2	165.524	hex cry			7.1		
1026	Dysprosium(III) hydroxide	Dy(OH) <sub>3</sub>	1308-85-6	213.522	yel or wh needles	205 dec				i H <sub>2</sub> O
1027	Dysprosium(III) iodide	DyI <sub>3</sub>	15474-63-2	543.213	grn cry	978				
1028	Dysprosium(III) nitrate pentahydrate	Dy(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	10143-38-1*	438.591	yel cry	88.6			208.4 <sup>25</sup>	
1029	Dysprosium(III) oxide	Dy <sub>2</sub> O <sub>3</sub>	1308-87-8	372.998	wh cub cry	2228	3900	7.81		s acid
1030	Dysprosium(III) sulfate octahydrate	Dy <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	10031-50-2	757.310	pale yel cry	110				sl H <sub>2</sub> O
1031	Dysprosium(III) sulfide	Dy <sub>2</sub> S <sub>3</sub>	12133-10-7	421.195	red-brn monocl cry			6.08		
1032	Dysprosium(III) telluride	Dy <sub>2</sub> Te <sub>3</sub>	12159-43-2	707.80	solid	≈1550				
1033	Einsteinium	Es	7429-92-7	252	metal; cub	860				
1034	Erbium	Er	7440-52-0	167.259	silv metal; hex	1529	2868	9.07		i H <sub>2</sub> O; s acid
1035	Erbium boride	ErB <sub>4</sub>	12310-44-0	210.503	tetr cry	2450		7.0		
1036	Erbium acetate tetrahydrate	Er(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · 4H <sub>2</sub> O	15280-57-6	416.452	pink or wh cry			2.11		s H <sub>2</sub> O
1037	Erbium bromide	ErBr <sub>3</sub>	13536-73-7	406.971	viol hyg cry	950	≈1460			s H <sub>2</sub> O, thf
1038	Erbium bromide hexahydrate	ErBr <sub>3</sub> · 6H <sub>2</sub> O	14890-44-9	515.062	pink cry					s H <sub>2</sub> O
1039	Erbium chloride	ErCl <sub>3</sub>	10138-41-7	273.618	viol monocl cry; hyg	776		4.1		s H <sub>2</sub> O
1040	Erbium chloride hexahydrate	ErCl <sub>3</sub> · 6H <sub>2</sub> O	10025-75-9	381.709	pink hyg cry	dec				s H <sub>2</sub> O; sl EtOH
1041	Erbium fluoride	ErF <sub>3</sub>	13760-83-3	224.254	pink orth cry	1146		7.8		i H <sub>2</sub> O
1042	Erbium hydride	ErH <sub>3</sub>	13550-53-3	170.283	hex cry			≈7.6		
1043	Erbium hydroxide	Er(OH) <sub>3</sub>	14646-16-3	218.281	pink solid					i H <sub>2</sub> O
1044	Erbium iodide	ErI <sub>3</sub>	13813-42-8	547.972	viol hex cry; hyg	1014		≈5.5		s H <sub>2</sub> O
1045	Erbium nitrate pentahydrate	Er(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	10168-80-6*	443.350	red cry	130 dec			240.8 <sup>25</sup>	s EtOH, ace
1046	Erbium nitride	ErN	12020-21-2	181.266	cub cry			10.6		
1047	Erbium oxide	Er <sub>2</sub> O <sub>3</sub>	12061-16-4	382.516	pink powder	2344	3920	8.64		i H <sub>2</sub> O; s acid
1048	Erbium silicide	ErSi <sub>2</sub>	12020-28-9	223.430	orth cry			7.26		
1049	Erbium sulfate	Er <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13478-49-4	622.706	hyg powder	dec		3.68	13 <sup>20</sup>	
1050	Erbium sulfate octahydrate	Er <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	10031-52-4	766.828	pink monocl cry	dec		3.20	13 <sup>20</sup>	
1051	Erbium sulfide	Er <sub>2</sub> S <sub>3</sub>	12159-66-9	430.713	red-brn monocl cry	1730		6.07		
1052	Erbium telluride	Er <sub>2</sub> Te <sub>3</sub>	12020-39-2	717.32	orth cry	1213		7.11		
1053	Europium	Eu	7440-53-1	151.964	soft silv metal; cub	822	1529	5.24		reac H <sub>2</sub> O
1054	Europium boride	EuB <sub>3</sub>	12008-05-8	216.830	cub cry	≈2600		4.91		
1055	Europium nitride	EuN	12020-58-5	165.971	cub cry			8.7		
1056	Europium silicide	EuSi <sub>2</sub>	12434-24-1	208.135	tetr cry	1500		5.46		
1057	Europium(II) bromide	EuBr <sub>2</sub>	13780-48-8	311.772	wh cry	683				s H <sub>2</sub> O
1058	Europium(II) chloride	EuCl <sub>2</sub>	13769-20-5	222.870	wh orth cry	731		4.9		s H <sub>2</sub> O
1059	Europium(II) fluoride	EuF <sub>2</sub>	14077-39-5	189.961	grn-yel cub cry	≈1380		6.5		
1060	Europium(II) iodide	EuI <sub>2</sub>	22015-35-6	405.773	grn cry	580				s H <sub>2</sub> O
1061	Europium(II) selenide	EuSe	12020-66-5	230.92	brn cub cry			6.45		
1062	Europium(II) sulfate	EuSO <sub>4</sub>	10031-54-6	248.027	col orth cry			4.99		i H <sub>2</sub> O
1063	Europium(II) sulfide	EuS	12020-65-4	184.029	cub cry			5.7		
1064	Europium(II) telluride	EuTe	12020-69-8	279.56	blk cub cry	1526		6.48		
1065	Europium(III) bromide	EuBr <sub>3</sub>	13759-88-1	391.676	gray cry	dec				s H <sub>2</sub> O
1066	Europium(III) chloride	EuCl <sub>3</sub>	10025-76-0	258.323	grn-yel needles	623		4.89		
1067	Europium(III) chloride hexahydrate	EuCl <sub>3</sub> · 6H <sub>2</sub> O	13759-92-7	366.414	wh-yel hyg cry	850		4.89		s H <sub>2</sub> O
1068	Europium(III) fluoride	EuF <sub>3</sub>	13765-25-8	208.959	wh hyg cry	1276				i H <sub>2</sub> O
1069	Europium(III) iodide	EuI <sub>3</sub>	13759-90-5	532.677	col cry; unstab	≈875				
1070	Europium(III) nitrate hexahydrate	Eu(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	10031-53-5	446.070	wh-pink hyg cry	85 dec			193 <sup>25</sup>	
1071	Europium(III) oxalate	Eu <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>	3269-12-3	567.985	wh solid					i H <sub>2</sub> O; s acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1072	Europium(III) oxide	Eu <sub>2</sub> O <sub>3</sub>	1308-96-9	351.926	pink powder	2291	3790	7.42		i H <sub>2</sub> O; s acid
1073	Europium(III) perchlorate hexahydrate	Eu(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	36907-40-1	558.407	wh or pink cry					s H <sub>2</sub> O, EtOH
1074	Europium(III) sulfate	Eu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13537-15-0	592.116	pale pink cry			4.99	2.1 <sup>20</sup>	
1075	Europium(III) sulfate octahydrate	Eu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	10031-52-4	736.238	pink cry	375 dec			2.1 <sup>20</sup>	
1076	Fermium	Fm	7440-72-4	257	metal	1527				
1077	Fluorine	F <sub>2</sub>	7782-41-4	37.997	pale yel gas	-219.67 tp	-188.12	1.553 g/L		reac H <sub>2</sub> O
1078	Fluorine monoxide	F <sub>2</sub> O	7783-41-7	53.996	col gas	-223.8	-144.3	2.207 g/L		sl H <sub>2</sub> O
1079	Difluorine dioxide	F <sub>2</sub> O <sub>2</sub>	7783-44-0	69.996	red-oran solid, unstab gas	-163.5	-57 (extrap)	2.861 g/L		
1080	Fluorine tetroxide	F <sub>2</sub> O <sub>4</sub>	107782-11-6	101.995	red-brn solid	-191	dec -185			
1081	Fluorine nitrate	FNO <sub>3</sub>	7789-26-6	81.003	col gas	-175	-46	3.311 g/L		reac H <sub>2</sub> O, EtOH, eth; s ace
1082	Fluorine perchlorate	FOClO <sub>3</sub>	10049-03-3	118.449	col gas; exp	-167.3	-16	4.841 g/L		reac H <sub>2</sub> O
1083	Francium	Fr	7440-73-5	223.000	short-lived alkali metal	27				
1084	Gadolinium	Gd	7440-54-2	157.25	silv metal; hex	1313	3273	7.90		s dil acid
1085	Gadolinium boride	GdB <sub>6</sub>	12008-06-9	222.12	blk-brn cub cry	2510		5.31		
1086	Gadolinium nitride	GdN	25764-15-2	171.26	cub cry			9.10		
1087	Gadolinium silicide	GdSi <sub>2</sub>	12134-75-7	213.42	orth cry	1540		5.9		
1088	Gadolinium(II) iodide	GdI <sub>2</sub>	13814-72-7	411.06	bronze cry	831				
1089	Gadolinium(II) selenide	GdSe	12024-81-6	236.21	cub cry	2170		8.1		
1090	Gadolinium(III) acetate tetrahydrate	Gd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	15280-53-2	406.44	wh tricr cry	dec		1.61		s H <sub>2</sub> O
1091	Gadolinium(III) bromide	GdBr <sub>3</sub>	13818-75-2	396.96	wh monocry; hyg	770		4.56		
1092	Gadolinium(III) chloride	GdCl <sub>3</sub>	10138-52-0	263.61	wh monocry; hyg	602		4.52		s H <sub>2</sub> O
1093	Gadolinium(III) chloride hexahydrate	GdCl <sub>3</sub> · 6H <sub>2</sub> O	19423-81-5	371.70	col hyg cry			2.424		s H <sub>2</sub> O
1094	Gadolinium(III) fluoride	GdF <sub>3</sub>	13765-26-9	214.25	wh cry	1232				
1095	Gadolinium(III) iodide	GdI <sub>3</sub>	13572-98-0	537.96	yel cry	930				
1096	Gadolinium(III) nitrate pentahydrate	Gd(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	52788-53-1	433.34	wh cry	92 dec		2.41	190 <sup>25</sup>	
1097	Gadolinium(III) nitrate hexahydrate	Gd(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	19598-90-4	451.36	hyg tricr cry	91 dec		2.33	190 <sup>25</sup>	s EtOH
1098	Gadolinium(III) oxalate decahydrate	Gd <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 10H <sub>2</sub> O	22992-15-0	758.71	wh monocry pow	dec 110				i H <sub>2</sub> O; sl acid
1099	Gadolinium(III) oxide	Gd <sub>2</sub> O <sub>3</sub>	12064-62-9	362.50	wh hyg powder	2339	3900	7.07		i H <sub>2</sub> O; s acid
1100	Gadolinium(III) sulfate	Gd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13628-54-1	602.69	col cry	500 dec		4.1	2.60 <sup>20</sup>	sl H <sub>2</sub> O
1101	Gadolinium(III) sulfate octahydrate	Gd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13450-87-8	746.81	col monocry	400 dec		4.14	2.3 <sup>20</sup>	sl H <sub>2</sub> O
1102	Gadolinium(III) sulfide	Gd <sub>2</sub> S <sub>3</sub>	12134-77-9	410.70	yel cub cry			6.1		
1103	Gadolinium(III) telluride	Gd <sub>2</sub> Te <sub>3</sub>	12160-99-5	697.30	orth cry	1255		7.7		
1104	Gallium	Ga	7440-55-3	69.723	silv liq or gray orth cry	29.7666 tp	2204	5.91		reac alk
1105	Gallium antimonide	GaSb	12064-03-8	191.483	brn cub cry	712		5.6137		
1106	Gallium arsenide	GaAs	1303-00-0	144.645	gray cub cry	1238		5.3176		
1107	Gallium nitride	GaN	25617-97-4	83.730	gray hex cry	>2500		6.1		
1108	Gallium phosphide	GaP	12063-98-8	100.697	yel cub cry	1457		4.138		
1109	Gallium suboxide	Ga <sub>2</sub> O	12024-20-3	155.445	brn powder	>660	>800 dec	4.77		
1110	Gallium(II) chloride	GaCl <sub>2</sub>	24597-12-4	140.629	wh orth cry	172.4	535	2.74		
1111	Gallium(II) selenide	GaSe	12024-11-2	148.68	hex cry	960		5.03		
1112	Gallium(II) sulfide	GaS	12024-10-1	101.788	hex cry	965		3.86		
1113	Gallium(II) telluride	GaTe	12024-14-5	197.32	monocry	824		5.44		
1114	Gallium(III) bromide	GaBr <sub>3</sub>	13450-88-9	309.435	wh orth cry	123	279	3.69		
1115	Gallium(III) chloride	GaCl <sub>3</sub>	13450-90-3	176.082	col needles or gl solid	77.9	201	2.47		
1116	Gallium(III) fluoride	GaF <sub>3</sub>	7783-51-9	126.718	wh powder or col needles	>1000		4.47		i H <sub>2</sub> O
1117	Gallium(III) fluoride trihydrate	GaF <sub>3</sub> · 3H <sub>2</sub> O	22886-66-4	180.764	wh cry	>140 dec				sl H <sub>2</sub> O
1118	Gallium(III) hydride	GaH <sub>3</sub>	13572-93-5	72.747	visc liq	-15	≈0 dec			
1119	Gallium(III) hydroxide	Ga(OH) <sub>3</sub>	12023-99-3	120.745	unstab prec					
1120	Gallium(III) iodide	GaI <sub>3</sub>	13450-91-4	450.436	monocry	212	340	4.5		
1121	Gallium(III) nitrate	Ga(NO <sub>3</sub> ) <sub>3</sub>	13494-90-1	255.738	wh cry powder					s H <sub>2</sub> O, EtOH, eth
1122	Gallium(III) oxide	Ga <sub>2</sub> O <sub>3</sub>	12024-21-4	187.444	wh cry	1807		≈6.0		s hot acid
1123	Gallium(III) oxide hydroxide	GaOOH	20665-52-5	102.730	orth cry			5.23		
1124	Gallium(III) 2,4-pentanedioate	Ga(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	14405-43-7	367.047	wh powder	193	subl	1.42		
1125	Gallium(III) perchlorate hexahydrate	Ga(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	17835-81-3	476.166	cry	dec 175				
1126	Gallium(III) selenide	Ga <sub>2</sub> Se <sub>3</sub>	12024-24-7	376.33	cub cry	937		4.92		
1127	Gallium(III) sulfate	Ga <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13494-91-2	427.634	hex cry					
1128	Gallium(III) sulfate octadecahydrate	Ga <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 18H <sub>2</sub> O	13780-42-2	751.909	octahed cry					s H <sub>2</sub> O, EtOH
1129	Gallium(III) sulfide	Ga <sub>2</sub> S <sub>3</sub>	12024-22-5	235.641	monocry	1090		3.7		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1130	Gallium(III) telluride	Ga <sub>2</sub> Te <sub>3</sub>	12024-27-0	522.25	cub cry	790		5.57		
1131	Germanium	Ge	7440-56-4	72.64	gray-wh cub cry	938.25	2833	5.3234		i H <sub>2</sub> O, dil acid, alk
1132	Germane	GeH <sub>4</sub>	7782-65-2	76.67	col gas; flam	-165	-88.1	3.133 g/L		i H <sub>2</sub> O
1133	Digermane	Ge <sub>2</sub> H <sub>6</sub>	13818-89-8	151.33	col liq; flam	-109	29	1.98 <sup>109</sup>		
1134	Trigermane	Ge <sub>3</sub> H <sub>8</sub>	14691-44-2	225.98	col liq	-105.6	110.5	2.20 <sup>105</sup>		i H <sub>2</sub> O
1135	Tetragermane	Ge <sub>4</sub> H <sub>10</sub>	14691-47-5	300.64	col liq		176.9			i H <sub>2</sub> O
1136	Pentagermane	Ge <sub>5</sub> H <sub>12</sub>	15587-39-0	375.30	col liq		234			i H <sub>2</sub> O
1137	Bromogermane	GeH <sub>3</sub> Br	13569-43-2	155.57	col liq	-32	52	2.34		reac H <sub>2</sub> O
1138	Chlorogermane	GeH <sub>3</sub> Cl	13637-65-5	111.12	col liq	-52	28	1.75		reac H <sub>2</sub> O
1139	Chlorotrifluorogermane	GeF <sub>3</sub> Cl	14188-40-0	165.09	gas	-66.2	-20.3	6.747 g/L		
1140	Dibromogermane	GeH <sub>2</sub> Br <sub>2</sub>	13769-36-3	234.46	col liq	-15	89	2.80		reac H <sub>2</sub> O
1141	Dichlorogermane	GeH <sub>2</sub> Cl <sub>2</sub>	15230-48-5	145.56	col liq	-68	69.5	1.90		reac H <sub>2</sub> O
1142	Dichlorodifluorogermane	GeF <sub>2</sub> Cl <sub>2</sub>	24422-21-7	181.54	col gas	-51.8	-2.8	7.419 g/L		
1143	Dichlorodimethylgermane	Ge(CH <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub>	1529-48-2	173.62	liq	-22	124	1.49		
1144	Fluorogermane	GeH <sub>3</sub> F	13537-30-9	94.66	col gas			3.868 g/L		reac H <sub>2</sub> O
1145	Iodogermane	GeH <sub>3</sub> I	13573-02-9	202.57	liq	-15	≈90			reac H <sub>2</sub> O
1146	Methylgermane	GeH <sub>3</sub> CH <sub>3</sub>	1449-65-6	90.70	col gas	-158	-23	3.706 g/L		
1147	Tribromogermane	GeHBr <sub>3</sub>	14779-70-5	313.36	col liq	-25	dec			reac H <sub>2</sub> O
1148	Trichlorogermane	GeHCl <sub>3</sub>	1184-65-2	180.01	liq	-71	75.3	1.93		reac H <sub>2</sub> O
1149	Trichlorofluorogermane	GeCl <sub>2</sub> F	24422-20-6	198.00	liq	-49.8	37.5			
1150	Germanium(II) bromide	GeBr <sub>2</sub>	24415-00-7	232.45	yel monocl cry	122	150 dec			reac H <sub>2</sub> O
1151	Germanium(II) chloride	GeCl <sub>2</sub>	10060-11-4	143.55	wh-yel hyg powder	dec				reac H <sub>2</sub> O; s eth, bz
1152	Germanium(II) fluoride	GeF <sub>2</sub>	13940-63-1	110.64	wh orth cry; hyg	110	130 dec	3.64		reac H <sub>2</sub> O
1153	Germanium(II) iodide	GeI <sub>2</sub>	13573-08-5	326.45	oran-yel hex cry	428	550 dec	5.4		reac H <sub>2</sub> O
1154	Germanium(II) oxide	GeO	20619-16-3	88.64	blk solid	700 dec				
1155	Germanium(II) selenide	GeSe	12065-10-0	151.60	gray orth cry or brn powder	675		5.6		
1156	Germanium(II) sulfide	GeS	12025-32-0	104.71	gray orth cry	658		4.1		
1157	Germanium(II) telluride	GeTe	12025-39-7	200.24	cub cry	724		6.16		i H <sub>2</sub> O; s conc HNO <sub>3</sub>
1158	Germanium(IV) bromide	GeBr <sub>4</sub>	13450-92-5	392.26	wh cry	26.1	186.35	3.132		reac H <sub>2</sub> O
1159	Germanium(IV) chloride	GeCl <sub>4</sub>	10038-98-9	214.45	col liq	-51.50	86.55	1.88		reac H <sub>2</sub> O; s bz, eth, EtOH, ctc
1160	Germanium(IV) fluoride	GeF <sub>4</sub>	7783-58-6	148.63	col gas	-15 tp	-36.5 sp	6.074 g/L		reac H <sub>2</sub> O
1161	Germanium(IV) iodide	GeI <sub>4</sub>	13450-95-8	580.26	red-oran cub cry	146	348	4.322		reac H <sub>2</sub> O
1162	Germanium(IV) nitride	Ge <sub>3</sub> N <sub>4</sub>	12065-36-0	273.95	orth cry	900 dec				i H <sub>2</sub> O, acid, aqua regia
1163	Germanium(IV) oxide	GeO <sub>2</sub>	1310-53-8	104.64	wh hex cry	1116		4.25		i H <sub>2</sub> O
1164	Germanium(IV) selenide	GeSe <sub>2</sub>	12065-11-1	230.56	yel-oran orth cry	707 dec		4.56		
1165	Germanium(IV) sulfide	GeS <sub>2</sub>	12025-34-2	136.77	blk orth cry	530		3.01		
1166	Gold	Au	7440-57-5	196.967	soft yel metal	1064.18	2856	19.3		s aqua regia
1167	Bromoauric(III) acid pentahydrate	HAuBr <sub>4</sub> · 5H <sub>2</sub> O	17083-68-0	607.667	red-brn hyg cry	27				s H <sub>2</sub> O, EtOH
1168	Chloroauric(III) acid tetrahydrate	HAuCl <sub>4</sub> · 4H <sub>2</sub> O	16903-35-8	411.848	yel monocl cry; hyg			≈3.9		vs H <sub>2</sub> O, EtOH; s eth
1169	Gold(I) bromide	AuBr	10294-27-6	276.871	yel-gray tetr cry	165 dec		8.20		i H <sub>2</sub> O
1170	Gold(I) chloride	AuCl	10294-29-8	232.420	yel orth cry	289 dec		7.6	0.000031 <sup>20</sup>	
1171	Gold(I) cyanide	AuCN	506-65-0	222.985	yel hex cry	dec		7.2		i H <sub>2</sub> O, EtOH, eth, dil acid
1172	Gold(I) iodide	AuI	10294-31-2	323.871	yel-grn powder; tetr	120 dec		8.25		i H <sub>2</sub> O; s CN soln
1173	Gold(I) sulfide	Au <sub>2</sub> S	1303-60-2	425.998	brn-blk cub cry; unstab	240 dec		≈11		i H <sub>2</sub> O, acid; s aqua regia
1174	Gold(III) bromide	AuBr <sub>3</sub>	10294-28-7	436.679	red-br monocl cry	≈160 dec				s H <sub>2</sub> O, EtOH
1175	Gold(III) chloride	AuCl <sub>3</sub>	13453-07-1	303.326	red monocl cry	>160 dec		4.7	68 <sup>20</sup>	
1176	Gold(III) cyanide trihydrate	Au(CN) <sub>3</sub> · 3H <sub>2</sub> O	535-37-5*	329.065	wh hyg cry	50 dec				vs H <sub>2</sub> O; sl EtOH
1177	Gold(III) fluoride	AuF <sub>3</sub>	14720-21-9	253.962	oran-yel hex cry	>300	subl	6.75		
1178	Gold(III) hydroxide	Au(OH) <sub>3</sub>	1303-52-2	247.989	brn powder	≈100 dec				i H <sub>2</sub> O; s acid
1179	Gold(III) iodide	AuI <sub>3</sub>	31032-13-0	577.680	unstab grn powder	20 dec				
1180	Gold(III) oxide	Au <sub>2</sub> O <sub>3</sub>	1303-58-8	441.931	brn powder	≈150 dec				i H <sub>2</sub> O; s acid
1181	Gold(III) selenate	Au <sub>2</sub> (SeO <sub>4</sub> ) <sub>3</sub>	10294-32-3	822.81	yel cry					i H <sub>2</sub> O; s acid
1182	Gold(III) selenide	Au <sub>2</sub> Se <sub>3</sub>	1303-62-4	630.81	blk amorp solid	dec		4.65		s aqua regia
1183	Gold(III) sulfide	Au <sub>2</sub> S <sub>3</sub>	1303-61-3	490.128	unstab blk powder	200 dec				
1184	Hafnium	Hf	7440-58-6	178.49	gray metal; hex	2233	4603	13.3		s HF
1185	Hafnium boride	HfB <sub>2</sub>	12007-23-7	200.11	gray hex cry	3100		10.5		
1186	Hafnium carbide	HfC	12069-85-1	190.50	refrac cub cry	≈3000		12.2		
1187	Hafnium hydride	HfH <sub>2</sub>	12770-26-2	180.51	refrac tetr cry			11.4		
1188	Hafnium nitride	HfN	25817-87-2	192.50	yel-brn cub cry	3310		13.8		
1189	Hafnium phosphide	HfP	12325-59-6	209.46	hex cry			9.78		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1190	Hafnium silicide	HfSi <sub>2</sub>	12401-56-8	234.66	gray orth cry	≈1700		7.6		
1191	Hafnocene dichloride	Hf(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> Cl <sub>2</sub>	12116-66-4	379.58	col hyg cry	235				s bz, chl; sl thf, eth; i hex
1192	Hafnium(II) bromide	HfBr <sub>2</sub>	13782-95-1	338.30	blue-blk cry	dec 400				
1193	Hafnium(II) chloride	HfCl <sub>2</sub>	13782-92-8	249.40	blk solid	dec 400				
1194	Hafnium(III) bromide	HfBr <sub>3</sub>	13782-96-2	418.20	blue-blk cry	dec 350				
1195	Hafnium(III) chloride	HfCl <sub>3</sub>	13782-93-9	284.85	blk solid	dec				
1196	Hafnium(III) iodide	HfI <sub>3</sub>	13779-73-2	559.20	blk cry	dec				
1197	Hafnium(IV) bromide	HfBr <sub>4</sub>	13777-22-5	498.11	wh cub cry	424 tp	323 sp	4.90		reac H <sub>2</sub> O
1198	Hafnium(IV) chloride	HfCl <sub>4</sub>	13499-05-3	320.30	wh monocl cry	432 tp	317 sp			reac H <sub>2</sub> O
1199	Hafnium(IV) fluoride	HfF <sub>4</sub>	13709-52-9	254.48	wh monocl cry	1025	970 sp	7.1		reac H <sub>2</sub> O
1200	Hafnium(IV) iodide	HfI <sub>4</sub>	13777-23-6	686.11	yel-oran cub cry	449 tp	394 sp	5.6		reac H <sub>2</sub> O
1201	Hafnium(IV) oxide	HfO <sub>2</sub>	12055-23-1	210.49	wh cub cry	2800	≈5400	9.68		i H <sub>2</sub> O
1202	Hafnium(IV) oxychloride octahydrate	HfOCl <sub>2</sub> · 8H <sub>2</sub> O	14456-34-9	409.52	wh tetr cry	dec				s H <sub>2</sub> O
1203	Hafnium(IV) selenide	HfSe <sub>2</sub>	12162-21-9	336.41	brn hex cry			7.46		
1204	Hafnium(IV) silicate	HfSiO <sub>4</sub>	13870-13-8	270.57	tetr cry	2758		7.0		
1205	Hafnium(IV) sulfate	Hf(SO <sub>4</sub> ) <sub>2</sub>	15823-43-5	370.62	wh cry	>500 dec				
1206	Hafnium(IV) sulfide	HfS <sub>2</sub>	18855-94-2	242.62	purp-brn hex cry			6.03		
1207	Hafnium(IV) titanate	HfTiO <sub>4</sub>	12055-24-2	290.36	wh pow	1980 dec				
1208	Helium	He	7440-59-7	4.003	col gas		-268.93	0.164 g/L		sl H <sub>2</sub> O; i EtOH
1209	Holmium	Ho	7440-60-0	164.930	silv metal; hex	1472	2700	8.80		s dil acid
1210	Holmium acetate	Ho(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	25519-09-9	342.062	yel cry	dec 327				s H <sub>2</sub> O
1211	Holmium bromide	HoBr <sub>3</sub>	13825-76-8	404.642	yel hyg cry	919	1470			
1212	Holmium chloride	HoCl <sub>3</sub>	10138-62-2	271.289	yel monocl cry; hyg	720	1500	3.7		s H <sub>2</sub> O
1213	Holmium chloride hexahydrate	HoCl <sub>3</sub> · 6H <sub>2</sub> O	14914-84-2	379.381	hyg yel cry	160 dec				s H <sub>2</sub> O
1214	Holmium fluoride	HoF <sub>3</sub>	13760-78-6	221.925	pink-yel orth cry; hyg	1143	>2200	7.664		s H <sub>2</sub> O
1215	Holmium iodide	HoI <sub>3</sub>	13813-41-7	545.643	yel hex cry	994		5.4		
1216	Holmium nitrate pentahydrate	Ho(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	14483-18-2	441.022	hyg oran cry					s H <sub>2</sub> O, EtOH, ace
1217	Holmium nitride	HoN	12029-81-1	178.937	cub cry			10.6		
1218	Holmium oxalate decahydrate	Ho <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>2</sub> · 10H <sub>2</sub> O	28965-57-3	774.070	yel solid	dec 40				
1219	Holmium oxide	Ho <sub>2</sub> O <sub>3</sub>	12055-62-8	377.859	yel cub cry	2330	3900	8.41		s acid
1220	Holmium silicide	HoSi <sub>2</sub>	12136-24-2	221.101	hex cry			7.1		
1221	Holmium sulfide	Ho <sub>2</sub> S <sub>3</sub>	12162-59-3	426.056	yel-oran monocl cry			5.92		
1222	Hydrazine	N <sub>2</sub> H <sub>4</sub>	302-01-2	32.045	col oily liq	1.54	113.55	1.0036		vs H <sub>2</sub> O, EtOH, MeOH
1223	Hydrazine acetate	N <sub>2</sub> H <sub>4</sub> · CH <sub>3</sub> COOH	13255-48-6	92.097	cry	100				
1224	Hydrazine azide	N <sub>2</sub> H <sub>4</sub> · HN <sub>3</sub>	14662-04-5	75.074	hyg wh prism	75 exp				vs H <sub>2</sub> O
1225	Hydrazine monohydrate	N <sub>2</sub> H <sub>4</sub> · H <sub>2</sub> O	7803-57-8	50.060	fuming liq	-51.7	119	1.030		vs H <sub>2</sub> O, EtOH; i chl, eth
1226	Hydrazine hydrobromide	N <sub>2</sub> H <sub>4</sub> · HBr	13775-80-9	112.957	wh monocl cry flakes	84	≈190 dec	2.3		s H <sub>2</sub> O, EtOH
1227	Hydrazine hydrochloride	N <sub>2</sub> H <sub>4</sub> · HCl	2644-70-4	68.506	wh orth cry	89	240 dec	1.5		s H <sub>2</sub> O; i os
1228	Hydrazine dihydrochloride	N <sub>2</sub> H <sub>4</sub> · 2HCl	5341-61-7	104.967	wh orth cry	198 dec		1.42		s H <sub>2</sub> O; sl EtOH
1229	Hydrazine hydroiodide	N <sub>2</sub> H <sub>4</sub> · HI	10039-55-1	159.957	hyg cry	125				s H <sub>2</sub> O
1230	Hydrazine nitrate	N <sub>2</sub> H <sub>4</sub> · HNO <sub>3</sub>	13464-97-6	95.058	monocl cry; exp	70				vs H <sub>2</sub> O
1231	Hydrazine dinitrate	N <sub>2</sub> H <sub>4</sub> · 2HNO <sub>3</sub>	13464-98-7	158.071	needles	104 dec			20 <sup>35</sup>	s H <sub>2</sub> O
1232	Hydrazine perchlorate hemihydrate	N <sub>2</sub> H <sub>4</sub> · HClO <sub>4</sub> · 0.5H <sub>2</sub> O	13762-65-7		solid	137	exp	1.94		reac H <sub>2</sub> O, s EtOH; i eth, bz
1233	Hydrazine sulfate	N <sub>2</sub> H <sub>4</sub> · H <sub>2</sub> SO <sub>4</sub>	10034-93-2	130.124	col orth cry	254		1.378		sl H <sub>2</sub> O; i EtOH
1234	Dihydrazine sulfate	(N <sub>2</sub> H <sub>4</sub> ) <sub>2</sub> · H <sub>2</sub> SO <sub>4</sub>	13464-80-7	162.169	hyg wh cry flakes	104	dec >180		200 <sup>25</sup>	vs H <sub>2</sub> O; i os
1235	Hydrazoic acid	HN <sub>3</sub>	7782-79-8	43.028	col liq; exp	-80	35.7			s H <sub>2</sub> O
1236	Hydroxylamine	H <sub>2</sub> NOH	7803-49-8	33.030	wh orth flakes or needles	33.1	58	1.21		vs H <sub>2</sub> O, MeOH
1237	Hydroxylamine hydrobromide	H <sub>2</sub> NOH · HBr	41591-55-3	113.942	monocl cry			2.35		s H <sub>2</sub> O
1238	Hydroxylamine hydrochloride	H <sub>2</sub> NOH · HCl	5470-11-1	69.491	col monocl cry	159 dec	exp	1.68	94 <sup>25</sup>	vs H <sub>2</sub> O
1239	Hydroxylamine perchlorate	H <sub>2</sub> NOH · HClO <sub>4</sub>		133.489	orth cry	88	dec 120			
1240	Hydroxylamine sulfate	2(H <sub>2</sub> NOH) · H <sub>2</sub> SO <sub>4</sub>	10039-54-0	164.138	cry	170				vs H <sub>2</sub> O
1241	Hydrogen	H <sub>2</sub>	1333-74-0	2.016	col gas; flam	-259.198 tp	-252.762	0.082 g/L		sl H <sub>2</sub> O
1242	Hydrogen- <i>d</i> <sub>2</sub>	D <sub>2</sub>	7782-39-0	4.028	col gas	-254.42	-249.48	0.164 g/L		
1243	Hydrogen- <i>t</i> <sub>2</sub>	T <sub>2</sub>	10028-17-8	6.032	col gas	-252.53	-248.11	0.246 g/L		
1244	Hydrogen- <i>d</i> <sub>1</sub>	HD	13983-20-5	3.022	col gas	-256.55	-251.02	0.123 g/L		
1245	Hydrogen- <i>t</i> <sub>1</sub>	HT	14885-60-0	4.024	col gas	-254.7	-249.6			
1246	Hydrogen- <i>d</i> <sub>1</sub> , <i>t</i> <sub>1</sub>	DT	14885-61-1	5.030	col gas	-253.5	-238.9			
1247	Hydrogen bromide	HBr	10035-10-6	80.912	col gas	-86.80	-66.38	3.307 g/L		vs H <sub>2</sub> O; s EtOH
1248	Hydrogen bromide- <i>d</i>	DBr	13536-59-9	81.918	col gas	-87.54	-66.9			s H <sub>2</sub> O



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1249	Hydrogen chloride	HCl	7647-01-0	36.461	col gas	-114.17	-85	1.490 g/L		vs H <sub>2</sub> O
1250	Hydrogen chloride dihydrate	HCl · 2H <sub>2</sub> O	13465-05-9	72.492	col liq	-17.7		1.46		
1251	Hydrogen chloride- <i>d</i>	DCl	7698-05-7	37.467	col gas	-114.72	-84.4			s H <sub>2</sub> O
1252	Hydrogen cyanide	HCN	74-90-8	27.026	col liq or gas	-13.29	26	0.6876 <sup>20</sup>		vs H <sub>2</sub> O, EtOH; sl eth
1253	Hydrogen fluoride	HF	7664-39-3	20.006	col gas	-83.36	20	0.818 g/L		vs H <sub>2</sub> O, EtOH; sl eth
1254	Hydrogen iodide	HI	10034-85-2	127.912	col or yel gas	-50.76	-35.55	5.228 g/L		vs H <sub>2</sub> O; s os
1255	Hydrogen iodide- <i>d</i>	DI	14104-45-1	128.918	col gas	-51.93	-36.2			s H <sub>2</sub> O
1256	Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	7722-84-1	34.015	col liq	-0.43	150.2	1.44		vs H <sub>2</sub> O
1257	Hydrogen selenide	H <sub>2</sub> Se	7783-07-5	80.98	col gas; flam	-65.73	-41.25	3.310 g/L		s H <sub>2</sub> O
1258	Hydrogen sulfide	H <sub>2</sub> S	7783-06-4	34.081	col gas; flam	-85.5	-59.55	1.393 g/L		s H <sub>2</sub> O
1259	Hydrogen disulfide	H <sub>2</sub> S <sub>2</sub>	13465-07-1	66.146	col liq		70.7	1.334		
1260	Hydrogen telluride	H <sub>2</sub> Te	7783-09-7	129.62	col gas	-49	-2	5.298 g/L		s H <sub>2</sub> O, EtOH, alk
1261	Indium	In	7440-74-6	114.818	soft wh metal	156.60	2072	7.31		s acid
1262	Indium antimonide	InSb	1312-41-0	236.578	blk cub cry	524		5.7747		
1263	Indium arsenide	InAs	1303-11-3	189.740	gray cub cry	942		5.67		i acid
1264	Indium nitride	InN	25617-98-5	128.825	brn hex cry	1100		6.88		
1265	Indium phosphide	InP	22398-80-7	145.792	blk cub cry	1062		4.81		sl acid
1266	Indium(I) bromide	InBr	14280-53-6	194.722	oran-red orth cry	285	656	4.96		reac H <sub>2</sub> O
1267	Indium(I) chloride	InCl	13465-10-6	150.271	yel cub cry	225	608	4.19		reac H <sub>2</sub> O
1268	Indium(I) iodide	InI	13966-94-4	241.722	orth cry	364.4	712	5.32		
1269	Indium(II) bromide	InBr <sub>2</sub>	21264-43-7	274.626	orth cry			4.22		reac H <sub>2</sub> O
1270	Indium(II) chloride	InCl <sub>2</sub>	13465-11-7	185.724	col orth cry	235		3.64		reac H <sub>2</sub> O
1271	Indium(II) sulfide	InS	12030-14-7	146.883	red-brn orth cry	692		5.2		
1272	Indium(III) bromide	InBr <sub>3</sub>	13465-09-3	354.530	hyg yel-wh monocl cry	420		4.74	414 <sup>20</sup>	
1273	Indium(III) chloride	InCl <sub>3</sub>	10025-82-8	221.177	yel monocl cry; hyg	583		4.0	195.1 <sup>22</sup>	s EtOH
1274	Indium(III) chloride tetrahydrate	InCl <sub>3</sub> · 4H <sub>2</sub> O	22519-64-8	293.239	wh cry					s H <sub>2</sub> O
1275	Indium(III) fluoride	InF <sub>3</sub>	7783-52-0	171.813	wh hex cry; hyg	1172	>1200	4.39		sl H <sub>2</sub> O; s dil acid
1276	Indium(III) fluoride trihydrate	InF <sub>3</sub> · 3H <sub>2</sub> O	14166-78-0	225.859	wh cry	100 dec				s H <sub>2</sub> O
1277	Indium(III) hydroxide	In(OH) <sub>3</sub>	20661-21-6	165.840	cub cry			4.4		
1278	Indium(III) iodide	InI <sub>3</sub>	13510-35-5	495.531	yel-red monocl cry; hyg	207		4.69	1308 <sup>22</sup>	
1279	Indium(III) nitrate trihydrate	In(NO <sub>3</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	13770-61-1	354.879	col cry	dec 100				
1280	Indium(III) oxide	In <sub>2</sub> O <sub>3</sub>	1312-43-2	277.634	yel cub cry	1912		7.18		i H <sub>2</sub> O; s hot acid
1281	Indium(III) perchlorate octahydrate	In(ClO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13465-15-1	557.292	wh cry	≈80	200 dec			
1282	Indium(III) phosphate	InPO <sub>4</sub>	14693-82-4	209.789	wh orth cry			4.9		i H <sub>2</sub> O
1283	Indium(III) selenide	In <sub>2</sub> Se <sub>3</sub>	1312-42-1	466.52	blk hex cry	660		5.8		
1284	Indium(III) sulfate	In <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13464-82-9	517.824	hyg wh powder			3.44	117 <sup>20</sup>	
1285	Indium(III) sulfide	In <sub>2</sub> S <sub>3</sub>	12030-24-9	325.831	oran cub cry	1050		4.45		
1286	Indium(III) telluride	In <sub>2</sub> Te <sub>3</sub>	1312-45-4	612.44	blk cub cry	667		5.75		
1287	Iodine	I <sub>2</sub>	7553-56-2	253.809	blue-blk plates	113.7	184.4	4.933	0.03 <sup>20</sup>	s bz, EtOH, eth, ctc, chl
1288	Iodic acid	HIO <sub>3</sub>	7782-68-5	175.910	col orth cry	110 dec		4.63	308 <sup>25</sup>	i EtOH, eth
1289	Periodic acid dihydrate	HIO <sub>4</sub> · 2H <sub>2</sub> O	10450-60-9	227.940	monocl hyg cry	122 dec				s H <sub>2</sub> O, EtOH; sl eth
1290	Iodine tetroxide	I <sub>2</sub> O <sub>4</sub>	12399-08-5	317.807	yel cry	130	dec >85	4.2		sl H <sub>2</sub> O
1291	Iodine pentoxide	I <sub>2</sub> O <sub>5</sub>	12029-98-0	333.806	hyg wh cry	≈300 dec		4.98	253.4 <sup>20</sup>	i EtOH, eth, CS <sub>2</sub>
1292	Iodine hexoxide	I <sub>2</sub> O <sub>6</sub>	65355-99-9	349.805	yel solid	dec 150				reac H <sub>2</sub> O
1293	Iodine nonaoxide	I <sub>2</sub> O <sub>9</sub>	73560-00-6	651.613	hyg yel powder	75 dec				
1294	Iodine bromide	IBr	7789-33-5	206.808	blk orth cry	40	116 dec	4.3		s H <sub>2</sub> O, EtOH, eth
1295	Iodine chloride	ICl	7790-99-0	162.357	red cry or oily liq	27.38	94.4 dec	3.24		reac H <sub>2</sub> O; s EtOH
1296	Iodine trichloride	ICl <sub>3</sub>	865-44-1	233.263	yel tricl cry; hyg	101 tp (16 atm)	64 sp dec	3.2		reac H <sub>2</sub> O; s EtOH, bz
1297	Iodine fluoride	IF	13873-84-2	145.902	wh pow (-78°C)	-14 dec				
1298	Iodine trifluoride	IF <sub>3</sub>	22520-96-3	183.899	yel solid, stable at low temp	-28 dec				
1299	Iodine pentafluoride	IF <sub>5</sub>	7783-66-6	221.896	yel liq	9.43	100.5	3.19		reac H <sub>2</sub> O
1300	Iodine heptafluoride	IF <sub>7</sub>	16921-96-3	259.893	col gas	6.5 tp	4.8 sp	10.62 g/L		s H <sub>2</sub> O
1301	Iodosyl trifluoride	IOF <sub>3</sub>	19058-78-7	199.898	hyg col needles	dec >110				reac H <sub>2</sub> O
1302	Iodosyl pentafluoride	IOF <sub>5</sub>	16056-61-4	237.895	col liq	4.5				
1303	Iodyl trifluoride	IO <sub>2</sub> F <sub>3</sub>	25402-50-0	215.898	yel solid	41	subl			
1304	Periodyl fluoride	IO <sub>2</sub> F	30708-86-2	193.900	col cry	dec >100				
1305	Iridium	Ir	7439-88-5	192.217	silv-wh metal; cub	2446	4428	22.562 <sup>20</sup>		s aqua regia
1306	Iridium carbonyl	Ir <sub>4</sub> (CO) <sub>12</sub>	11065-24-0	1104.989	yel cry	210 dec				
1307	Iridium(III) bromide	IrBr <sub>3</sub>	10049-24-8	431.929	red-brn monocl cry			6.82		i H <sub>2</sub> O, acid, alk

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1308	Iridium(III) bromide tetrahydrate	IrBr <sub>3</sub> · 4H <sub>2</sub> O	10049-24-8*	503.991	grn-brn cry					s H <sub>2</sub> O; i EtOH
1309	Iridium(III) chloride	IrCl <sub>3</sub>	10025-83-9	298.576	brn monocl cry	763 dec		5.30		i H <sub>2</sub> O, acid, alk
1310	Iridium(III) fluoride	IrF <sub>3</sub>	23370-59-4	249.212	blk hex cry	250 dec		≈8.0		i H <sub>2</sub> O, dil acid
1311	Iridium(III) iodide	IrI <sub>3</sub>	7790-41-2	572.930	dark brn monocl cry			≈7.4		i H <sub>2</sub> O, acid, bz, chl; s alk
1312	Iridium(III) oxide	Ir <sub>2</sub> O <sub>3</sub>	1312-46-5	432.432	blue-blk cry	1000 dec				i H <sub>2</sub> O; sl hot HCl
1313	Iridium(III) 2,4-pentanedioate	Ir(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	15635-87-7	489.541	oran-yel cry	270	subl			sl H <sub>2</sub> O; s tol, chl, ace, MeOH
1314	Iridium(III) sulfide	Ir <sub>2</sub> S <sub>3</sub>	12136-42-4	480.629	orth cry			10.2		
1315	Iridium(IV) chloride	IrCl <sub>4</sub>	10025-97-5	334.029	brn hyg solid	≈700 dec				s H <sub>2</sub> O, EtOH
1316	Iridium(IV) oxide	IrO <sub>2</sub>	12030-49-8	224.216	brn tetr cry	1100 dec		11.7		
1317	Iridium(IV) sulfide	IrS <sub>2</sub>	12030-51-2	256.347	orth cry			9.3		
1318	Iridium(VI) fluoride	IrF <sub>6</sub>	7783-75-7	306.207	yel cub cry; hyg	44	53.6	4.8		reac H <sub>2</sub> O
1319	Iron	Fe	7439-89-6	55.845	silv-wh or gray met	1538	2861	7.87		s dil acid
1320	Ferrocene	Fe(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub>	102-54-5	186.031	oran needles	172.5	249			i H <sub>2</sub> O; s EtOH, eth, bz, dil HNO <sub>3</sub>
1321	Tetracarbonyldihydroiron	Fe(CO) <sub>4</sub> H <sub>2</sub>	12002-28-7	169.902	col liq, stab low temp	-70	dec -20			s alk
1322	Iron pentacarbonyl	Fe(CO) <sub>5</sub>	13463-40-6	195.896	yel oily liq; flam	-20.5	103	1.46		i H <sub>2</sub> O; s eth, bz, ace
1323	Iron nonacarbonyl	Fe <sub>9</sub> (CO) <sub>9</sub>	15321-51-4	363.781	oran-yel cry	100 dec		2.85		
1324	Iron dodecacarbonyl	Fe <sub>12</sub> (CO) <sub>12</sub>	12088-65-2	503.656	dark grn cry	140		2.00		
1325	Iron arsenide	FeAs	12044-16-5	130.767	gray orth cry	1030		7.85		
1326	Iron boride (FeB)	FeB	12006-84-7	66.656	refrac solid; orth	1658		≈7		
1327	Iron boride (Fe <sub>2</sub> B)	Fe <sub>2</sub> B	12006-86-9	122.501	refrac solid; tetr	1389		7.3		
1328	Iron carbide	Fe <sub>3</sub> C	12011-67-5	179.546	gray cub cry	1227		7.694		
1329	Iron phosphide (FeP)	FeP	26508-33-8	86.819	rhomb cry			6.07		
1330	Iron phosphide (Fe <sub>2</sub> P)	Fe <sub>2</sub> P	1310-43-6	142.664	gray hex needles	1370		6.8		i H <sub>2</sub> O, dil acid, alk
1331	Iron phosphide (Fe <sub>3</sub> P)	Fe <sub>3</sub> P	12023-53-9	198.509	gray solid	1100		6.74		i H <sub>2</sub> O
1332	Iron disulfide	FeS <sub>2</sub>	1317-66-4	119.975	blk cub cry	>600 dec		5.02		i H <sub>2</sub> O
1333	Iron silicide	FeSi	12022-95-6	83.931	gray cub cry	1410		6.1		
1334	Iron disilicide	FeSi <sub>2</sub>	12022-99-0	112.016	gray tetr cry	1220		4.74		
1335	Iron(II) acetate	Fe(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	3094-87-9	173.934	wh cry	190 dec				s H <sub>2</sub> O
1336	Iron(II) acetate tetrahydrate	Fe(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	3094-87-9*	245.994	grn cry	dec				s H <sub>2</sub> O, EtOH
1337	Iron(II) aluminate	Fe(AlO <sub>2</sub> ) <sub>2</sub>	12068-49-4	173.806	blk cub cry			4.3		
1338	Iron(II) arsenate	Fe <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	10102-50-8	445.373	grn powder					i H <sub>2</sub> O
1339	Iron(II) arsenate hexahydrate	Fe <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10102-50-8*	553.465	grn amorp powder	dec				i H <sub>2</sub> O; s acid
1340	Iron(II) bromide	FeBr <sub>2</sub>	7789-46-0	215.653	yel-brn hex cry; hyg	691	dec	4.636	120 <sup>25</sup>	vs EtOH
1341	Iron(II) bromide hexahydrate	FeBr <sub>2</sub> · 6H <sub>2</sub> O	13463-12-2	323.744	grn hyg cry	27 dec		4.64	120 <sup>25</sup>	s EtOH
1342	Iron(II) carbonate	FeCO <sub>3</sub>	563-71-3	115.854	gray-brn hex cry			3.944	0.000062 <sup>20</sup>	
1343	Iron(II) chloride	FeCl <sub>2</sub>	7758-94-3	126.751	wh hex cry; hyg	677	1023	3.16	65.0 <sup>25</sup>	vs EtOH, ace; sl bz
1344	Iron(II) chloride dihydrate	FeCl <sub>2</sub> · 2H <sub>2</sub> O	16399-77-2	162.782	wh-grn monocl cry	120 dec		2.39	65.0 <sup>25</sup>	
1345	Iron(II) chloride tetrahydrate	FeCl <sub>2</sub> · 4H <sub>2</sub> O	13478-10-9	198.813	grn monocl cry	105 dec		1.93	65.0 <sup>25</sup>	s EtOH
1346	Iron(II) chromite	FeCr <sub>2</sub> O <sub>4</sub>	1308-31-2	223.835	blk cub cry			5.0		
1347	Iron(II) fluoride	FeF <sub>2</sub>	7789-28-8	93.842	wh tetr cry	1100		4.09		sl H <sub>2</sub> O; s dil HF; i EtOH, eth
1348	Iron(II) fluoride tetrahydrate	FeF <sub>2</sub> · 4H <sub>2</sub> O	13940-89-1	165.904	col hex cry			2.20		
1349	Iron(II) hydroxide	Fe(OH) <sub>2</sub>	18624-44-7	89.860	wh-grn hex cry			3.4	0.000052 <sup>20</sup>	
1350	Iron(II) iodide	FeI <sub>2</sub>	7783-86-0	309.654	red-viol hex cry; hyg	594		5.3		s H <sub>2</sub> O, EtOH, eth
1351	Iron(II) iodide tetrahydrate	FeI <sub>2</sub> · 4H <sub>2</sub> O	7783-86-0*	381.716	blk hyg leaflets	90 dec		2.87		s H <sub>2</sub> O, EtOH
1352	Iron(II) molybdate	FeMoO <sub>4</sub>	13718-70-2	215.78	brn-yel monocl cry	1115		5.6		i H <sub>2</sub> O
1353	Iron(II) nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub>	14013-86-6	179.854	grn solid				87.5 <sup>25</sup>	
1354	Iron(II) nitrate hexahydrate	Fe(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	14013-86-6*	287.946	grn solid	60 dec			87.5 <sup>25</sup>	
1355	Iron(II) orthosilicate	Fe <sub>2</sub> SiO <sub>4</sub>	10179-73-4	203.774	brn orth cry			4.30		
1356	Iron(II) oxalate dihydrate	FeC <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	6047-25-2	179.894	yel cry	150 dec		2.28	0.078 <sup>25</sup>	s acid
1357	Iron(II) oxide	FeO	1345-25-1	71.844	blk cub cry	1377		6.0		i H <sub>2</sub> O, alk; s acid
1358	Iron(II) 2,4-pentanedioate	Fe(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	14024-17-0	254.061	oran-brn cry	170	subl			sl bz, tol
1359	Iron(II) perchlorate	Fe(ClO <sub>4</sub> ) <sub>2</sub>	13933-23-8	254.746	grn-wh hyg needles	>100 dec			210 <sup>25</sup>	
1360	Iron(II) phosphate octahydrate	Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	14940-41-1	501.600	gray-blue monocl cry; hyg			2.58		i H <sub>2</sub> O; s acid
1361	Iron(II) selenide	FeSe	1310-32-3	134.81	blk hex cry			6.7		i H <sub>2</sub> O
1362	Iron(II) sulfate	FeSO <sub>4</sub>	7720-78-7	151.908	wh orth cry; hyg			3.65	29.5 <sup>25</sup>	
1363	Iron(II) sulfate monohydrate	FeSO <sub>4</sub> · H <sub>2</sub> O	17375-41-6	169.923	wh-yel monocl cry	300 dec		3.0	29.5 <sup>25</sup>	

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1364	Iron(II) sulfate heptahydrate	FeSO <sub>4</sub> · 7H <sub>2</sub> O	7782-63-0	278.014	blue-grn monocry	≈60 dec		1.895	29.5 <sup>25</sup>	i EtOH
1365	Iron(II) sulfide	FeS	1317-37-9	87.910	col hex or tetr cry; hyg	1188	dec	4.7		i H <sub>2</sub> O; reac acid
1366	Iron(II) tantalate	Fe(TaO <sub>3</sub> ) <sub>2</sub>	12140-41-9	513.737	brn tetr cry			7.33		
1367	Iron(II) tartrate	FeC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>		203.916	wh cry				0.88	vs acid; s NH <sub>4</sub> OH
1368	Iron(II) telluride	FeTe	12125-63-2	183.45	tetr cry	914		6.8		
1369	Iron(II) thiocyanate trihydrate	Fe(SCN) <sub>2</sub> · 3H <sub>2</sub> O	6010-09-9	226.055	grn monocry					s H <sub>2</sub> O, EtOH, eth
1370	Iron(II) titanate	FeTiO <sub>3</sub>	12168-52-4	151.710	blk rhomb cry	≈1470		4.72		
1371	Iron(II) tungstate	FeWO <sub>4</sub>	13870-24-1	303.68	monocry			7.51		
1372	Iron(II,III) oxide	Fe <sub>3</sub> O <sub>4</sub>	1317-61-9	231.533	blk cub cry or amorp powder	1597		5.17		i H <sub>2</sub> O; s acid
1373	Iron(III) acetate, basic	FeOH(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	10450-55-2	190.941	brn-red amorp powder					i H <sub>2</sub> O; s EtOH, acid
1374	Iron(III) ammonium citrate	Fe(NH <sub>4</sub> ) <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub>	1185-57-5	488.160	red or brn pow; hyg					s H <sub>2</sub> O; i EtOH
1375	Iron(III) arsenate dihydrate	FeAsO <sub>4</sub> · 2H <sub>2</sub> O	10102-49-5	230.795	grn-brn powder	dec		3.18		i H <sub>2</sub> O; s dil acid
1376	Iron(III) bromide	FeBr <sub>3</sub>	10031-26-2	295.557	dark red hex cry; hyg	dec		4.5	455 <sup>25</sup>	s EtOH, eth
1377	Iron(III) chloride	FeCl <sub>3</sub>	7705-08-0	162.204	grn hex cry; hyg	307.6	≈316	2.90	91.2 <sup>25</sup>	s EtOH, eth, ace
1378	Iron(III) chloride hexahydrate	FeCl <sub>3</sub> · 6H <sub>2</sub> O	10025-77-1	270.295	yel-oran monocry; hyg	37 dec		1.82	91.2 <sup>25</sup>	s EtOH, eth, ace
1379	Iron(III) chromate	Fe <sub>2</sub> (CrO <sub>4</sub> ) <sub>3</sub>	10294-52-7	459.671	yel powder					i H <sub>2</sub> O, EtOH; s acid
1380	Iron(III) citrate pentahydrate	FeC <sub>6</sub> H <sub>5</sub> O <sub>7</sub> · 5H <sub>2</sub> O	3522-50-7	335.021	red-brn cry					s H <sub>2</sub> O; i EtOH
1381	Iron(III) dichromate	Fe <sub>2</sub> (Cr <sub>2</sub> O <sub>7</sub> ) <sub>3</sub>	10294-53-8	759.654	red-brn solid					s H <sub>2</sub> O, acid
1382	Iron(III) ferrocyanide	Fe <sub>4</sub> [Fe(CN) <sub>6</sub> ] <sub>3</sub>	14038-43-8	859.229	dark blue powder			1.80		i H <sub>2</sub> O, dil acid, os
1383	Iron(III) fluoride	FeF <sub>3</sub>	7783-50-8	112.840	grn hex cry	>1000		3.87	5.92 <sup>25</sup>	i EtOH, eth, bz
1384	Iron(III) fluoride trihydrate	FeF <sub>3</sub> · 3H <sub>2</sub> O	15469-38-2	166.886	yel-brn tetr cry			2.3	5.92 <sup>25</sup>	
1385	Iron(III) formate	Fe(CHO) <sub>2</sub>	555-76-0	190.897	red-yel cry powder					s H <sub>2</sub> O; sl EtOH
1386	Iron(III) hydroxide	Fe(OH) <sub>3</sub>	1309-33-7	106.867	yel monocry			3.12		
1387	Iron(III) hydroxide oxide	FeO(OH)	20344-49-4	88.852	red-brn orth cry			4.26		i H <sub>2</sub> O; s acid
1388	Iron(III) metavanadate	Fe(VO <sub>3</sub> ) <sub>3</sub>	65842-03-7	352.665	gray-brn powder					i H <sub>2</sub> O, EtOH; s acid
1389	Iron(III) nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub>	10421-48-4	241.860	cry				82.5 <sup>20</sup>	
1390	Iron(III) nitrate hexahydrate	Fe(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	13476-08-9	349.951	viol cub cry	35 dec			82.5 <sup>20</sup>	
1391	Iron(III) nitrate nonahydrate	Fe(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	7782-61-8	403.997	viol-gray hyg cry	47 dec		1.68	82.5 <sup>20</sup>	vs EtOH, ace
1392	Iron(III) oxalate	Fe <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub>	19469-07-9	375.747	yel amorp powder	100 dec				s H <sub>2</sub> O, acid; i alk
1393	Iron(III) oxide	Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	159.688	red-brn hex cry	1539		5.25		i H <sub>2</sub> O; s acid
1394	Iron(III) 2,4-pentanedioate	Fe(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	14024-18-1	353.169	red-oran cry	179		5.24		sl H <sub>2</sub> O; s os
1395	Iron(III) perchlorate hexahydrate	Fe(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	32963-81-8	462.288	viol cry					
1396	Iron(III) phosphate dihydrate	FePO <sub>4</sub> · 2H <sub>2</sub> O	10045-86-0	186.847	gray-wh orth cry			2.87		i H <sub>2</sub> O; s HCl
1397	Iron(III) pyrophosphate nonahydrate	Fe <sub>2</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	10058-44-3	907.348	yel powder					i H <sub>2</sub> O; s acid
1398	Iron(III) hypophosphite	Fe(H <sub>2</sub> PO <sub>2</sub> ) <sub>3</sub>	7783-84-8	250.811	wh-gray powder					i H <sub>2</sub> O
1399	Iron(III) sodium pyrophosphate	FeNaP <sub>2</sub> O <sub>7</sub>	10045-87-1	252.778	wh powder			1.5		i H <sub>2</sub> O; s HCl
1400	Iron(III) sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10028-22-5	399.878	gray-wh rhomb cry; hyg			3.10	440 <sup>20</sup>	sl EtOH; i ace
1401	Iron(III) sulfate nonahydrate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	13520-56-4	562.015	yel hex cry	400 dec		2.1	440 <sup>20</sup>	
1402	Iron(III) thiocyanate	Fe(SCN) <sub>3</sub>	4119-52-2	230.092	red-viol hyg cry	dec				s H <sub>2</sub> O, EtOH, ace; i tol, chl
1403	Krypton	Kr	7439-90-9	83.798	col gas	-157.38 tp (73.2 kPa)	-153.34	3.425 g/L		sl H <sub>2</sub> O
1404	Krypton difluoride	KrF <sub>2</sub>	13773-81-4	121.795	col tetr cry	≈25 dec		3.24		reac H <sub>2</sub> O
1405	Krypton fluoride hexafluoroantimonate	KrFSb <sub>2</sub> F <sub>11</sub>	39578-36-4	555.299	wh solid	dec 45				
1406	Lanthanum	La	7439-91-0	138.905	silv metal; hex	920	3464	6.15		s dil acid
1407	Lanthanum aluminum oxide	LaAlO <sub>3</sub>	12003-65-5	213.885	wh rhom cry	trans cub 500				
1408	Lanthanum boride	LaB <sub>6</sub>	12008-21-8	203.771	blk cub cry; refrac	2715		4.76		
1409	Lanthanum bromate nonahydrate	LaBrO <sub>3</sub> · 9H <sub>2</sub> O		684.749	hex cry	dec 100		5.06		vs H <sub>2</sub> O
1410	Lanthanum bromide	LaBr <sub>3</sub>	13536-79-3	378.617	wh hex cry; hyg	788		5.1		s H <sub>2</sub> O
1411	Lanthanum carbide	LaC <sub>2</sub>	12071-15-7	162.926	tetr cry	2360		5.29		
1412	Lanthanum carbonate octahydrate	La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	6487-39-4	601.960	wh cry powder			2.6		i H <sub>2</sub> O; s dil acid
1413	Lanthanum chloride	LaCl <sub>3</sub>	10099-58-8	245.264	wh hex cry; hyg	858		3.84	95.7 <sup>25</sup>	
1414	Lanthanum chloride heptahydrate	LaCl <sub>3</sub> · 7H <sub>2</sub> O	20211-76-1	371.371	wh tricr cry; hyg	91 dec			95.7 <sup>25</sup>	s EtOH
1415	Lanthanum fluoride	LaF <sub>3</sub>	13709-38-1	195.900	wh hex cry; hyg	1493		5.9		i H <sub>2</sub> O, acid
1416	Lanthanum hydride	LaH <sub>3</sub>	13864-01-2	141.929	blk cub cry			5.36		
1417	Lanthanum hydroxide	La(OH) <sub>3</sub>	14507-19-8	189.927	wh amorp solid	dec			0.000020 <sup>20</sup>	
1418	Lanthanum iodate	La(IO <sub>3</sub> ) <sub>3</sub>	13870-19-4	663.614	col cry				1.7	
1419	Lanthanum iodide	LaI <sub>3</sub>	13813-22-4	519.619	wh orth cry; hyg	778		5.6		s H <sub>2</sub> O
1420	Lanthanum nitrate hexahydrate	La(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	10277-43-7	433.011	wh hyg tricr cry	≈40 dec			200 <sup>25</sup>	vs EtOH; s ace

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1421	Lanthanum nitride	LaN	25764-10-7	152.912	cub cry			6.73		
1422	Lanthanum oxide	La <sub>2</sub> O <sub>3</sub>	1312-81-8	325.809	wh amorp powder	2304	3620	6.51		i H <sub>2</sub> O; s dil acid
1423	Lanthanum perchlorate hexahydrate	La(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	36907-37-6	475.021	hyg col cry	dec 100				vs H <sub>2</sub> O; s EtOH
1424	Lanthanum silicide	LaSi <sub>2</sub>	12056-90-5	195.076	gray tetr cry	1520		5.0		
1425	Lanthanum sulfate	La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10099-60-2	565.999	hyg wh pow	1150				sl H <sub>2</sub> O
1426	Lanthanum sulfate octahydrate	La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	57804-25-8	702.058	col cry	dec		2.82		sl H <sub>2</sub> O
1427	Lanthanum sulfate nonahydrate	La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	10294-62-9	728.136	hex cry			2.82	2.7 <sup>20</sup>	i EtOH
1428	Lanthanum monosulfide	LaS	12031-30-0	170.970	yel cub cry	2300		5.61		
1429	Lanthanum sulfide	La <sub>2</sub> S <sub>3</sub>	12031-49-1	374.006	red cub cry	2110		4.9		
1430	Lawrencium	Lr	22537-19-5	262	metal	1627				
1431	Lead	Pb	7439-92-1	207.2	soft silv-gray metal; cub	327.462	1749	11.3		s conc acid
1432	Plumbane	PbH <sub>4</sub>	15875-18-0	211.2	unstab col gas		-13			
1433	Lead(II) acetate	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	301-04-2	325.3	wh cry	280	dec	3.25	44.3 <sup>20</sup>	
1434	Lead(II) acetate trihydrate	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	6080-56-4	427.3	col cry	75 dec		2.55		vs H <sub>2</sub> O; sl EtOH
1435	Lead(II) acetate, basic	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 2Pb(OH) <sub>2</sub>	1335-32-6	807.7	wh powder	dec			6.3 <sup>0</sup>	
1436	Lead(II) antimonate	Pb <sub>3</sub> (SbO <sub>4</sub> ) <sub>2</sub>	13510-89-9	993.1	oran-yel powder			6.58		i H <sub>2</sub> O, dil acid
1437	Lead(II) arsenate	Pb <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>	3687-31-8	899.4	wh cry	1042 dec		5.8		i H <sub>2</sub> O; s HNO <sub>3</sub>
1438	Lead(II) arsenite	Pb(AsO <sub>2</sub> ) <sub>2</sub>	10031-13-7	421.0	wh powder			5.85		i H <sub>2</sub> O; s dil HNO <sub>3</sub>
1439	Lead(II) azide	Pb(N <sub>3</sub> ) <sub>2</sub>	13424-46-9	291.2	col orth needles; exp	exp ≈350		4.7	0.023 <sup>18</sup>	vs HOAc
1440	Lead(II) borate monohydrate	Pb(BO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	10214-39-8	310.8	wh powder	500 dec		5.6		i H <sub>2</sub> O; s dil HNO <sub>3</sub>
1441	Lead(II) bromate monohydrate	Pb(BrO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	10031-21-7	481.0	col cry	≈180 dec		5.53	1.33 <sup>20</sup>	
1442	Lead(II) bromide	PbBr <sub>2</sub>	10031-22-8	367.0	wh orth cry	371	892	6.69	0.975 <sup>25</sup>	i EtOH
1443	Lead(II) butanoate	Pb(C <sub>4</sub> H <sub>7</sub> O <sub>2</sub> ) <sub>2</sub>	819-73-8	381.4	col solid	≈90				i H <sub>2</sub> O; s dil HNO <sub>3</sub>
1444	Lead(II) carbonate	PbCO <sub>3</sub>	598-63-0	267.2	col orth cry	≈315 dec		6.582		i H <sub>2</sub> O
1445	Lead(II) carbonate, basic	Pb(OH) <sub>2</sub> · 2PbCO <sub>3</sub>	1319-46-6	775.6	wh hex cry	400 dec		≈6.5		i H <sub>2</sub> O, EtOH; s acid
1446	Lead(II) chlorate	Pb(ClO <sub>3</sub> ) <sub>2</sub>	10294-47-0	374.1	col hyg cry	230 dec		3.9	144 <sup>18</sup>	vs EtOH
1447	Lead(II) chloride	PbCl <sub>2</sub>	7758-95-4	278.1	wh orth needles or powder	501	951	5.98	1.08 <sup>25</sup>	s alk
1448	Lead(II) chloride fluoride	PbClF	13847-57-9	261.7	tetr cry			7.05	0.035 <sup>20</sup>	
1449	Lead(II) chlorite	Pb(ClO <sub>2</sub> ) <sub>2</sub>	13453-57-1	342.1	yel monocl cry	dec 126			0.2 <sup>25</sup>	sl H <sub>2</sub> O; s alk
1450	Lead(II) chromate	PbCrO <sub>4</sub>	7758-97-6	323.2	yel-oran monocl cry	844		6.12	0.000017 <sup>20</sup>	s alk, dil acid
1451	Lead(II) chromate(VI) oxide	PbCrO <sub>4</sub> · PbO	18454-12-1	546.4	red powder					i H <sub>2</sub> O
1452	Lead(II) citrate trihydrate	Pb <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	512-26-5	1053.8	wh cry powder					s H <sub>2</sub> O; sl EtOH
1453	Lead(II) cyanide	Pb(CN) <sub>2</sub>	592-05-2	259.2	wh-yel powder					sl H <sub>2</sub> O; reac acid
1454	Lead(II) 2-ethylhexanoate	Pb(C <sub>8</sub> H <sub>15</sub> CO <sub>2</sub> ) <sub>2</sub>	301-08-6	493.6	visc liq			1.56		
1455	Lead(II) fluoride	PbF <sub>2</sub>	7783-46-2	245.2	wh orth cry	830	1293	8.44	0.0670 <sup>25</sup>	
1456	Lead(II) fluoroborate	Pb(BF <sub>4</sub> ) <sub>2</sub>	13814-96-5	380.8	stab only in aq soln					s H <sub>2</sub> O
1457	Lead(II) formate	Pb(CHO <sub>2</sub> ) <sub>2</sub>	811-54-1	297.2	wh prisms or needles	190 dec		4.63	1.6 <sup>16</sup>	i EtOH
1458	Lead(II) hexafluoro-2,4-pentanedioate	Pb(CF <sub>3</sub> COCHCOCF <sub>3</sub> ) <sub>2</sub>	19648-88-5	621.3	cry	155	210			
1459	Lead(II) hydrogen arsenate	PbHAsO <sub>4</sub>	7784-40-9	347.1	wh monocl cry	280 dec		5.943		i H <sub>2</sub> O; s HNO <sub>3</sub> , alk
1460	Lead(II) hydrogen phosphate	PbHPO <sub>4</sub>	15845-52-0	303.2	wh monocl cry	dec		5.66		
1461	Lead(II) hydroxide	Pb(OH) <sub>2</sub>	19783-14-3	241.2	wh powder	145 dec		7.59	0.00012 <sup>20</sup>	s acid
1462	Lead(II) iodate	Pb(IO <sub>3</sub> ) <sub>2</sub>	25659-31-8	557.0	wh orth cry			6.50	0.0025 <sup>25</sup>	
1463	Lead(II) iodide	PbI <sub>2</sub>	10101-63-0	461.0	yel hex cry or powder	410	872 dec	6.16	0.076 <sup>25</sup>	i EtOH
1464	Lead(II) lactate	Pb(C <sub>3</sub> H <sub>5</sub> O <sub>3</sub> ) <sub>2</sub>	18917-82-3	385.3	wh cry powder					s H <sub>2</sub> O, hot EtOH
1465	Lead(II) molybdate	PbMoO <sub>4</sub>	10190-55-3	367.1	yel tetr cry	≈1060		6.7		i H <sub>2</sub> O; s HNO <sub>3</sub> , NaOH
1466	Lead(II) niobate	Pb(NbO <sub>5</sub> ) <sub>2</sub>	12034-88-7	489.0	rhomb or tetr cry	1343		6.6		i H <sub>2</sub> O
1467	Lead(II) nitrate	Pb(NO <sub>3</sub> ) <sub>2</sub>	10099-74-8	331.2	col cub cry	470		4.53	59.7 <sup>25</sup>	sl EtOH
1468	Lead(II) oleate	Pb(C <sub>18</sub> H <sub>33</sub> O <sub>2</sub> ) <sub>2</sub>	1120-46-3	770.1	wax-like solid					i H <sub>2</sub> O; s EtOH, bz, eth
1469	Lead(II) oxalate	PbC <sub>2</sub> O <sub>4</sub>	814-93-7	295.2	wh powder	300 dec		5.28	0.00025 <sup>20</sup>	s dil HNO <sub>3</sub>
1470	Lead(II) oxide (litharge)	PbO	1317-36-8	223.2	red tetr cry	trans to massicot 489		9.35		i H <sub>2</sub> O, EtOH; s dil HNO <sub>3</sub>
1471	Lead(II) oxide (massicot)	PbO	1317-36-8	223.2	yel orth cry	887		9.64		i H <sub>2</sub> O, EtOH; s dil HNO <sub>3</sub>
1472	Lead(II) oxide hydrate	3PbO · H <sub>2</sub> O	1311-11-1	687.6	wh powder			7.41		i H <sub>2</sub> O; s dil acid
1473	Lead(II) 2,4-pentanedioate	Pb(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	15282-88-9	405.4	cry	143				
1474	Lead(II) perchlorate	Pb(ClO <sub>4</sub> ) <sub>2</sub>	13453-62-8	406.1	wh cry				441 <sup>25</sup>	
1475	Lead(II) perchlorate trihydrate	Pb(ClO <sub>4</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	13637-76-8	460.1	wh cry	100 dec		2.6	441 <sup>25</sup>	s EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1476	Lead(II) phosphate	Pb <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7446-27-7	811.5	wh hex cry	1014		7.01		i H <sub>2</sub> O, EtOH
1477	Lead(II) hypophosphite	Pb(H <sub>2</sub> PO <sub>2</sub> ) <sub>2</sub>	10294-58-3	337.2	hyg cry powder	dec				sl H <sub>2</sub> O; i EtOH
1478	Lead(II) metasilicate	PbSiO <sub>3</sub>	10099-76-0	283.3	wh monocry powder	764		6.49		i H <sub>2</sub> O, os
1479	Lead(II) orthosilicate	Pb <sub>2</sub> SiO <sub>4</sub>	13566-17-1	506.5	monocry	743		7.60		
1480	Lead(II) hexafluorosilicate dihydrate	PbSiF <sub>6</sub> · 2H <sub>2</sub> O	1310-03-8	385.3	col cry	dec				vs H <sub>2</sub> O
1481	Lead(II) selenate	PbSeO <sub>4</sub>	7446-15-3	350.2	orth cry			6.37	0.013 <sup>25</sup>	s conc acid
1482	Lead(II) selenide	PbSe	12069-00-0	286.2	gray cub cry	1078		8.1		i H <sub>2</sub> O; s HNO <sub>3</sub>
1483	Lead(II) selenite	PbSeO <sub>3</sub>	7488-51-9	334.2	wh monocry	≈500		7.0		i H <sub>2</sub> O
1484	Lead(II) sodium thiosulfate	Na <sub>2</sub> Pb(S <sub>2</sub> O <sub>3</sub> ) <sub>2</sub>	10101-94-7	635.5	wh cry					sl H <sub>2</sub> O
1485	Lead(II) stearate	Pb(C <sub>18</sub> H <sub>35</sub> O <sub>2</sub> ) <sub>2</sub>	1072-35-1	774.1	wh powder	≈100		1.4		i H <sub>2</sub> O; s hot EtOH
1486	Lead(II) sulfate	PbSO <sub>4</sub>	7446-14-2	303.3	orth cry	1087		6.29	0.0044 <sup>25</sup>	i acid; sl alk
1487	Lead(II) sulfide	PbS	1314-87-0	239.3	blk powder or silv cub cry	1113		7.60		i H <sub>2</sub> O; s acid
1488	Lead(II) sulfite	PbSO <sub>3</sub>	7446-10-8	287.3	wh powder	dec				i H <sub>2</sub> O; s HNO <sub>3</sub>
1489	Lead(II) tantalate	Pb(TaO <sub>3</sub> ) <sub>2</sub>	12065-68-8	665.1	orth cry			7.9		i H <sub>2</sub> O
1490	Lead(II) telluride	PbTe	1314-91-6	334.8	gray cub cry	924		8.164		i H <sub>2</sub> O, acid
1491	Lead(II) thiocyanate	Pb(SCN) <sub>2</sub>	592-87-0	323.4	wh-yel powder			3.82	0.05 <sup>20</sup>	
1492	Lead(II) thiosulfate	PbS <sub>2</sub> O <sub>3</sub>	13478-50-7	319.3	wh cry	dec		5.18		i H <sub>2</sub> O; s acid
1493	Lead(II) titanate	PbTiO <sub>3</sub>	12060-00-3	303.1	yel tetr cry			7.9		i H <sub>2</sub> O; reac HCl
1494	Lead(II) tungstate (stolzite)	PbWO <sub>4</sub>	7759-01-5	455.0	yel tetr cry	1130		8.24	0.03 <sup>20</sup>	s alk
1495	Lead(II) tungstate (raspite)	PbWO <sub>4</sub>	7759-01-5	455.0	monocry	trans 400		8.46	0.03 <sup>20</sup>	s alk
1496	Lead(II) metavanadate	Pb(VO <sub>3</sub> ) <sub>2</sub>	10099-79-3	405.1	yel powder					i H <sub>2</sub> O; reac HNO <sub>3</sub>
1497	Lead(II) zirconate	PbZrO <sub>3</sub>	12060-01-4	346.4	col orth cry			≈8		i H <sub>2</sub> O, alk; s acid
1498	Lead(II,IV) oxide	Pb <sub>2</sub> O <sub>3</sub>	1314-27-8	462.4	blk monocry or red amorp powder	530 dec		10.05		i H <sub>2</sub> O; s alk; reac conc HCl
1499	Lead(II,IV) oxide	Pb <sub>3</sub> O <sub>4</sub>	1314-41-6	685.6	red tetr cry	830		8.92		i H <sub>2</sub> O, EtOH; s hot HCl
1500	Lead(IV) acetate	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>4</sub>	546-67-8	443.4	col monocry	≈175		2.23		reac H <sub>2</sub> O, EtOH; s bz, chl
1501	Lead(IV) bromide	PbBr <sub>4</sub>	13701-91-2	526.8	unstab liq					
1502	Lead(IV) chloride	PbCl <sub>4</sub>	13463-30-4	349.0	yel oily liq	-15	≈50 dec			
1503	Lead(IV) fluoride	PbF <sub>4</sub>	7783-59-7	283.2	wh tetr cry; hyg	≈600		6.7		
1504	Lead(IV) oxide	PbO <sub>2</sub>	1309-60-0	239.2	red tetr cry or brn powder	290 dec		9.64		
1505	Lithium	Li	7439-93-2	6.941	soft silv-wh metal	180.50	1342	0.534		reac H <sub>2</sub> O
1506	Lithium acetate	LiC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	546-89-4	65.985	cry	286			45.0 <sup>25</sup>	vs EtOH
1507	Lithium acetate dihydrate	LiC <sub>2</sub> H <sub>3</sub> O <sub>2</sub> · 2H <sub>2</sub> O	6108-17-4	102.016	wh rhomb cry	58 dec		1.3	45.0 <sup>25</sup>	s EtOH
1508	Lithium aluminum hydride	LiAlH <sub>4</sub>	16853-85-3	37.955	gray-wh monocry	>125 dec		0.917		reac H <sub>2</sub> O, EtOH; s eth, thf
1509	Lithium aluminum silicate	LiAlSi <sub>2</sub> O <sub>6</sub>	12068-40-5	186.090	wh monocry	1430		3.188		
1510	Lithium amide	LiNH <sub>2</sub>	7782-89-0	22.964	tetr cry	380		1.18		reac H <sub>2</sub> O
1511	Lithium arsenate	Li <sub>3</sub> AsO <sub>4</sub>	13478-14-3	159.743	col orth cry			3.07		sl H <sub>2</sub> O; s HOAc
1512	Lithium azide	LiN <sub>3</sub>	19597-69-4	48.961	hyg monocry; exp			1.83		vs H <sub>2</sub> O
1513	Lithium borohydride	LiBH <sub>4</sub>	16949-15-8	21.784	wh-gray orth cry or powder	268	380 dec	0.66		s alk, eth, thf
1514	Lithium bromate	LiBrO <sub>3</sub>	13550-28-2	134.843	hyg col orth cry	260			65.4 <sup>25</sup>	vs H <sub>2</sub> O
1515	Lithium bromide	LiBr	7550-35-8	86.845	wh cub cry; hyg	550	≈1300	3.464	181 <sup>25</sup>	s EtOH, eth
1516	Lithium bromide monohydrate	LiBr · H <sub>2</sub> O	23303-71-1	104.860	wh orth cry	trans cub 33		3.46	145 <sup>1</sup>	vs H <sub>2</sub> O
1517	Lithium carbide	Li <sub>2</sub> C <sub>2</sub>	1070-75-3	37.903	wh hyg cry			1.65		reac H <sub>2</sub> O; i os
1518	Lithium carbonate	Li <sub>2</sub> CO <sub>3</sub>	554-13-2	73.891	wh monocry	732	1300 dec	2.11	1.30 <sup>25</sup>	s acid; i EtOH
1519	Lithium chlorate	LiClO <sub>3</sub>	13453-71-9	90.392	col hyg rhom needles	127.6	300 dec	1.119	459 <sup>25</sup>	vs EtOH; sl ace
1520	Lithium chloride	LiCl	7447-41-8	42.394	wh cub cry or powder; hyg	610	1383	2.07	84.5 <sup>25</sup>	s EtOH, ace, py
1521	Lithium chloride monohydrate	LiCl · H <sub>2</sub> O	16712-20-2	60.409	hyg wh tetr cry	dec 98		1.78	45.9 <sup>25</sup>	vs H <sub>2</sub> O
1522	Lithium chromate dihydrate	Li <sub>2</sub> CrO <sub>4</sub> · 2H <sub>2</sub> O	7789-01-7	165.906	yel orth cry; hyg	75 dec		2.15		vs H <sub>2</sub> O; s EtOH
1523	Lithium citrate tetrahydrate	Li <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> · 4H <sub>2</sub> O	6680-58-6	281.983	wh cry	210 (anh)			75 <sup>25</sup>	vs H <sub>2</sub> O; sl EtOH
1524	Lithium cobaltite	LiCoO <sub>2</sub>	12190-79-3	97.873	dark gray pow					i H <sub>2</sub> O
1525	Lithium cyanide	LiCN	2408-36-8	32.959	wh orth cry	160				
1526	Lithium hydride-d	LiD	13587-16-1	8.955	hyg wh cry	680		0.82		reac H <sub>2</sub> O
1527	Lithium dichromate dihydrate	Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> · 2H <sub>2</sub> O	10022-48-7	265.901	yel-red hyg cry	130 dec		2.34		vs H <sub>2</sub> O
1528	Lithium dihydrogen phosphate	LiH <sub>2</sub> PO <sub>4</sub>	13453-80-0	103.928	col hyg cry	>100		2.461	126 <sup>1</sup>	
1529	Lithium diisopropylamide	LiN(C <sub>3</sub> H <sub>7</sub> ) <sub>2</sub>	4111-54-0	107.123	hyg col cry	dec				s eth; i hc
1530	Lithium ferrosilicon	LiFeSi	64082-35-5	90.872	dark brittle cry					reac H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1531	Lithium fluoride	LiF	7789-24-4	25.939	wh cub cry or powder	848.2	1673	2.640	0.134 <sup>25</sup>	s acid
1532	Lithium formate monohydrate	Li(CHO <sub>2</sub> ) · H <sub>2</sub> O	6108-23-2	69.974	col-wh cry			1.46		s H <sub>2</sub> O
1533	Lithium hexafluoroantimonate	LiSbF <sub>6</sub>	18424-17-4	242.691	hyg pow	dec				
1534	Lithium hexafluoroarsenate	LiAsF <sub>6</sub>	29935-35-1	310.672	rhomb wh cry; hyg					
1535	Lithium hexafluorophosphate	LiPF <sub>6</sub>	21324-40-3	151.905	wh pow					
1536	Lithium hexafluorosilicate	Li <sub>2</sub> SiF <sub>6</sub>	17347-95-4	155.958	col hex cry	dec 350				sl ace
1537	Lithium hexafluorostannate	Li <sub>2</sub> SnF <sub>6</sub>	17029-16-2	246.582	wh pow					
1538	Lithium hydride	LiH	7580-67-8	7.949	gray cub cry or powder; hyg	692		0.78		reac H <sub>2</sub> O, EtOH
1539	Lithium hydrogen carbonate	LiHCO <sub>3</sub>	5006-97-3	67.958	wh pow					sl H <sub>2</sub> O
1540	Lithium hydroxide	LiOH	1310-65-2	23.948	col tetr cry	473	1626	1.45	12.5 <sup>25</sup>	sl EtOH
1541	Lithium hydroxide monohydrate	LiOH · H <sub>2</sub> O	1310-66-3	41.964	wh monocl cry or powder			1.51	12.5 <sup>25</sup>	sl EtOH
1542	Lithium hypochlorite	LiOCl	13840-33-0	58.393	wh pow					vs H <sub>2</sub> O
1543	Lithium iodate	LiIO <sub>3</sub>	13765-03-2	181.843	wh hyg hex cry	450		4.502	77.9 <sup>25</sup>	i EtOH
1544	Lithium iodide	LiI	10377-51-2	133.845	wh cub cry; hyg	469	1171	4.06	165 <sup>25</sup>	
1545	Lithium iodide trihydrate	LiI · 3H <sub>2</sub> O	7790-22-9	187.891	wh hyg cry	73		2.38	165 <sup>25</sup>	vs EtOH, ace
1546	Lithium manganate	Li <sub>2</sub> MnO <sub>3</sub>	12163-00-7	116.818	red-brn monocl cry			3.90		i H <sub>2</sub> O
1547	Lithium metaborate	LiBO <sub>2</sub>	13453-69-5	49.751	wh monocl cry; hyg	844		2.18	2.6 <sup>20</sup>	sl H <sub>2</sub> O; s EtOH
1548	Lithium metaborate dihydrate	LiBO <sub>2</sub> · 2H <sub>2</sub> O	15293-74-0	85.782	wh cry pow			1.8		s H <sub>2</sub> O
1549	Lithium metaphosphate	LiPO <sub>3</sub>	13762-75-9	85.913	wh cry or gl solid			1.8		i H <sub>2</sub> O
1550	Lithium metasilicate	Li <sub>2</sub> SiO <sub>3</sub>	10102-24-6	89.966	wh orth needles	1201		2.52		i cold H <sub>2</sub> O; reac dil acid
1551	Lithium molybdate	Li <sub>2</sub> MoO <sub>4</sub>	13568-40-6	173.82	hyg wh cry	702		2.66	44.8 <sup>25</sup>	s H <sub>2</sub> O
1552	Lithium niobate	LiNbO <sub>3</sub>	12031-63-9	147.845	wh hex cry	1240		4.30		
1553	Lithium nitrate	LiNO <sub>3</sub>	7790-69-4	68.946	col hex cry; hyg	253		2.38	102 <sup>25</sup>	s EtOH
1554	Lithium nitride	Li <sub>3</sub> N	26134-62-3	34.830	red hex cry	813		1.27		reac H <sub>2</sub> O
1555	Lithium nitrite	LiNO <sub>2</sub>	13568-33-7	52.947	wh hyg cry	222				vs H <sub>2</sub> O
1556	Lithium nitrite monohydrate	LiNO <sub>2</sub> · H <sub>2</sub> O	13568-33-7*	70.962	col needles	>100		1.615	139.5 <sup>25</sup>	vs H <sub>2</sub> O, EtOH
1557	Lithium orthosilicate	LiSiO <sub>4</sub>	13453-84-4	99.025	wh rhomb cry	1256		2.39		
1558	Lithium oxalate	Li <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	30903-87-8	101.901	col cry	dec		2.121 <sup>17</sup>		s H <sub>2</sub> O; i EtOH, eth
1559	Lithium phosphate	Li <sub>3</sub> PO <sub>4</sub>	10377-52-3	115.794	wh orth cry	1205		2.46	0.027 <sup>25</sup>	
1560	Lithium oxide	Li <sub>2</sub> O	12057-24-8	29.881	wh cub cry	1437		2.013		
1561	Lithium perchlorate	LiClO <sub>4</sub>	7791-03-9	106.392	wh orth cry or powder	236	430 dec	2.428	58.7 <sup>25</sup>	s EtOH, ace, eth
1562	Lithium perchlorate trihydrate	LiClO <sub>4</sub> · 3H <sub>2</sub> O	13453-78-6	160.438	wh hex cry	95 dec		1.84		vs H <sub>2</sub> O, EtOH, ace; i eth
1563	Lithium peroxide	Li <sub>2</sub> O <sub>2</sub>	12031-80-0	45.881	wh hex cry			2.31		s H <sub>2</sub> O; i EtOH
1564	Lithium selenate monohydrate	Li <sub>2</sub> SeO <sub>4</sub> · H <sub>2</sub> O	7790-71-8	174.86	monocl cry			2.56		vs H <sub>2</sub> O
1565	Lithium selenite monohydrate	Li <sub>2</sub> SeO <sub>3</sub> · H <sub>2</sub> O	15593-51-8	158.86	hyg cry					
1566	Lithium stearate	LiC <sub>18</sub> H <sub>35</sub> O <sub>2</sub>	4485-12-5	290.411	cry	≈220				
1567	Lithium sulfate	Li <sub>2</sub> SO <sub>4</sub>	10377-48-7	109.945	wh monocl cry; hyg	860		2.21	34.2 <sup>25</sup>	
1568	Lithium sulfate monohydrate	Li <sub>2</sub> SO <sub>4</sub> · H <sub>2</sub> O	10102-25-7	127.960	col cry	130 dec		2.06	34.2 <sup>25</sup>	sl EtOH
1569	Lithium sulfide	Li <sub>2</sub> S	12136-58-2	45.947	wh cub cry; hyg	1372		1.64		
1570	Lithium tantalate	LiTaO <sub>3</sub>	12031-66-2	235.887	wh pow	1650				
1571	Lithium tetraborate	Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	12007-60-2	169.122	wh tetr cry	917		2.9 <sup>20</sup>		sl H <sub>2</sub> O
1572	Lithium tetraborate pentahydrate	Li <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 5H <sub>2</sub> O	1303-94-2	259.198	wh cry pow	dec 200				vs H <sub>2</sub> O; i EtOH
1573	Lithium tetracyanoplatinate pentahydrate	Li <sub>2</sub> Pt(CN) <sub>4</sub> · 5H <sub>2</sub> O	14402-73-4	403.112	grn-yel cry					sl H <sub>2</sub> O
1574	Lithium tetrafluoroborate	LiBF <sub>4</sub>	14283-07-9	93.746	hyg wh pow	dec				vs H <sub>2</sub> O
1575	Lithium thiocyanate	LiSCN	556-65-0	65.024	wh hyg cry				120 <sup>25</sup>	
1576	Lithium titanate	Li <sub>2</sub> TiO <sub>3</sub>	12031-82-2	109.747	wh pow	1325				i H <sub>2</sub> O
1577	Lithium tungstate	Li <sub>2</sub> WO <sub>4</sub>	13568-45-1	261.72	wh trig pow	740		3.71		s H <sub>2</sub> O
1578	Lithium vanadate	LiVO <sub>3</sub>	15060-59-0	105.881	yel pow		subl 1400			
1579	Lithium zirconate	Li <sub>2</sub> ZrO <sub>3</sub>	12031-83-3	153.104	wh solid					
1580	Lutetium	Lu	7439-94-3	174.967	silv metal; hex	1663	3402	9.84		s dil acid
1581	Lutetium boride	LuB <sub>4</sub>	12688-52-7	218.211	tetr cry	2600		≈7.0		
1582	Lutetium bromide	LuBr <sub>3</sub>	14456-53-2	414.679	wh hyg cry	1025				vs H <sub>2</sub> O
1583	Lutetium chloride	LuCl <sub>3</sub>	10099-66-8	281.326	wh monocl cry; hyg	925		3.98		s H <sub>2</sub> O
1584	Lutetium chloride hexahydrate	LuCl <sub>3</sub> · 6H <sub>2</sub> O	15230-79-2	389.417	col cry	dec 150				s H <sub>2</sub> O, EtOH
1585	Lutetium fluoride	LuF <sub>3</sub>	13760-81-1	231.962	orth cry	1182	2200	8.3		i H <sub>2</sub> O
1586	Lutetium iodide	LuI <sub>3</sub>	13813-45-1	555.680	brn hex cry; hyg	1050		≈5.6		vs H <sub>2</sub> O
1587	Lutetium iron oxide	Lu <sub>2</sub> Fe <sub>3</sub> O <sub>12</sub>	12023-71-1	996.119	cry					
1588	Lutetium nitrate	Lu(NO <sub>3</sub> ) <sub>3</sub>	10099-67-9	360.982	hyg col solid					s H <sub>2</sub> O, EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1589	Lutetium nitride	LuN	12125-25-6	188.974	cub cry			11.6		
1590	Lutetium oxide	Lu <sub>2</sub> O <sub>3</sub>	12032-20-1	397.932	wh cub cry or powder	2427	3980	9.41		
1591	Lutetium perchlorate hexahydrate	Lu(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	14646-29-8	581.410	col cry	dec 350 (anh)				s H <sub>2</sub> O, MeOH
1592	Lutetium sulfate	Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	14986-89-1	638.122	wh pow	dec >850				vs H <sub>2</sub> O
1593	Lutetium sulfate octahydrate	Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13473-77-3	782.244	col cry				42.3 <sup>20</sup>	s H <sub>2</sub> O
1594	Lutetium sulfide	Lu <sub>2</sub> S <sub>3</sub>	12163-20-1	446.129	gray rhomb cry	1750 dec		6.26		
1595	Lutetium telluride	Lu <sub>2</sub> Te <sub>3</sub>	12163-22-3	732.73	orth cry			7.8		
1596	Magnesium	Mg	7439-95-4	24.305	silv-wh metal	650	1090	1.74		s dil acid
1597	Magnesium acetate	Mg(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	142-72-3	142.394	wh orth/monocl cry	323 dec		1.50	65.6 <sup>25</sup>	
1598	Magnesium acetate monohydrate	Mg(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	60582-92-5	160.409	orth cry			1.55		
1599	Magnesium acetate tetrahydrate	Mg(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	16674-78-5	214.454	col monocl cry; hyg	80 dec		1.45	65.6 <sup>25</sup>	vs EtOH
1600	Magnesium aluminate	Mg(AlO) <sub>2</sub>	12068-51-8	142.266	col cub cry	2105		3.55		i H <sub>2</sub> O
1601	Magnesium aluminum silicate	Mg <sub>3</sub> Al <sub>3</sub> (AlSi <sub>5</sub> O <sub>18</sub> )	1302-88-1	584.953	blue cry			2.6		
1602	Magnesium amide	Mg(NH <sub>2</sub> ) <sub>2</sub>	7803-54-5	56.350	wh powder; flam	dec		1.39		reac H <sub>2</sub> O
1603	Magnesium ammonium phosphate hexahydrate	MgNH <sub>4</sub> PO <sub>4</sub> · 6H <sub>2</sub> O	13478-16-5	245.407	wh pow	dec		1.71		i H <sub>2</sub> O, EtOH; s acid
1604	Magnesium antimonide	Mg <sub>3</sub> Sb <sub>2</sub>	12057-75-9	316.435	hex cry	1245		3.99		
1605	Magnesium arsenide	Mg <sub>3</sub> As <sub>2</sub>	12044-49-4	222.758	solid	≈1200		3.15		i H <sub>2</sub> O
1606	Magnesium diboride	MgB <sub>2</sub>	12007-25-9	45.927	hex cry	800 dec		2.57		
1607	Magnesium hexaboride	MgB <sub>6</sub>	12008-22-9	89.171	refrac solid	1100 dec				i H <sub>2</sub> O
1608	Magnesium dodecaboride	MgB <sub>12</sub>	12230-32-9	154.037	refrac solid	1300 dec				
1609	Magnesium bromate hexahydrate	Mg(BrO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	7789-36-8	388.201	col cub cry	200 dec		2.29	98 <sup>25</sup>	
1610	Magnesium bromide	MgBr <sub>2</sub>	7789-48-2	184.113	wh hex cry; hyg	711		3.72	102 <sup>25</sup>	
1611	Magnesium bromide hexahydrate	MgBr <sub>2</sub> · 6H <sub>2</sub> O	13446-53-2	292.204	col monocl cry	165 dec		2.0	102 <sup>25</sup>	s EtOH
1612	Magnesium carbonate	MgCO <sub>3</sub>	546-93-0	84.314	wh hex cry	990		3.010	0.18 <sup>20</sup>	i EtOH; s acid
1613	Magnesium carbonate dihydrate	MgCO <sub>3</sub> · 2H <sub>2</sub> O	5145-48-2	120.345	col tricr cry			2.8		i H <sub>2</sub> O, ace, NH <sub>4</sub> OH
1614	Magnesium carbonate trihydrate	MgCO <sub>3</sub> · 3H <sub>2</sub> O	14457-83-1	138.360	col monocl cry	165		1.8	0.18 <sup>16</sup>	
1615	Magnesium carbonate pentahydrate	MgCO <sub>3</sub> · 5H <sub>2</sub> O	61042-72-6	174.390	wh monocl cry	dec >400		3.04	0.38 <sup>16</sup>	
1616	Magnesium carbonate hydroxide tetrahydrate	4MgCO <sub>3</sub> · Mg(OH) <sub>2</sub> · 4H <sub>2</sub> O	39409-82-0	467.636	wh monocl cry			2.3		
1617	Magnesium carbonate hydroxide pentahydrate	4MgCO <sub>3</sub> · Mg(OH) <sub>2</sub> · 5H <sub>2</sub> O	56378-72-4	485.652	wh pow	dec 700				i H <sub>2</sub> O; s dil acid; i EtOH
1618	Magnesium carbonate dihydroxide trihydrate	MgCO <sub>3</sub> · Mg(OH) <sub>2</sub> · 3H <sub>2</sub> O	12143-96-3	196.680	wh monocl cry	dec		2.04		
1619	Magnesium chlorate hexahydrate	Mg(ClO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13446-19-0	299.299	wh hyg cry	≈35 dec		1.80	142 <sup>25</sup>	sl EtOH
1620	Magnesium chloride	MgCl <sub>2</sub>	7786-30-3	95.211	wh hex leaflets; hyg	714	1412	2.325	56.0 <sup>25</sup>	
1621	Magnesium chloride hexahydrate	MgCl <sub>2</sub> · 6H <sub>2</sub> O	7791-18-6	203.302	wh hyg cry	≈100 dec		1.56	56.0 <sup>25</sup>	s EtOH
1622	Magnesium chromate heptahydrate	MgCrO <sub>4</sub> · 7H <sub>2</sub> O	13423-61-5*	266.405	yel rhom cry			1.695	54.8 <sup>25</sup>	
1623	Magnesium chromite	MgCr <sub>2</sub> O <sub>4</sub>	12053-26-8	192.295	deep grn cry	2390		4.4		
1624	Magnesium citrate	Mg <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub>	3344-18-1	451.114	wh cry					sl H <sub>2</sub> O
1625	Magnesium citrate tetradecahydrate	Mg <sub>3</sub> (C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> ) <sub>2</sub> · 14H <sub>2</sub> O	3344-18-1*	703.328	wh cry pow					sl H <sub>2</sub> O; s acid
1626	Magnesium fluoride	MgF <sub>2</sub>	7783-40-6	62.302	wh tetr cry	1263	2227	3.148	0.013 <sup>25</sup>	
1627	Magnesium formate dihydrate	Mg(CHO <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	6150-82-9	150.370	wh cry	dec				s H <sub>2</sub> O; i EtOH
1628	Magnesium germanate	Mg <sub>2</sub> GeO <sub>4</sub>	12025-13-7	185.25	wh prec					i H <sub>2</sub> O
1629	Magnesium germanide	Mg <sub>2</sub> Ge	1310-52-7	121.25	cub cry	1117		3.09		
1630	Magnesium hydride	MgH <sub>2</sub>	7693-27-8	26.321	wh tetr cry	327		1.45		reac H <sub>2</sub> O
1631	Magnesium hydrogen phosphate trihydrate	MgHPO <sub>4</sub> · 3H <sub>2</sub> O	7757-86-0	174.331	wh powder	550 dec		2.13		sl H <sub>2</sub> O; s dil acid
1632	Magnesium hydroxide	Mg(OH) <sub>2</sub>	1309-42-8	58.320	wh hex cry	350		2.37	0.00069 <sup>20</sup>	s dil acid
1633	Magnesium iodate tetrahydrate	Mg(IO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	7790-32-1*	446.172	col monocl cry	210 dec		3.3	11.1 <sup>25</sup>	
1634	Magnesium iodide	MgI <sub>2</sub>	10377-58-9	278.114	wh hex cry; hyg	634		4.43	146 <sup>25</sup>	
1635	Magnesium iodide hexahydrate	MgI <sub>2</sub> · 6H <sub>2</sub> O	66778-21-0	386.205	wh monocl cry			2.35		
1636	Magnesium iodide octahydrate	MgI <sub>2</sub> · 8H <sub>2</sub> O	7790-31-0	422.236	wh orth cry; hyg	41 dec		2.10	146 <sup>25</sup>	s EtOH
1637	Magnesium metaborate octahydrate	Mg(BO <sub>2</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	13703-82-7*	254.047	wh pow	988 (anh)				sl H <sub>2</sub> O
1638	Magnesium metasilicate	MgSiO <sub>3</sub>	13776-74-4	100.389	wh monocl cry	≈1550 dec		3.19		i H <sub>2</sub> O; sl HF
1639	Magnesium metatitanate	MgTiO <sub>3</sub>	12032-30-3	120.170	col hex cry	1565		3.85		
1640	Magnesium molybdate	MgMoO <sub>4</sub>	12013-21-7	184.24	wh pow	≈1060		2.2	15.9 <sup>25</sup>	s H <sub>2</sub> O
1641	Magnesium nitrate	Mg(NO <sub>3</sub> ) <sub>2</sub>	10377-60-3	148.314	wh cub cry			≈2.3	71.2 <sup>25</sup>	
1642	Magnesium nitrate dihydrate	Mg(NO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	15750-45-5	184.345	wh cry	≈100 dec		1.45	71.2 <sup>25</sup>	s EtOH
1643	Magnesium nitrate hexahydrate	Mg(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13446-18-9	256.406	col monocl cry; hyg	≈95 dec		1.46	71.2 <sup>25</sup>	s EtOH
1644	Magnesium nitride	Mg <sub>3</sub> N <sub>2</sub>	12057-71-5	100.928	yel cub cry	≈1500 dec		2.71		
1645	Magnesium nitrite trihydrate	Mg(NO <sub>2</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	15070-34-5	170.362	wh hyg prisms	100 dec			129.9 <sup>25</sup>	s EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1646	Magnesium orthosilicate	Mg <sub>2</sub> SiO <sub>4</sub>	26686-77-1	140.694	wh orth cry	1897		3.21		i H <sub>2</sub> O
1647	Magnesium orthotitanate	Mg <sub>2</sub> TiO <sub>4</sub>	12032-52-9	160.475	wh cub cry	1840		3.53		
1648	Magnesium oxalate	MgC <sub>2</sub> O <sub>4</sub>	547-66-0	112.324	wh powder				0.038 <sup>25</sup>	
1649	Magnesium oxalate dihydrate	MgC <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	6150-88-5	148.354	wh powder				0.038 <sup>25</sup>	i EtOH; s dil acid
1650	Magnesium oxide	MgO	1309-48-4	40.304	wh cub cry	2825	3600	3.6		sl H <sub>2</sub> O; i EtOH
1651	Magnesium perborate heptahydrate	Mg(BO <sub>2</sub> ) <sub>2</sub> · 7H <sub>2</sub> O	14635-87-1	268.030	wh pow					sl H <sub>2</sub> O
1652	Magnesium perchlorate	Mg(ClO <sub>4</sub> ) <sub>2</sub>	10034-81-8	223.206	wh hyg powder	250 dec		2.2	100 <sup>25</sup>	
1653	Magnesium perchlorate hexahydrate	Mg(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13446-19-0	331.298	wh hyg cry	190 dec		1.98	100 <sup>25</sup>	s EtOH
1654	Magnesium permanganate hexahydrate	Mg(MnO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10377-62-5	370.268	blue-blk cry	dec		2.18		s H <sub>2</sub> O
1655	Magnesium peroxide	MgO <sub>2</sub>	1335-26-8	56.304	wh cub cry	100 dec		≈3.0		i H <sub>2</sub> O; s dil acid
1656	Magnesium phosphate pentahydrate	Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 5H <sub>2</sub> O	7757-87-1*	352.934	wh cry	400 dec			0.00009 <sup>20</sup>	s dil acid
1657	Magnesium phosphate octahydrate	Mg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	13446-23-6	406.980	wh monocl cry			2.17	0.00009 <sup>20</sup>	s acid
1658	Magnesium pyrophosphate	Mg <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	13446-24-7	222.553	col monocl plates	1395		2.56		
1659	Magnesium pyrophosphate trihydrate	Mg <sub>2</sub> P <sub>2</sub> O <sub>7</sub> · 3H <sub>2</sub> O	10102-34-8	276.600	wh powder	100 dec		2.56		i H <sub>2</sub> O; s acid
1660	Magnesium phosphide	Mg <sub>3</sub> P <sub>2</sub>	12057-74-8	134.863	yel cub cry			2.06		reac H <sub>2</sub> O
1661	Magnesium selenate hexahydrate	MgSeO <sub>4</sub> · 6H <sub>2</sub> O	13446-28-1	275.35	wh monocl cry			1.928	55.5 <sup>25</sup>	
1662	Magnesium selenide	MgSe	1313-04-8	103.27	brn cub cry			4.2		reac H <sub>2</sub> O
1663	Magnesium selenite hexahydrate	MgSeO <sub>3</sub> · 6H <sub>2</sub> O	15593-61-0	259.36	col hex cry			2.09		i H <sub>2</sub> O; s dil acid
1664	Magnesium hexafluorosilicate hexahydrate	MgSiF <sub>6</sub> · 6H <sub>2</sub> O	60950-56-3	274.472	wh cry	120 dec		1.79	39.3 <sup>18</sup>	i EtOH
1665	Magnesium silicide	Mg <sub>2</sub> Si	22831-39-6	76.696	gray cub cry	1102		1.99		reac H <sub>2</sub> O
1666	Magnesium stannide	Mg <sub>2</sub> Sn	1313-08-2	167.320	blue cub cry	771		3.60		s H <sub>2</sub> O, dil HCl
1667	Magnesium sulfate	MgSO <sub>4</sub>	7487-88-9	120.368	col orth cry	1137		2.66	35.7 <sup>25</sup>	
1668	Magnesium sulfate monohydrate	MgSO <sub>4</sub> · H <sub>2</sub> O	14168-73-1	138.383	col monocl cry	150 dec		2.57	35.7 <sup>25</sup>	
1669	Magnesium sulfate heptahydrate	MgSO <sub>4</sub> · 7H <sub>2</sub> O	10034-99-8	246.474	col orth cry	150 dec		1.67	35.7 <sup>25</sup>	sl EtOH
1670	Magnesium sulfide	MgS	12032-36-9	56.370	red-brn cub cry	2226		2.68		reac H <sub>2</sub> O
1671	Magnesium sulfite trihydrate	MgSO <sub>3</sub> · 3H <sub>2</sub> O	19086-20-5	158.414	col orth cry			2.12	0.79 <sup>25</sup>	
1672	Magnesium sulfite hexahydrate	MgSO <sub>3</sub> · 6H <sub>2</sub> O	13446-29-2	212.460	wh hex cry	200 dec		1.72	0.79 <sup>25</sup>	i EtOH
1673	Magnesium tetrahydrogen phosphate dihydrate	Mg(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	15609-80-0	254.311	wh hyg cry	dec 90				s H <sub>2</sub> O; i EtOH
1674	Magnesium thiocyanate tetrahydrate	Mg(SCN) <sub>2</sub> · 4H <sub>2</sub> O	306-61-6	212.531	wh hyg cry					vs H <sub>2</sub> O, EtOH
1675	Magnesium thiosulfate hexahydrate	MgS <sub>2</sub> O <sub>3</sub> · 6H <sub>2</sub> O	13446-30-5	244.525	col cry	170 dec		1.82	93 <sup>25</sup>	i EtOH
1676	Magnesium trisilicate	Mg <sub>3</sub> Si <sub>3</sub> O <sub>8</sub>	14987-04-3	260.862	wh powder					i H <sub>2</sub> O, EtOH
1677	Magnesium tungstate	MgWO <sub>4</sub>	13573-11-0	272.14	wh monocl cry			6.89	0.016 <sup>20</sup>	i EtOH
1678	Magnesium vanadate	Mg <sub>2</sub> V <sub>2</sub> O <sub>7</sub>	13568-63-3	262.489	tricl cry			3.1		
1679	Magnesium zirconate	MgZrO <sub>3</sub>	12032-31-4	163.527	col cry	2060		4.23		
1680	Magnesium zirconium silicate	MgO · ZrO <sub>2</sub> · SiO <sub>2</sub>	52110-05-1	223.612	wh solid					i H <sub>2</sub> O, alk; sl acid
1681	Manganese	Mn	7439-96-5	54.938	hard gray metal	1246	2061	7.3		s dil acids
1682	Manganocene	Mn(C <sub>8</sub> H <sub>8</sub> ) <sub>2</sub>	1271-27-8	185.124	yel-brn cry	173				s py, thf, sl bz
1683	Manganese antimonide (MnSb)	MnSb	12032-82-5	176.698	hex cry	840		6.9		
1684	Manganese antimonide (Mn <sub>2</sub> Sb)	Mn <sub>2</sub> Sb	12032-97-2	231.636	tetr cry	948		7.0		
1685	Manganese boride (MnB)	MnB	12045-15-7	65.749	orth cry	1890		6.45		
1686	Manganese boride (MnB <sub>2</sub> )	MnB <sub>2</sub>	12228-50-1	76.560	hex cry	1827		5.3		
1687	Manganese boride (Mn <sub>2</sub> B)	Mn <sub>2</sub> B	12045-16-8	120.687	red-brn tetr cry	1580		7.20		
1688	Manganese carbide	Mn <sub>3</sub> C	12266-65-8	176.825	refrac solid	1520		6.89		
1689	Manganese carbonyl	Mn <sub>5</sub> (CO) <sub>10</sub>	10170-69-1	389.977	yel monocl cry	154		1.75		i H <sub>2</sub> O; s os
1690	Manganese pentacarbonyl bromide	Mn(CO) <sub>5</sub> Br	14516-54-2	274.893	oran-yel cry					s os
1691	Manganese phosphide (MnP)	MnP	12032-78-9	85.912	orth cry	1147		5.49		
1692	Manganese phosphide (Mn <sub>2</sub> P)	Mn <sub>2</sub> P	12333-54-9	140.850	hex cry	1327		6.0		
1693	Manganese silicide	MnSi <sub>2</sub>	12032-86-9	111.109	gray solid	1152 dec				
1694	Manganese(II) acetate tetrahydrate	Mn(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	6156-78-1	245.087	red monocl cry	80		1.59		s H <sub>2</sub> O, EtOH
1695	Manganese(II) bromide	MnBr <sub>2</sub>	13446-03-2	214.746	pink hex cry	698		4.385	151 <sup>25</sup>	
1696	Manganese(II) bromide tetrahydrate	MnBr <sub>2</sub> · 4H <sub>2</sub> O	10031-20-6	286.808	red hyg cry	64 dec			151 <sup>25</sup>	
1697	Manganese(II) carbonate	MnCO <sub>3</sub>	598-62-9	114.947	pink hex cry	>200 dec		3.70	0.00008 <sup>20</sup>	s dil acid
1698	Manganese(II) chloride	MnCl <sub>2</sub>	7773-01-5	125.844	pink trig cry; hyg	650	1190	2.977	77.3 <sup>25</sup>	s py, EtOH; i eth
1699	Manganese(II) chloride tetrahydrate	MnCl <sub>2</sub> · 4H <sub>2</sub> O	13446-34-9	197.906	red monocl cry; hyg	87.5		1.913	77.3 <sup>25</sup>	s EtOH; i eth
1700	Manganese(II) dihydrogen phosphate dihydrate	Mn(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	18718-07-5	284.944	col hyg cry					s H <sub>2</sub> O; i EtOH
1701	Manganese(II) fluoride	MnF <sub>2</sub>	7782-64-1	92.935	red tetr cry	900		3.98	1.02 <sup>25</sup>	i EtOH
1702	Manganese(II) hydroxide	Mn(OH) <sub>2</sub>	18933-05-6	88.953	pink hex cry	dec		3.26	0.00034 <sup>20</sup>	
1703	Manganese(II) hypophosphite monohydrate	Mn(H <sub>2</sub> PO <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	10043-84-2	202.931	pink cry	>250			15 <sup>20</sup>	s H <sub>2</sub> O



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1704	Manganese(II) iodide	MnI <sub>2</sub>	7790-33-2	308.747	wh hex cry; hyg	638		5.04		s H <sub>2</sub> O, EtOH
1705	Manganese(II) iodide tetrahydrate	MnI <sub>2</sub> · 4H <sub>2</sub> O	7790-33-2*	380.809	red cry					vs H <sub>2</sub> O; s EtOH
1706	Manganese(II) metasilicate	MnSiO <sub>3</sub>	7759-00-4	131.022	red orth cry	1291		3.48		i H <sub>2</sub> O
1707	Manganese(II) molybdate	MnMoO <sub>4</sub>	14013-15-1	214.88	yel mono cry			4.05		
1708	Manganese(II) nitrate	Mn(NO <sub>3</sub> ) <sub>2</sub>	10377-93-2	178.947	col orth cry; hyg			2.2	161 <sup>25</sup>	s diox, thf
1709	Manganese(II) nitrate tetrahydrate	Mn(NO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	20694-39-7	251.009	pink hyg cry	37.1 dec		2.13	161 <sup>25</sup>	s EtOH
1710	Manganese(II) nitrate hexahydrate	Mn(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	10377-66-9	287.039	rose mono cry	28 dec		1.8	161 <sup>25</sup>	vs EtOH
1711	Manganese(II) orthosilicate	Mn <sub>2</sub> SiO <sub>4</sub>	13568-32-6	201.960	orth cry			4.11		i H <sub>2</sub> O
1712	Manganese(II) oxalate dihydrate	MnC <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	6556-16-7	178.987	wh cry powder	150 dec		2.45	0.032 <sup>20</sup>	s acid
1713	Manganese(II) oxide	MnO	1344-43-0	70.937	grn cub cry or powder	1842		5.37		i H <sub>2</sub> O; s acid
1714	Manganese(II) perchlorate hexahydrate	Mn(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	15364-94-0	361.931	pink hex cry			2.10		
1715	Manganese(II) pyrophosphate	Mn <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	53731-35-4	283.819	wh mono cry	1196		3.71		i H <sub>2</sub> O
1716	Manganese(II) selenide	MnSe	1313-22-0	133.90	gray cub cry	1460		5.45		i H <sub>2</sub> O
1717	Manganese(II) sulfate	MnSO <sub>4</sub>	7785-87-7	151.001	wh orth cry	700	850 dec	3.25	63.7 <sup>25</sup>	
1718	Manganese(II) sulfate monohydrate	MnSO <sub>4</sub> · H <sub>2</sub> O	10034-96-5	169.016	red mono cry			2.95	63.7 <sup>25</sup>	i EtOH
1719	Manganese(II) sulfate tetrahydrate	MnSO <sub>4</sub> · 4H <sub>2</sub> O	10101-68-5	223.062	red mono cry	38 dec		2.26	63.7 <sup>25</sup>	i EtOH
1720	Manganese(II) sulfide (α form)	MnS	18820-29-6	87.003	grn cub cry	1610		4.0		i H <sub>2</sub> O; s dil acid
1721	Manganese(II) sulfide (β form)	MnS	18820-29-6	87.003	red cub cry			3.3		i H <sub>2</sub> O; s dil acid
1722	Manganese(II) sulfide (γ form)	MnS	18820-29-6	87.003	red hex cry			≈3.3		i H <sub>2</sub> O; s dil acid
1723	Manganese(II) telluride	MnTe	12032-88-1	182.54	hex cry	≈1150		6.0		
1724	Manganese(II) tetraborate octahydrate	MnB <sub>4</sub> O <sub>7</sub> · 8H <sub>2</sub> O	12228-91-0	354.300	red solid					i H <sub>2</sub> O, EtOH; s dil acid
1725	Manganese(II) titanate	MnTiO <sub>3</sub>	12032-74-5	150.803	red hex cry	1360		4.55		
1726	Manganese(II) tungstate	MnWO <sub>4</sub>	13918-22-4	302.78	wh mono cry			7.2	0.0054 <sup>20</sup>	
1727	Manganese(II,III) oxide	Mn <sub>3</sub> O <sub>4</sub>	1317-35-7	228.812	brn tetr cry	1567		4.84		i H <sub>2</sub> O; s HCl
1728	Manganese(III) acetate dihydrate	Mn(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · 2H <sub>2</sub> O	19513-05-4	268.100	brn cry					s eth, HOAc
1729	Manganese(III) fluoride	MnF <sub>3</sub>	7783-53-1	111.933	red mono cry; hyg	>600 dec		3.54		reac H <sub>2</sub> O
1730	Manganese(III) hydroxide	MnO(OH)	1332-63-4	87.945	blk mono cry	250 dec		≈4.3		i H <sub>2</sub> O
1731	Manganese(III) oxide	Mn <sub>2</sub> O <sub>3</sub>	1317-34-6	157.874	blk cub cry	1080 dec		≈5.0		i H <sub>2</sub> O
1732	Manganese(IV) oxide	MnO <sub>2</sub>	1313-13-9	86.937	blk tetr cry	535 dec		5.08		i H <sub>2</sub> O, HNO <sub>3</sub>
1733	Manganese(VII) oxide	Mn <sub>2</sub> O <sub>7</sub>	12057-92-0	221.872	grn oil; exp	5.9	95 exp	2.40		vs H <sub>2</sub> O
1734	Mendelevium	Md	7440-11-1	258	metal	827				
1735	Mercury	Hg	7439-97-6	200.59	heavy silv liq	-38.8290	356.62	13.5336		i H <sub>2</sub> O
1736	Dimethyl mercury	Hg(CH <sub>3</sub> ) <sub>2</sub>	593-74-8	230.66	liq		93	3.17		i H <sub>2</sub> O; vs EtOH, eth
1737	Mercury(I) acetate	Hg <sub>2</sub> (C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	631-60-7	519.27	col scales	dec				sl H <sub>2</sub> O; i EtOH, eth
1738	Mercury(I) bromate	Hg <sub>2</sub> (BrO <sub>3</sub> ) <sub>2</sub>	13465-33-3	656.98	col cry	dec				i H <sub>2</sub> O; sl acid
1739	Mercury(I) bromide	Hg <sub>2</sub> Br <sub>2</sub>	15385-58-7	560.99	wh tetr cry or powder	345 dec		7.307		i H <sub>2</sub> O, EtOH, eth
1740	Mercury(I) carbonate	Hg <sub>2</sub> CO <sub>3</sub>	6824-78-8	461.19	yel-brn cry	130 dec			0.0000045	i EtOH
1741	Mercury(I) chlorate	Hg <sub>2</sub> (ClO <sub>3</sub> ) <sub>2</sub>	10294-44-7	568.08	wh rhom cry	≈250 dec		6.409		sl H <sub>2</sub> O; s EtOH
1742	Mercury(I) chloride	Hg <sub>2</sub> Cl <sub>2</sub>	10112-91-1	472.09	wh tetr cry	525 tp	383 sp	7.16	0.0004 <sup>25</sup>	i EtOH, eth
1743	Mercury(I) chromate	Hg <sub>2</sub> CrO <sub>4</sub>	13465-34-4	517.17	brn-red solid					i H <sub>2</sub> O EtOH; s conc HNO <sub>3</sub>
1744	Mercury(I) fluoride	Hg <sub>2</sub> F <sub>2</sub>	13967-25-4	439.18	yel cub cry	570 dec	subl	8.73		reac H <sub>2</sub> O
1745	Mercury(I) iodate	Hg <sub>2</sub> (IO <sub>3</sub> ) <sub>2</sub>	13465-35-5	750.99	yel-wh pow	dec 175			0.0032 <sup>20</sup>	
1746	Mercury(I) iodide	Hg <sub>2</sub> I <sub>2</sub>	15385-57-6	654.99	yel amorp powder	290		7.70		i H <sub>2</sub> O, EtOH, eth
1747	Mercury(I) nitrate	Hg <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub>	10415-75-5	525.19	cry					sl H <sub>2</sub> O
1748	Mercury(I) nitrate dihydrate	Hg <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	14836-60-3	561.22	col cry	70 dec		4.8		sl H <sub>2</sub> O
1749	Mercury(I) nitrite	Hg <sub>2</sub> (NO <sub>2</sub> ) <sub>2</sub>	13492-25-6	493.19	yel cry	100 dec		7.3		reac H <sub>2</sub> O
1750	Mercury(I) oxalate	Hg <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	2949-11-3	489.20	cry					i H <sub>2</sub> O; sl HNO <sub>3</sub>
1751	Mercury(I) oxide	Hg <sub>2</sub> O	15829-53-5	417.18	prob mixture of HgO+Hg	100 dec		9.8		i H <sub>2</sub> O; s HNO <sub>3</sub>
1752	Mercury(I) perchlorate tetrahydrate	Hg <sub>2</sub> (ClO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	65202-12-2	672.14	cry	64			442 <sup>25</sup>	
1753	Mercury(I) sulfate	Hg <sub>2</sub> SO <sub>4</sub>	7783-36-0	497.24	wh-yel cry powder			7.56	0.051 <sup>25</sup>	s dil HNO <sub>3</sub>
1754	Mercury(I) sulfide	Hg <sub>2</sub> S	51595-71-2	433.25	unstab blk pow	dec				i H <sub>2</sub> O
1755	Mercury(I) thiocyanate	Hg <sub>2</sub> (SCN) <sub>2</sub>	13465-37-7	517.34	col powder	dec			0.03 <sup>25</sup>	s HCl, KCNS
1756	Mercury(I) tungstate	Hg <sub>2</sub> WO <sub>4</sub>	38705-19-0	649.02	yel amorp solid	dec				i H <sub>2</sub> O, EtOH
1757	Mercury(II) acetate	Hg(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	1600-27-7	318.68	wh-yel cry or powder	179 dec		3.28	25 <sup>10</sup>	s EtOH
1758	Mercury(II) amide chloride	Hg(NH <sub>2</sub> )Cl	10124-48-8	252.07	wh solid		subl	5.38		i H <sub>2</sub> O, EtOH; s warm acid
1759	Mercury(II) benzoate monohydrate	Hg(C <sub>6</sub> H <sub>5</sub> O <sub>2</sub> ) <sub>2</sub> · H <sub>2</sub> O	32839-04-6	460.83	wh cry	165			1.2 <sup>15</sup>	sl EtOH
1760	Mercury(II) bromate	Hg(BrO <sub>3</sub> ) <sub>2</sub>	26522-91-8	456.39	cry	130 dec			0.15	s acid
1761	Mercury(II) bromide	HgBr <sub>2</sub>	7789-47-1	360.40	wh rhomb cry or powder	241	318	6.05	0.61 <sup>25</sup>	sl chl; s EtOH, MeOH
1762	Mercury(II) chlorate	Hg(ClO <sub>3</sub> ) <sub>2</sub>	13465-30-0	367.49	wh needles	dec		4.998	25	

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1763	Mercury(II) chloride	HgCl <sub>2</sub>	7487-94-7	271.50	wh orth cry	277	304	5.6	7.31 <sup>25</sup>	sl bz; s EtOH, MeOH, ace, eth
1764	Mercury(II) chromate	HgCrO <sub>4</sub>	13444-75-2	316.58	red monocl cry			6.06		sl H <sub>2</sub> O
1765	Mercury(II) cyanide	Hg(CN) <sub>2</sub>	592-04-1	252.62	col tetr cry	320 dec		4.00	11.4 <sup>25</sup>	s EtOH; sl eth
1766	Mercury(II) dichromate	HgCr <sub>2</sub> O <sub>7</sub>	7789-10-8	416.58	red cry powder					i H <sub>2</sub> O; s acid
1767	Mercury(II) fluoride	HgF <sub>2</sub>	7783-39-3	238.59	wh cub cry; hyg	645 dec		8.95		react H <sub>2</sub> O
1768	Mercury(II) fulminate	Hg(CNO) <sub>2</sub>	628-86-4	284.62	gray cry	exp		4.42		sl H <sub>2</sub> O; s EtOH, NH <sub>4</sub> OH
1769	Mercury(II) hydrogen arsenate	HgHAsO <sub>4</sub>	7784-37-4	340.52	yel powder					i H <sub>2</sub> O; s acid
1770	Mercury(II) iodate	Hg(IO <sub>3</sub> ) <sub>2</sub>	7783-32-6	550.40	wh powder	175 dec				i H <sub>2</sub> O
1771	Mercury(II) iodide (yellow)	HgI <sub>2</sub>	7774-29-0	454.40	yel tetr cry or powder	256	351	6.28	0.0055 <sup>25</sup>	sl EtOH, ace, eth
1772	Mercury(II) iodide (red)	HgI <sub>2</sub>	7774-29-0	454.40	red pow	trans to yel 127			0.006 <sup>25</sup>	sl EtOH, ace, eth, chl
1773	Mercury(II) nitrate	Hg(NO <sub>3</sub> ) <sub>2</sub>	10045-94-0	324.60	col hyg cry	79		4.3		s H <sub>2</sub> O; i EtOH
1774	Mercury(II) nitrate monohydrate	Hg(NO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	7783-34-8	342.62	wh-yel hyg cry			4.3		s H <sub>2</sub> O; dil acid
1775	Mercury(II) nitrate dihydrate	Hg(NO <sub>3</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	22852-67-1	360.63	monocl cry			4.78		s H <sub>2</sub> O
1776	Mercury(II) oxalate	HgC <sub>2</sub> O <sub>4</sub>	3444-13-1	288.61	powder	165 dec				i H <sub>2</sub> O
1777	Mercury(II) oxide	HgO	21908-53-2	216.59	red or yel orth cry	500 dec		11.14		i H <sub>2</sub> O, EtOH; s dil acid
1778	Mercury(II) oxide sulfate	(Hg <sub>2</sub> O) <sub>2</sub> SO <sub>4</sub>	1312-03-4	729.83	yel powder					i H <sub>2</sub> O; s acid
1779	Mercury(II) oxycyanide	Hg(CN) <sub>2</sub> · HgO	1335-31-5	469.21	wh orth cry	exp		4.44	11.4 <sup>25</sup>	
1780	Mercury(II) perchlorate trihydrate	Hg(ClO <sub>4</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	7616-83-3	453.54	cry					
1781	Mercury(II) phosphate	Hg <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7782-66-3	791.71	wh-yel powder					i H <sub>2</sub> O, EtOH; s acid
1782	Mercury(II) selenide	HgSe	20601-83-6	279.55	gray cub cry		subl	8.21		i H <sub>2</sub> O
1783	Mercury(II) sulfate	HgSO <sub>4</sub>	7783-35-9	296.65	wh monocl cry			6.47		react H <sub>2</sub> O
1784	Mercury(II) sulfide (black)	HgS	1344-48-5	232.66	blk cub cry or powder	850		7.70		i H <sub>2</sub> O; s acid, EtOH
1785	Mercury(II) sulfide (red)	HgS	1344-48-5	232.66	red hex cry	trans to blk HgS 344		8.17		i H <sub>2</sub> O, acid; s aqua regia
1786	Mercury(II) telluride	HgTe	12068-90-5	328.19	gray cub cry	673		8.63		
1787	Mercury(II) thiocyanate	Hg(SCN) <sub>2</sub>	592-85-8	316.75	monocl cry	≈165 dec		3.71	0.070 <sup>25</sup>	s dil HCl
1788	Mercury(II) tungstate	HgWO <sub>4</sub>	37913-38-5	448.43	yel cry	dec				i H <sub>2</sub> O, EtOH
1789	Molybdenum	Mo	7439-98-7	95.94	gray-blk metal; cub	2623	4639	10.2		i H <sub>2</sub> O, dil acid, alk
1790	Molybdophosphoric acid	H <sub>3</sub> P(Mo <sub>3</sub> O <sub>10</sub> ) <sub>4</sub>	51429-74-4	1825.25	bright yel cry					
1791	Molybdenum boride (Mo <sub>2</sub> B)	Mo <sub>2</sub> B	12006-99-4	202.69	refrac tetr cry	2000		9.2		
1792	Molybdenum boride (Mo <sub>2</sub> B <sub>3</sub> )	Mo <sub>2</sub> B <sub>3</sub>	12007-97-5	245.94	refrac hex cry	1600		≈7.2		
1793	Molybdenum carbide (MoC)	MoC	12011-97-1	107.95	refrac solid; cub	2577				
1794	Molybdenum carbide (Mo <sub>2</sub> C)	Mo <sub>2</sub> C	12069-89-5	203.89	gray orth cry	2687		9.18		
1795	Molybdenum carbonyl	Mo(CO) <sub>6</sub>	13939-06-5	264.00	wh orth cry	148	155 dec	1.96		i H <sub>2</sub> O; s bz; sl eth
1796	Molybdenum nitride (MoN)	MoN	12033-19-1	109.95	hex cry	1750		9.20		
1797	Molybdenum nitride (Mo <sub>2</sub> N)	Mo <sub>2</sub> N	12033-31-7	205.89	gray cub cry	790 dec		9.46		
1798	Molybdenum phosphide	MoP	12163-69-8	126.91	blk hex cry			7.34		
1799	Molybdenum silicide (MoSi <sub>2</sub> )	MoSi <sub>2</sub>	12136-78-6	152.11	gray tetr cry	≈1900		6.2		i H <sub>2</sub> O; s HF
1800	Molybdenum(II) bromide	MoBr <sub>2</sub>	13446-56-5	255.75	yel-red cry	dec 700		4.88		i H <sub>2</sub> O, EtOH
1801	Molybdenum(II) chloride	MoCl <sub>2</sub>	13478-17-6	166.85	yel cry	dec 500		3.71		i H <sub>2</sub> O
1802	Molybdenum(II) iodide	MoI <sub>2</sub>	14055-74-4	349.75	blk hyg cry	700		5.28		i H <sub>2</sub> O
1803	Molybdenum(III) bromide	MoBr <sub>3</sub>	13446-57-6	335.65	grn hex cry	dec 500		4.89		i H <sub>2</sub> O, EtOH
1804	Molybdenum(III) chloride	MoCl <sub>3</sub>	13478-18-7	202.30	dark red monocl cry	dec 400		3.74		i H <sub>2</sub> O, os
1805	Molybdenum(III) fluoride	MoF <sub>3</sub>	20193-58-2	152.94	yel-brn hex cry	>600		4.64		i H <sub>2</sub> O
1806	Molybdenum(III) iodide	MoI <sub>3</sub>	14055-75-5	476.65	blk solid	927				i H <sub>2</sub> O
1807	Molybdenum(III) oxide	Mo <sub>2</sub> O <sub>3</sub>	1313-29-7	239.88	gray-blk powder					i H <sub>2</sub> O; sl acid
1808	Molybdenum(IV) bromide	MoBr <sub>4</sub>	13520-59-7	415.56	blk cry	dec 110				react H <sub>2</sub> O
1809	Molybdenum(IV) chloride	MoCl <sub>4</sub>	13320-71-3	237.75	blk cry	317				react H <sub>2</sub> O, sl chl; i eth, bz
1810	Molybdenum(IV) fluoride	MoF <sub>4</sub>	23412-45-5	171.93	grn cry	dec				react H <sub>2</sub> O
1811	Molybdenum(IV) iodide	MoI <sub>4</sub>	14055-76-6	603.56	blk cry	dec 100				i H <sub>2</sub> O
1812	Molybdenum(IV) oxide	MoO <sub>2</sub>	18868-43-4	127.94	brn-viol tetr cry	≈1800 dec		6.47		i H <sub>2</sub> O, acid, alk
1813	Molybdenum(IV) selenide	MoSe <sub>2</sub>	12058-18-3	253.86	gray hex cry	>1200		6.90		
1814	Molybdenum(IV) sulfide	MoS <sub>2</sub>	1317-33-5	160.07	blk powder or hex cry	1750		5.06		i H <sub>2</sub> O; s conc acid
1815	Molybdenum(IV) telluride	MoTe <sub>2</sub>	12058-20-7	351.14	gray hex cry			7.7		
1816	Molybdenum(V) chloride	MoCl <sub>5</sub>	10241-05-1	273.21	grn-blk monocl cry; hyg	194	268	2.93		react H <sub>2</sub> O; s EtOH, eth
1817	Molybdenum(V) fluoride	MoF <sub>5</sub>	13819-84-6	190.93	yel monocl cry	67	213.6	3.5		react H <sub>2</sub> O
1818	Molybdenum(V) oxytrichloride	MoOCl <sub>3</sub>	13814-74-9	218.30	blk monocl cry	310	subl			react H <sub>2</sub> O
1819	Molybdenum(VI) acid monohydrate	H <sub>2</sub> MoO <sub>4</sub> · H <sub>2</sub> O	7782-91-4	179.97	wh powder			3.1		sl H <sub>2</sub> O; s alk

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1820	Molybdenum(VI) dioxydichloride	MoO <sub>2</sub> Cl <sub>2</sub>	13637-68-8	198.85	yel-oran solid	176	250	3.31		reac H <sub>2</sub> O
1821	Molybdenum(VI) dioxydifluoride	MoO <sub>2</sub> F <sub>2</sub>	13824-57-2	165.94	pale lilac cry	subl 270		3.5		i MeCN, chl; sl HF
1822	Molybdenum(VI) fluoride	MoF <sub>6</sub>	7783-77-9	209.93	wh cub cry or col liq; hyg	17.5	34.0	2.54		reac H <sub>2</sub> O; vs hex, ctc
1823	Molybdenum(VI) metaphosphate	Mo(PO <sub>3</sub> ) <sub>6</sub>	133863-98-6	569.77	yel powder			3.28		i H <sub>2</sub> O, acid
1824	Molybdenum(VI) oxide	MoO <sub>3</sub>	1313-27-5	143.94	wh-yel rhomb cry	802	1155	4.70	0.14 <sup>20</sup>	sl H <sub>2</sub> O; s alk, acid
1825	Molybdenum(VI) oxytetrachloride	MoOCl <sub>4</sub>	13814-75-0	253.75	grn hyg powder	105	159			
1826	Molybdenum(VI) oxytetrafluoride	MoOF <sub>4</sub>	14459-59-7	187.93	volatile solid	97.2	186.0			
1827	Molybdenum(VI) sulfide	MoS <sub>3</sub>	12033-29-3	192.14	blk solid	350 dec				i H <sub>2</sub> O, os
1828	Neodymium	Nd	7440-00-8	144.242	silv metal; hex	1016	3074	7.01		
1829	Neodymium boride	NdB <sub>3</sub>	12008-23-0	209.108	blk cub cry	2610		4.93		
1830	Neodymium nitride	NdN	25764-11-8	158.249	blk cub cry			7.69		
1831	Neodymium(II) acetate	Nd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	6192-13-8	321.373	red-purp cry					s H <sub>2</sub> O
1832	Neodymium(II) chloride	NdCl <sub>2</sub>	25469-93-6	215.148	grn hyg solid	841				
1833	Neodymium(III) bromate nonahydrate	Nd(BrO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	15162-92-2	690.086	red hex cry	66 dec				
1834	Neodymium(III) bromide	NdBr <sub>3</sub>	13536-80-6	383.954	viol orth cry; hyg	682	1540	5.3		s H <sub>2</sub> O
1835	Neodymium(III) chloride	NdCl <sub>3</sub>	10024-93-8	250.601	viol hex cry	759	1600	4.13	100 <sup>25</sup>	vs EtOH; i eth, chl
1836	Neodymium(III) chloride hexahydrate	NdCl <sub>3</sub> · 6H <sub>2</sub> O	13477-89-9	358.692	purp cry	124 dec		2.3	100 <sup>25</sup>	s EtOH
1837	Neodymium(III) fluoride	NdF <sub>3</sub>	13709-42-7	201.237	viol hex cry; hyg	1377	2300	6.51		i H <sub>2</sub> O
1838	Neodymium(III) hydroxide	Nd(OH) <sub>3</sub>	16469-17-3	195.264	blue solid	dec 210				i H <sub>2</sub> O
1839	Neodymium(III) iodide	NdI <sub>3</sub>	13813-24-6	524.955	grn orth cry; hyg	787		5.85		s H <sub>2</sub> O
1840	Neodymium(III) nitrate	Nd(NO <sub>3</sub> ) <sub>3</sub>	10045-95-1	330.257	viol hyg. cry				152 <sup>25</sup>	s EtOH
1841	Neodymium(III) nitrate hexahydrate	Nd(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	14517-29-4	438.348	purp hyg cry				152 <sup>25</sup>	s EtOH, ace
1842	Neodymium(III) oxide	Nd <sub>2</sub> O <sub>3</sub>	1313-97-9	336.482	blue hex cry; hyg	2233	3760	7.24		i H <sub>2</sub> O; s dil acid
1843	Neodymium(III) sulfate	Nd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13477-91-3	576.672	pink needles	~700 dec			7.1 <sup>20</sup>	
1844	Neodymium(III) sulfate octahydrate	Nd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13477-91-3	720.794	red cry	350 dec		2.85		sl H <sub>2</sub> O
1845	Neodymium(III) sulfide	Nd <sub>2</sub> S <sub>3</sub>	12035-32-4	384.679	orth cry	2207		5.46		
1846	Neodymium(III) telluride	Nd <sub>2</sub> Te <sub>3</sub>	12035-35-7	671.28	gray orth cry	1377		7.0		
1847	Neodymium(III) tris(cyclopentadienyl)	Nd(C <sub>5</sub> H <sub>5</sub> ) <sub>3</sub>	1273-98-9	339.522	red-blue cry	380				s thf
1848	Neon	Ne	7440-01-9	20.180	col gas	-248.609 tp (43 kPa)	-246.053	0.825 g/L		sl H <sub>2</sub> O
1849	Neptunium	Np	7439-99-8	237	silv metal	644		20.2		s HCl
1850	Neptunium(IV) oxide	NpO <sub>2</sub>	12035-79-9	269	grn cub cry	2547		11.1		
1851	Nickel	Ni	7440-02-0	58.693	wh metal; cub	1455	2913	8.90		i H <sub>2</sub> O; sl dil acid
1852	Nickelocene	Ni(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	1271-28-9	188.879	grn cry	173				
1853	Nickel aluminide (NiAl)	NiAl	12003-78-0	85.675	metallic solid	1638				
1854	Nickel antimonide	NiSb	12035-52-8	180.453	hex cry	1147		8.74		
1855	Nickel arsenide	NiAs	27016-75-7	133.615	hex cry	967		7.77		
1856	Nickel boride (NiB)	NiB	12007-00-0	69.504	grn refrac solid	1035		7.13		
1857	Nickel boride (Ni <sub>2</sub> B)	Ni <sub>2</sub> B	12007-01-1	128.198	refrac solid	1125		7.90		
1858	Nickel boride (Ni <sub>3</sub> B)	Ni <sub>3</sub> B	12007-02-2	186.891	refrac solid	1166		8.17		
1859	Nickel carbonyl	Ni(CO) <sub>4</sub>	13463-39-3	170.734	col liq	-19.3	42.1 (exp =60)	1.31		i H <sub>2</sub> O; s EtOH, bz, ace, ctc
1860	Nickel phosphide	Ni <sub>3</sub> P	12035-64-2	148.361	hex cry	1100		7.33		
1861	Nickel silicide (NiSi <sub>2</sub> )	NiSi <sub>2</sub>	12201-89-7	114.864	cub cry	993		4.83		
1862	Nickel silicide (Ni <sub>2</sub> Si)	Ni <sub>2</sub> Si	12059-14-2	145.473	orth cry	1255		7.40		
1863	Nickel subsulfide	Ni <sub>3</sub> S <sub>2</sub>	12035-72-2	240.210	yel hex cry	789		5.87		
1864	Nickel(II) acetate tetrahydrate	Ni(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	6018-89-9	248.842	grn monoc cry	250 dec		1.74	16 <sup>20</sup>	s H <sub>2</sub> O, EtOH
1865	Nickel(II) ammonium chloride hexahydrate	NH <sub>4</sub> NiCl <sub>3</sub> · 6H <sub>2</sub> O	16122-03-5*	291.182	grn hyg cry			1.65		s H <sub>2</sub> O
1866	Nickel(II) ammonium sulfate	Ni(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub>	15699-18-0	286.895	blue-grn cry	dec 250				sl H <sub>2</sub> O
1867	Nickel(II) ammonium sulfate hexahydrate	Ni(NH <sub>4</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	7785-20-8	394.987	blue-grn cry	dec 130		1.92	6.5 <sup>20</sup>	s H <sub>2</sub> O; i EtOH
1868	Nickel(II) arsenate octahydrate	Ni <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	7784-48-7	598.040	yel-grn powder	dec		4.98		i H <sub>2</sub> O; s acid
1869	Nickel(II) bromide	NiBr <sub>2</sub>	13462-88-9	218.501	yel hex cry; hyg	963	subl	5.10	131 <sup>20</sup>	
1870	Nickel(II) bromide trihydrate	NiBr <sub>2</sub> · 3H <sub>2</sub> O	13462-88-9*	272.547	yel-grn hyg cry	200 dec				vs H <sub>2</sub> O; s EtOH, eth
1871	Nickel(II) carbonate	NiCO <sub>3</sub>	3333-67-3	118.702	grn rhomb cry			4.389	0.0043 <sup>20</sup>	s dil acid
1872	Nickel(II) chlorate hexahydrate	Ni(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13477-94-6	333.687	grn cub cry	dec 80		2.07		vs H <sub>2</sub> O
1873	Nickel(II) chloride	NiCl <sub>2</sub>	7718-54-9	129.599	yel hex cry; hyg	1031	985 sp	3.51	67.5 <sup>25</sup>	s EtOH
1874	Nickel(II) chloride hexahydrate	NiCl <sub>2</sub> · 6H <sub>2</sub> O	7791-20-0	237.690	grn monoc cry				67.5 <sup>25</sup>	s EtOH
1875	Nickel(II) chromate	NiCrO <sub>4</sub>	14721-18-7	174.687	red solid					sl H <sub>2</sub> O
1876	Nickel(II) cyanide tetrahydrate	Ni(CN) <sub>2</sub> · 4H <sub>2</sub> O	13477-95-7	182.789	grn plates	200 dec				i H <sub>2</sub> O; sl dil acid; s NH <sub>4</sub> OH
1877	Nickel(II) fluoride	NiF <sub>2</sub>	10028-18-9	96.690	yel tet cry	1380		4.7	2.56 <sup>25</sup>	i EtOH, eth
1878	Nickel(II) fluoride tetrahydrate	NiF <sub>2</sub> · 4H <sub>2</sub> O	13940-83-5	168.752	grn pow					sl H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1879	Nickel(II) hydroxide	Ni(OH) <sub>2</sub>	12054-48-7	92.708	grn hex cry	230 dec		4.1	0.00015 <sup>20</sup>	
1880	Nickel(II) hydroxide monohydrate	Ni(OH) <sub>2</sub> · H <sub>2</sub> O	36897-37-7	110.723	grn powder				0.00015 <sup>20</sup>	s dil acid
1881	Nickel(II) iodate	Ni(IO <sub>3</sub> ) <sub>2</sub>	13477-98-0	408.498	yel needles			5.07	1.1 <sup>30</sup>	sl H <sub>2</sub> O
1882	Nickel(II) iodate tetrahydrate	Ni(IO <sub>3</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	13477-99-1	480.560	yel hex cry	dec 100		5.07		sl H <sub>2</sub> O
1883	Nickel(II) iodide	NiI <sub>2</sub>	13462-90-3	312.502	blk hex cry; hyg	800	subl	5.22	154 <sup>25</sup>	
1884	Nickel(II) iodide hexahydrate	NiI <sub>2</sub> · 6H <sub>2</sub> O	7790-34-3	420.593	grn monocl cry; hyg				154 <sup>25</sup>	vs EtOH
1885	Nickel(II) nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	13138-45-9	182.702	grn cry				99.2 <sup>25</sup>	s EtOH
1886	Nickel(II) nitrate hexahydrate	Ni(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13478-00-7	290.794	grn monocl cry; hyg	56 dec		2.05	99.2 <sup>25</sup>	s EtOH
1887	Nickel(II) oxalate dihydrate	NiC <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	6018-94-6	182.742	grn-wh solid	dec 150			0.0012 <sup>25</sup>	i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
1888	Nickel(II) oxide	NiO	1313-99-1	74.692	grn cub cry	1957		6.72		i H <sub>2</sub> O; s acid
1889	Nickel(II) perchlorate hexahydrate	Ni(ClO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13637-71-3*	365.686	grn hex needles	140			158.8 <sup>25</sup>	s EtOH, ace
1890	Nickel(II) phosphate octahydrate	Ni <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> · 8H <sub>2</sub> O	10381-36-9*	510.145	grn plates					s acid
1891	Nickel(II) selenate hexahydrate	NiSeO <sub>4</sub> · 6H <sub>2</sub> O	15060-62-5*	309.74	grn tetr cry			2.314	35.5 <sup>20</sup>	
1892	Nickel(II) selenide	NiSe	1314-05-2	137.65	yel-grn hex cry	980		7.2		
1893	Nickel(II) stannate dihydrate	NiSnO <sub>3</sub> · 2H <sub>2</sub> O	12035-38-0	261.432	grn pow	dec 120				
1894	Nickel(II) sulfate	NiSO <sub>4</sub>	7786-81-4	154.756	grn-yel orth cry	840 dec		4.01	40.4 <sup>25</sup>	
1895	Nickel(II) sulfate hexahydrate	NiSO <sub>4</sub> · 6H <sub>2</sub> O	10101-97-0	262.847	blue-grn tetr cry	≈100 dec		2.07	40.4 <sup>25</sup>	sl EtOH
1896	Nickel(II) sulfate heptahydrate	NiSO <sub>4</sub> · 7H <sub>2</sub> O	10101-98-1	280.862	grn orth cry			1.98	40.4 <sup>25</sup>	s EtOH
1897	Nickel(II) sulfide	NiS	16812-54-7	90.758	yel hex cry	976		5.5		i H <sub>2</sub> O
1898	Nickel(II) thiocyanate	Ni(SCN) <sub>2</sub>	13689-92-4	174.857	grn pwd				55.0 <sup>25</sup>	
1899	Nickel(II) titanate	NiTiO <sub>3</sub>	12035-39-1	154.558	brn hex cry			5.0		
1900	Nickel(II,III) sulfide	Ni <sub>3</sub> S <sub>4</sub>	12137-12-1	304.340	cub cry	995		4.77		
1901	Nickel(III) oxide	Ni <sub>2</sub> O <sub>3</sub>	1314-06-3	165.385	gray-blk cub cry	≈600 dec				i H <sub>2</sub> O; s hot acid
1902	Niobium	Nb	7440-03-1	92.906	gray metal; cub	2477	4744	8.57		i acid
1903	Niobocene dichloride	Nb(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> Cl <sub>2</sub>	12793-14-5	293.998	hyg blk cry					sl tol
1904	Niobium boride (NbB)	NbB	12045-19-1	103.717	gray orth cry	2270		7.5		
1905	Niobium boride (NbB <sub>2</sub> )	NbB <sub>2</sub>	12007-29-3	114.528	gray hex cry	3050		6.97		
1906	Niobium carbide (NbC)	NbC	12069-94-2	104.917	gray cub cry	3608	4300	7.82		i H <sub>2</sub> O, acid
1907	Niobium carbide (Nb <sub>2</sub> C)	Nb <sub>2</sub> C	12011-99-3	197.824	refrac hex cry	3080		7.8		i H <sub>2</sub> O
1908	Niobium nitride	NbN	24621-21-4	106.913	gray cry; cub	2300		8.47		i HCl, acid
1909	Niobium phosphide	NbP	12034-66-1	123.880	tetr cry			6.5		
1910	Niobium silicide	NbSi <sub>2</sub>	12034-80-9	149.077	gray hex cry	1950		5.7		
1911	Niobium(II) oxide	NbO	12034-57-0	108.905	gray cub cry	1937		7.30		
1912	Niobium(III) bromide	NbBr <sub>3</sub>	15752-41-7	332.618	dark brn solid		subl 400			
1913	Niobium(III) chloride	NbCl <sub>3</sub>	13569-59-0	199.265	blk solid					
1914	Niobium(III) fluoride	NbF <sub>3</sub>	15195-53-6	149.901	blue cub cry			4.2		
1915	Niobium(III) iodide	NbI <sub>3</sub>	13870-20-7	473.619	blk solid	dec 510				
1916	Niobium(IV) bromide	NbBr <sub>4</sub>	13842-75-6	412.522	dark brn cry		subl 300	4.72		rac H <sub>2</sub> O
1917	Niobium(IV) chloride	NbCl <sub>4</sub>	13569-70-5	234.718	viol-blk monocl cry	dec 800	275 subl	3.2		rac H <sub>2</sub> O
1918	Niobium(IV) fluoride	NbF <sub>4</sub>	13842-88-1	168.900	blk tetr cry; hyg	>350 dec		4.01		
1919	Niobium(IV) iodide	NbI <sub>4</sub>	13870-21-8	600.524	gray orth cry	503		5.6		rac H <sub>2</sub> O
1920	Niobium(IV) oxide	NbO <sub>2</sub>	12034-59-2	124.905	wh tetr cry or powder	1901		5.9		
1921	Niobium(IV) selenide	NbSe <sub>2</sub>	12034-77-4	250.83	gray hex cry	>1300		6.3		
1922	Niobium(IV) sulfide	NbS <sub>2</sub>	12136-97-9	157.036	blk rhomb cry			4.4		
1923	Niobium(IV) telluride	NbTe <sub>2</sub>	12034-83-2	348.11	hex cry			7.6		
1924	Niobium(V) bromide	NbBr <sub>5</sub>	13478-45-0	492.426	oran orth cry	265.2	361.6	4.36		s H <sub>2</sub> O, EtOH
1925	Niobium(V) chloride	NbCl <sub>5</sub>	10026-12-7	270.171	yel monocl cry; hyg	205.8	247.4	2.78		rac H <sub>2</sub> O; s HCl, etc
1926	Niobium(V) dioxyfluoride	NbO <sub>2</sub> F	15195-33-2	143.903	wh cub cry			4.0		
1927	Niobium(V) ethoxide	Nb(OC <sub>2</sub> H <sub>5</sub> ) <sub>5</sub>	3236-82-6	318.209	col hyg liq	5	203	1.258		rac H <sub>2</sub> O; s peth
1928	Niobium(V) fluoride	NbF <sub>5</sub>	7783-68-8	187.898	col monocl cry; hyg	80	234	2.70		rac H <sub>2</sub> O; sl CS <sub>2</sub> , chl
1929	Niobium(V) iodide	NbI <sub>5</sub>	13779-92-5	727.428	yel-blk monocl cry	327		5.32		rac H <sub>2</sub> O
1930	Niobium(V) oxide	Nb <sub>2</sub> O <sub>5</sub>	1313-96-8	265.810	wh orth cry	1500		4.47		i H <sub>2</sub> O; s HF
1931	Niobium(V) oxybromide	NbOBr <sub>3</sub>	14459-75-7	348.617	yel-brn cry	≈320 dec	subl			
1932	Niobium(V) oxychloride	NbOCl <sub>3</sub>	13597-20-1	215.264	wh tetr cry		subl	3.72		
1933	Nitrogen	N <sub>2</sub>	7727-37-9	28.013	col gas	-210.0	-195.798	1.145 g/L		sl H <sub>2</sub> O; i EtOH
1934	Nitramide	NO <sub>2</sub> NH <sub>2</sub>	7782-94-7	62.028	unstab wh cry	72 dec				s H <sub>2</sub> O, EtOH, ace, eth; i chl
1935	Nitric acid	HNO <sub>3</sub>	7697-37-2	63.013	col liq; hyg	-41.6	83	1.5129 <sup>20</sup>		vs H <sub>2</sub> O
1936	Nitrous acid	HNO <sub>2</sub>	7782-77-6	47.014	stab only in soln					
1937	Nitrous oxide	N <sub>2</sub> O	10024-97-2	44.012	col gas	-90.8	-88.48	1.799 g/L		sl H <sub>2</sub> O; s EtOH, eth
1938	Nitric oxide	NO	10102-43-9	30.006	col gas	-163.6	-151.74	1.226 g/L		sl H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1939	Nitrogen dioxide	NO <sub>2</sub>	10102-44-0	46.006	brn gas; equil with N <sub>2</sub> O <sub>4</sub>		see N <sub>2</sub> O <sub>4</sub>	1.880 g/L		reac H <sub>2</sub> O
1940	Nitrogen trioxide	N <sub>2</sub> O <sub>3</sub>	10544-73-7	76.011	blue solid or liq (low temp)	-101.1	≈3 dec	1.4 <sup>2</sup>		reac H <sub>2</sub> O
1941	Nitrogen tetroxide	N <sub>2</sub> O <sub>4</sub>	10544-72-6	92.011	col liq; equil with NO <sub>2</sub>	-9.3	21.15	1.45 <sup>20</sup>		reac H <sub>2</sub> O
1942	Nitrogen pentoxide	N <sub>2</sub> O <sub>5</sub>	10102-03-1	108.010	col hex cry		33 sp	2.0		s chl; sl ctc
1943	Nitrogen tribromide	NBr <sub>3</sub>	15162-90-0	253.719	unstab solid	exp -100				
1944	Nitrogen trichloride	NCl <sub>3</sub>	10025-85-1	120.366	yel oily liq; exp	-40	71	1.653		i H <sub>2</sub> O; s CS <sub>2</sub> , bz, ctc
1945	Nitrogen trifluoride	NF <sub>3</sub>	7783-54-2	71.002	col gas	-206.79	-128.75	2.902 g/L		i H <sub>2</sub> O
1946	Nitrogen triiodide	NI <sub>3</sub>	13444-85-4	394.720	unstab blk cry; exp					
1947	Nitrogen chloride difluoride	NOClF <sub>2</sub>	13637-87-1	87.457	col gas	-195	-67	3.575 g/L		
1948	Chloramine	NH <sub>2</sub> Cl	10599-90-3	51.476	yel liq	-66				s H <sub>2</sub> O, EtOH, eth; sl bz, ctc
1949	Fluoramine	NH <sub>2</sub> F	15861-05-9	35.021	unstab gas	≈-110		1.431 g/L		
1950	Difluoramine	NHF <sub>2</sub>	10405-27-3	53.012	col gas	-116	-23	2.167 g/L		
1951	<i>cis</i> -Difluorodiazine	N <sub>2</sub> F <sub>2</sub>	13812-43-6	66.010	col gas	<-195	-105.75	2.698 g/L		
1952	<i>trans</i> -Difluorodiazine	N <sub>2</sub> F <sub>2</sub>	13776-62-0	66.010	col gas	-172	-111.45	2.698 g/L		
1953	Tetrafluorohydrazine	N <sub>2</sub> F <sub>4</sub>	10036-47-2	104.007	col gas	-164.5	-74	4.251 g/L		
1954	Nitrosyl bromide	NOBr	13444-87-6	109.910	red gas	-56	≈0	4.492 g/L		reac H <sub>2</sub> O
1955	Nitrosyl chloride	NOCl	2696-92-6	65.459	yel gas	-59.6	-5.5	2.676 g/L		reac H <sub>2</sub> O
1956	Nitrosyl fluoride	NOF	7789-25-5	49.004	col gas	-132.5	-59.9	2.003 g/L		
1957	Trifluoramine oxide	NOF <sub>3</sub>	13847-65-9	87.001	col gas	-161	-87.5	3.556 g/L		
1958	Nitryl chloride	NO <sub>2</sub> Cl	13444-90-1	81.459	col gas	-145	-15	3.330 g/L		
1959	Nitryl fluoride	NO <sub>2</sub> F	10022-50-1	65.004	col gas	-166	-72.4	2.657 g/L		reac H <sub>2</sub> O
1960	Nitrogen selenide	N <sub>4</sub> Se <sub>4</sub>	12033-88-4	371.87	red monocl cry; hyg	exp		4.2		i H <sub>2</sub> O, eth, EtOH; sl bz, CS <sub>2</sub>
1961	Nobelium	No	10028-14-5	259.000	metal	827				
1962	Osmium	Os	7440-04-2	190.23	blue-wh metal; hex	3033	5012	22.587 <sup>20</sup>		s aqua regia
1963	Osmocene	Os(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	1273-81-0	320.42	col cry	229				
1964	Osmium carbonyl	Os <sub>5</sub> (CO) <sub>12</sub>	15696-40-9	906.81	yel cry	224		3.48		
1965	Osmium pentacarbonyl	Os(CO) <sub>5</sub>	16406-49-8	330.28	col liq	-15	dec 100			s os
1966	Osmium nonacarbonyl	Os <sub>3</sub> (CO) <sub>9</sub>	28411-13-4	632.55	oran-yel cry	65 dec				s hc
1967	Osmium(II) chloride	OsCl <sub>2</sub>	13444-92-3	261.14	hyg brn solid	dec >450				s EtOH, eth
1968	Osmium(III) bromide	OsBr <sub>3</sub>	59201-51-3	429.94	dark gray cry	340 dec				i H <sub>2</sub> O, os, acid
1969	Osmium(III) chloride	OsCl <sub>3</sub>	13444-93-4	296.59	gray cub cry	450 dec				i H <sub>2</sub> O, os; s conc acid
1970	Osmium(IV) chloride	OsCl <sub>4</sub>	10026-01-4	332.04	red-blk orth cry	323 dec		4.38		reac H <sub>2</sub> O; i os
1971	Osmium(IV) fluoride	OsF <sub>4</sub>	54120-05-7	266.22	yel cry	230				reac H <sub>2</sub> O
1972	Osmium(IV) oxide	OsO <sub>2</sub>	12036-02-1	222.23	yel-brn tetr cry	dec 500		11.4		i H <sub>2</sub> O, acid
1973	Osmium(V) fluoride	OsF <sub>5</sub>	31576-40-6	285.22	hyg blue-grn cry	70	233			reac H <sub>2</sub> O
1974	Osmium(VI) fluoride	OsF <sub>6</sub>	13768-38-2	304.22	yel cub cry	33.4	47.5	4.1		reac H <sub>2</sub> O
1975	Osmium(VI) tetrachloride oxide	OsOCl <sub>4</sub>	36509-15-6	348.04	dark brn hyg cry	32	200			reac H <sub>2</sub> O; s hc
1976	Osmium(VIII) oxide	OsO <sub>4</sub>	20816-12-0	254.23	yel monocl cry	40.6	131.2	5.1	6.44 <sup>20</sup>	sl H <sub>2</sub> O; s ctc, bz, EtOH, eth
1977	Oxygen	O <sub>2</sub>	7782-44-7	31.999	col gas	-218.79	-182.953	1.308 g/L		sl H <sub>2</sub> O, EtOH, os
1978	Ozone	O <sub>3</sub>	10028-15-6	47.998	blue gas	-193	-111.35	1.962 g/L		sl H <sub>2</sub> O
1979	Palladium	Pd	7440-05-3	106.42	silv-wh metal; cub	1554.8	2963	12.0		s aqua regia
1980	Palladium(II) acetate	Pd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	3375-31-3	224.51	oran-brn cry	205 dec				i H <sub>2</sub> O; s MeCN, eth, ace
1981	Palladium(II) bromide	PdBr <sub>2</sub>	13444-94-5	266.23	red-blk monocl cry; hyg	250 dec		≈5.2		i H <sub>2</sub> O
1982	Palladium(II) chloride	PdCl <sub>2</sub>	7647-10-1	177.33	red rhomb cry; hyg	679		4.0		s H <sub>2</sub> O, EtOH, ace
1983	Palladium(II) chloride dihydrate	PdCl <sub>2</sub> · 2H <sub>2</sub> O	7647-10-1*	213.36	brn cry					s H <sub>2</sub> O, EtOH, ace
1984	Palladium(II) cyanide	Pd(CN) <sub>2</sub>	2035-66-7	158.45	yel solid	dec				
1985	Palladium(II) fluoride	PdF <sub>2</sub>	13444-96-7	144.42	viol tetr cry; hyg	952		5.76		reac H <sub>2</sub> O
1986	Palladium(II) iodide	PdI <sub>2</sub>	7790-38-7	360.23	blk cry	360 dec		6.0		i H <sub>2</sub> O, EtOH, eth
1987	Palladium(II) nitrate	Pd(NO <sub>3</sub> ) <sub>2</sub>	10102-05-3	230.43	brn hyg cry	dec				sl H <sub>2</sub> O; s dil HNO <sub>3</sub>
1988	Palladium(II) oxide	PdO	1314-08-5	122.42	grn-blk tetr cry	750 dec		8.3		i H <sub>2</sub> O, acid; sl aqua regia
1989	Palladium(II) 2,4-pentanedioate	Pd(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>2</sub>	14024-61-4	304.64	oran-yel cry	205 dec				s bz, chl
1990	Palladium(II) sulfate dihydrate	PdSO <sub>4</sub> · 2H <sub>2</sub> O	13566-03-5	238.51	grn-brn cry	dec				
1991	Palladium(II) sulfide	PdS	12125-22-3	138.49	gray tetr cry			6.7		
1992	<i>cis</i> -Dichlorodiamminepalladium(II)	Pd(NH <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub>	15684-18-1	211.39	yel pow				0.025 <sup>25</sup>	
1993	<i>trans</i> -Dichlorodiamminepalladium(II)	Pd(NH <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub>	13782-33-7	211.39	yel solid			2.50		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
1994	Phosphorus (white)	P	7723-14-0	30.974	col waxlike cub cry	44.15	280.5	1.823		i H <sub>2</sub> O; sl bz, EtOH, chl; s CS <sub>2</sub>
1995	Phosphorus (red)	P	7723-14-0	30.974	red-viol amorp powder	579.2	431 sp	2.16		i H <sub>2</sub> O, os
1996	Phosphorus (black)	P	7723-14-0	30.974	blk orth cry or amorp solid	610		2.69		i os
1997	Phosphine	PH <sub>3</sub>	7803-51-2	33.998	col gas; flam	-133.8	-87.75	1.390 g/L		i H <sub>2</sub> O; sl EtOH, eth
1998	Diphosphine	P <sub>2</sub> H <sub>4</sub>	13445-50-6	65.980	col liq	-99	63.5 dec			reac H <sub>2</sub> O
1999	Diphosphorus tetrachloride	P <sub>2</sub> Cl <sub>4</sub>	13497-91-1	203.760	col oily liq	-28	≈180 dec			
2000	Diphosphorus tetrafluoride	P <sub>2</sub> F <sub>4</sub>	13824-74-3	137.942	col gas	-86.5	-6.2	5.638 g/L		
2001	Diphosphorus tetraiodide	P <sub>2</sub> I <sub>4</sub>	13455-00-0	569.566	red tricl needles	125.5	dec	3.89		
2002	Phosphonium chloride	PH <sub>4</sub> Cl	24567-53-1	70.459	gas		-27 sp	2.880 g/L		reac H <sub>2</sub> O
2003	Phosphonium iodide	PH <sub>4</sub> I	12125-09-6	161.910	col tetr cry	18.5	62.5	2.86		reac H <sub>2</sub> O, EtOH
2004	Phosphoric acid	H <sub>3</sub> PO <sub>4</sub>	7664-38-2	97.995	col visc liq	42.4	407		548 <sup>20</sup>	s EtOH
2005	Phosphotungstic acid	H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub>	12067-99-1	2880.05	wh-yel cry	89				vs H <sub>2</sub> O; s EtOH, eth
2006	Phosphonic acid	H <sub>3</sub> PO <sub>3</sub>	13598-36-2	81.996	wh hyg cry	74.4	200	1.65	309 <sup>1</sup>	vs EtOH
2007	Phosphinic acid	HPH <sub>2</sub> O <sub>2</sub>	6303-21-5	65.997	hyg cry or col oily liq	26.5	130	1.49		vs H <sub>2</sub> O, EtOH, eth
2008	Metaphosphoric acid	HPO <sub>3</sub>	37267-86-0	79.980	gl solid; hyg					sl H <sub>2</sub> O; s EtOH
2009	Hypophosphoric acid	H <sub>4</sub> P <sub>2</sub> O <sub>6</sub>	7803-60-3	161.976	col orth cry	73 dec				vs H <sub>2</sub> O
2010	Diphosphoric acid	H <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	2466-09-3	177.975	wh cry	71.5			709 <sup>23</sup>	
2011	Difluorophosphoric acid	HPO <sub>2</sub> F <sub>2</sub>	13779-41-4	101.978	col liq	≈-94	110 dec	1.583		reac H <sub>2</sub> O
2012	Hexafluorophosphoric acid	HPF <sub>6</sub>	16940-81-1	145.972	col oily liq	25 dec				reac H <sub>2</sub> O
2013	Fluorophosphonic acid	H <sub>2</sub> PFO <sub>3</sub>	13537-32-1	99.986	col visc liq	<-70		1.82		vs H <sub>2</sub> O
2014	Phosphorus nitride (P <sub>2</sub> N <sub>2</sub> )	P <sub>2</sub> N <sub>2</sub>	12136-91-3	162.955	yel-brn solid	800 dec				i H <sub>2</sub> O; s os
2015	Phosphorus sesquisulfide	P <sub>4</sub> S <sub>3</sub>	1314-85-8	220.090	yel-grn orth cry	173	407	2.03		i H <sub>2</sub> O; s bz; vs CS <sub>2</sub>
2016	Phosphorus heptasulfide	P <sub>4</sub> S <sub>7</sub>	12037-82-0	348.350	pale yel monocl cry	308	523	2.19		sl CS <sub>2</sub>
2017	Phosphonitrilic chloride trimer	(PNCl <sub>2</sub> ) <sub>3</sub>	940-71-6	347.659	wh hyg cry	128.8		1.98		reac H <sub>2</sub> O
2018	Phosphorus(III) bromide	PBr <sub>3</sub>	7789-60-8	270.686	col liq	-41.5	173.2	2.8		reac H <sub>2</sub> O, EtOH; s ace, CS <sub>2</sub>
2019	Phosphorus(III) dibromide fluoride	PBr <sub>2</sub> F	15597-39-4	209.780	col liq	-115	78.5			
2020	Phosphorus(III) bromide difluoride	PBrF <sub>2</sub>	15597-40-7	148.875	col gas	-133.8	-16.1	6.085 g/L		
2021	Phosphorus(III) chloride	PCl <sub>3</sub>	7719-12-2	137.333	col liq	-93	76	1.574		reac H <sub>2</sub> O, EtOH; s bz, chl, eth
2022	Phosphorus(III) dichloride fluoride	PCl <sub>2</sub> F	15597-63-4	120.878	col gas	-144	13.85	4.941 g/L		
2023	Phosphorus(III) chloride difluoride	PClF <sub>2</sub>	14335-40-1	104.424	col gas	-164.8	-47.3	4.268 g/L		
2024	Phosphorus(III) fluoride	PF <sub>3</sub>	7783-55-3	87.969	col gas	-151.5	-101.8	3.596 g/L		reac H <sub>2</sub> O
2025	Phosphorus(III) iodide	PI <sub>3</sub>	13455-01-1	411.687	red-oran hex cry; hyg	61.2	227 dec	4.18		reac H <sub>2</sub> O; s EtOH
2026	Phosphorus(III) oxide	P <sub>2</sub> O <sub>3</sub>	1314-24-5	109.946	col monocl cry or liq	23.8	173	2.13		reac H <sub>2</sub> O
2027	Tetraphosphorus(III) hexoxide	P <sub>4</sub> O <sub>6</sub>	12440-00-5	219.891	soft wh cry	23.8	175.4			
2028	Phosphorus(III) selenide	P <sub>2</sub> Se <sub>3</sub>	1314-86-9	298.83	oran-red cry	245	≈380	1.31		reac H <sub>2</sub> O; s bz, ctc, CS <sub>2</sub> , ace
2029	Phosphorus(III) sulfide	P <sub>2</sub> S <sub>3</sub>	12165-69-4	158.143	yel solid	290	490			reac H <sub>2</sub> O; s EtOH, eth, CS <sub>2</sub>
2030	Phosphorus(V) bromide	PBr <sub>5</sub>	7789-69-7	430.494	yel orth cry, hyg	≈100 dec		3.61		reac H <sub>2</sub> O, EtOH; s CS <sub>2</sub> , ctc
2031	Phosphorus(V) tetrabromide fluoride	PBr <sub>4</sub> F		369.588	pale yel cry	87 dec				
2032	Phosphorus(V) dibromide trifluoride	PBr <sub>2</sub> F <sub>3</sub>	13445-58-4	247.777	yel-red liq	-20	15 dec			
2033	Phosphorus(V) chloride	PCl <sub>5</sub>	10026-13-8	208.239	wh-yel tetr cry; hyg	167 tp	160 sp	2.1		reac H <sub>2</sub> O; s CS <sub>2</sub> , ctc
2034	Phosphorus(V) tetrachloride fluoride	PCl <sub>4</sub> F	13498-11-8	191.784	col liq	-59	30 dec			
2035	Phosphorus(V) trichloride difluoride	PCl <sub>3</sub> F <sub>2</sub>	13537-23-0	175.330	col liq	-63				
2036	Phosphorus(V) dichloride trifluoride	PCl <sub>2</sub> F <sub>3</sub>	13454-99-4	158.875	col gas	-125	7.1	6.494 g/L		
2037	Phosphorus(V) chloride tetrafluoride	PClF <sub>4</sub>	13498-11-8	142.421	col gas	-132	-43.4	5.821 g/L		
2038	Phosphorus(V) fluoride	PF <sub>5</sub>	7647-19-0	125.966	col gas	-93.8	-84.6	5.149 g/L		reac H <sub>2</sub> O
2039	Phosphorus(V) oxide	P <sub>2</sub> O <sub>5</sub>	1314-56-3	141.945	wh orth cry; hyg	562	605	2.30		reac H <sub>2</sub> O, EtOH
2040	Phosphorus(V) selenide	P <sub>2</sub> Se <sub>5</sub>	1314-82-5	456.75	blk-purp amorp solid					reac hot H <sub>2</sub> O, ctc; i CS <sub>2</sub>
2041	Phosphorus(V) sulfide	P <sub>2</sub> S <sub>5</sub>	1314-80-3	222.273	grn-yel hyg cry	285	515	2.03		reac H <sub>2</sub> O; s CS <sub>2</sub>
2042	Phosphonic difluoride	POF <sub>2</sub> H	14939-34-5	85.978	volatile liq	>-120	≈60 (gas unstab)			

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2043	Phosphoryl bromide	POBr <sub>3</sub>	7789-59-5	286.685	faint oran plates	55	191.7	2.822		reac H <sub>2</sub> O; s bz, eth, chl
2044	Phosphoryl dibromide chloride	POBr <sub>2</sub> Cl	13550-31-7	242.234	yel solid	31	165			
2045	Phosphoryl dibromide fluoride	POBr <sub>2</sub> F	14014-19-8	225.779	col liq	-117.2	110.1			
2046	Phosphoryl bromide dichloride	POBrCl <sub>2</sub>	13455-03-3	197.783	col liq	11	136.5	2.104 <sup>14</sup>		
2047	Phosphoryl bromide difluoride	POBrF <sub>2</sub>	14014-18-7	164.874	col liq	-84.8	31.6			
2048	Phosphoryl bromide chloride fluoride	POBrClF	14518-81-1	181.328	col liq		79			
2049	Phosphoryl chloride	POCl <sub>3</sub>	10025-87-3	153.332	col liq	1.18	105.5	1.645		reac H <sub>2</sub> O, EtOH
2050	Phosphoryl dichloride fluoride	POCl <sub>2</sub> F	13769-76-1	136.877	col liq	-80.1	52.9			
2051	Phosphoryl chloride difluoride	POClF <sub>2</sub>	13769-75-0	120.423	col gas	-96.4	3.1	4.922 g/L		
2052	Phosphoryl fluoride	POF <sub>3</sub>	13478-20-1	103.968	col gas	-39.1 tp	-39.7 sp	4.250 g/L		reac H <sub>2</sub> O
2053	Phosphoryl iodide	POI <sub>3</sub>	13455-04-4	427.686	viol cry	53				
2054	Phosphorothioic tribromide	PSBr <sub>3</sub>	3931-89-3	302.751	yel cry	37.8	212 dec	2.85		
2055	Phosphorothioic dibromide fluoride	PSBr <sub>2</sub> F	13706-10-0	241.845	yel liq	-75.2	125.3			
2056	Phosphorothioic bromide difluoride	PSBrF <sub>2</sub>	13706-09-7	180.940	yel liq	-136.9	35.5			
2057	Phosphorothioic trichloride	PSCl <sub>3</sub>	3982-91-0	169.398	fuming liq	-36.2	125	1.635		reac H <sub>2</sub> O; s bz, ctc, chl, CS <sub>2</sub>
2058	Phosphorothioic dichloride fluoride	PSCl <sub>2</sub> F	155698-29-6	152.943	col liq	-96.0	64.7			
2059	Phosphorothioic chloride difluoride	PSClF <sub>2</sub>	2524-02-9	136.489	col gas	-155.2	6.3	5.579 g/L		
2060	Phosphorothioic trifluoride	PSF <sub>3</sub>	2404-52-6	120.034	col gas	-148.8	-52.25	4.906 g/L		
2061	Phosphorothioic triiodide	PSI <sub>3</sub>	63972-04-3	443.752	yel cry	48	dec			
2062	Platinum	Pt	7440-06-4	195.084	silv-gray metal; cub	1768.2	3825	21.5		i acid; s aqua regia
2063	Hexachloroplatinic acid	H <sub>2</sub> PtCl <sub>6</sub>	16941-12-1	409.818	hyg yel-brn cry	60				s H <sub>2</sub> O, EtOH
2064	Hydrogen hexahydroxyplatinate(IV)	H <sub>2</sub> Pt(OH) <sub>6</sub>	51850-20-5	299.144	yel needles	dec 100				s H <sub>2</sub> O, acid, dil alk
2065	Platinum(II) bromide	PtBr <sub>2</sub>	13455-12-4	354.892	red-brn powder	250 dec		6.65		i H <sub>2</sub> O
2066	Platinum(II) chloride	PtCl <sub>2</sub>	10025-65-7	265.990	grn hex cry	581 dec		6.0		i H <sub>2</sub> O, EtOH, eth; s HCl
2067	Platinum(II) cyanide	Pt(CN) <sub>2</sub>	592-06-3	247.118	pale yel cry					i H <sub>2</sub> O, acid, alk
2068	Platinum(II) iodide	PtI <sub>2</sub>	7790-39-8	448.893	blk powder	325 dec		6.4		i H <sub>2</sub> O
2069	Platinum(II) oxide	PtO	12035-82-4	211.083	blk tetr cry	325 dec		14.1		i H <sub>2</sub> O, EtOH; s aqua regia
2070	Platinum(II) sulfide	PtS	12038-20-9	227.149	tetr cry			10.25		
2071	Platinum(III) bromide	PtBr <sub>3</sub>	25985-07-3	434.796	grn-blk cry	200 dec				
2072	Platinum(III) chloride	PtCl <sub>3</sub>	25909-39-1	301.443	grn-blk cry	435 dec		5.26		
2073	Platinum(IV) bromide	PtBr <sub>4</sub>	68938-92-1	514.700	brn-blk cry	180 dec			0.41 <sup>20</sup>	sl EtOH, eth
2074	Platinum(IV) chloride	PtCl <sub>4</sub>	37773-49-2	336.896	red-brn cub cry	327 dec		4.30	142 <sup>25</sup>	
2075	Platinum(IV) chloride pentahydrate	PtCl <sub>4</sub> · 5H <sub>2</sub> O	13454-96-1	426.972	red cry			2.43		s H <sub>2</sub> O, EtOH
2076	Platinum(IV) fluoride	PtF <sub>4</sub>	13455-15-7	271.078	red cry	600				
2077	Platinum(IV) iodide	PtI <sub>4</sub>	7790-46-7	702.702	brn-blk powder	130 dec				s H <sub>2</sub> O
2078	Platinum(IV) oxide	PtO <sub>2</sub>	1314-15-4	227.083	blk hex cry	450		11.8		i H <sub>2</sub> O; s conc acid, dil alk
2079	Platinum(IV) sulfide	PtS <sub>2</sub>	12038-21-0	259.214	hex cry			7.85		
2080	Platinum(VI) fluoride	PtF <sub>6</sub>	13693-05-5	309.074	red cub cry	61.3	69.1	≈4.0		
2081	cis-Diamminedichloroplatinum	Pt(NH <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub>	15663-27-1	300.051	yel solid	270 dec			0.253 <sup>25</sup>	
2082	trans-Diamminedichloroplatinum	Pt(NH <sub>3</sub> ) <sub>2</sub> Cl <sub>2</sub>	14913-33-8	300.051	pale yel solid	270 dec			0.036 <sup>25</sup>	s DMF, DMSO
2083	Hexachloroplatinic acid hexahydrate	H <sub>2</sub> PtCl <sub>6</sub> · 6H <sub>2</sub> O	16941-12-1	517.909	brn-yel hyg cry	60		2.43	140 <sup>18</sup>	vs EtOH
2084	Platinum silicide	PtSi	12137-83-6	223.170	orth cry	1229		12.4		
2085	Plutonium	Pu	7440-07-5	244	silv-wh metal; monocl	640	3228	19.7		
2086	Plutonium nitride	PuN	12033-54-4	258	gray cub cry	2550		14.4		
2087	Plutonium(II) oxide	PuO	12035-83-5	260	cub cry			14.0		
2088	Plutonium(III) bromide	PuBr <sub>3</sub>	15752-46-2	484	grn orth cry	681		6.75		s H <sub>2</sub> O
2089	Plutonium(III) chloride	PuCl <sub>3</sub>	13569-62-5	350	grn hex cry	760		5.71		s H <sub>2</sub> O
2090	Plutonium(III) fluoride	PuF <sub>3</sub>	13842-83-6	301	purp hex cry	1396		9.33		i H <sub>2</sub> O; sl acid
2091	Plutonium(III) iodide	PuI <sub>3</sub>	13813-46-2	625	grn orth cry; hyg	777		6.92		s H <sub>2</sub> O
2092	Plutonium(III) oxide	Pu <sub>2</sub> O <sub>3</sub>	12036-34-9	536	blk cub cry	2085		10.5		
2093	Plutonium(IV) fluoride	PuF <sub>4</sub>	13709-56-3	320	red-brn monocl cry	1037		7.1		
2094	Plutonium(IV) oxide	PuO <sub>2</sub>	12059-95-9	276	yel-brn cub cry	2390		11.5		
2095	Plutonium(VI) fluoride	PuF <sub>6</sub>	13693-06-6	358	red-brn orth cry	51.6		5.08		
2096	Polonium	Po	7440-08-6	209	silv metal; cub	254	962	9.20		
2097	Polonium(IV) chloride	PoCl <sub>4</sub>	10026-02-5	351	yel hyg cry	≈300	390			s H <sub>2</sub> O, EtOH, ace
2098	Polonium(IV) oxide	Po <sub>2</sub> O <sub>3</sub>	7446-06-2	241	yel cub cry	500 dec		8.9		
2099	Potassium	K	7440-09-7	39.098	soft silv-wh metal; cub	63.5	759	0.89		reac H <sub>2</sub> O
2100	Potassium acetate	KC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	127-08-2	98.142	wh hyg cry	309		1.57	269 <sup>25</sup>	s EtOH; i eth

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2101	Potassium aluminate trihydrate	K <sub>2</sub> Al <sub>2</sub> O <sub>4</sub> · 3H <sub>2</sub> O	12003-63-3*	250.204	wh orth cry			2.13		vs H <sub>2</sub> O; i EtOH
2102	Potassium aluminum silicate	KAlSi <sub>3</sub> O <sub>8</sub>	1327-44-2	278.332	col monocl cry			2.56		i H <sub>2</sub> O
2103	Potassium aluminum sulfate	KAl(SO <sub>4</sub> ) <sub>2</sub>	10043-67-1	258.205	wh hyg powder				5.9 <sup>20</sup>	
2104	Potassium aluminum sulfate dodecahydrate	KAl(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7784-24-9	474.389	col cry	≈100 dec		1.72	5.9 <sup>20</sup>	
2105	Potassium amide	KNH <sub>2</sub>	17242-52-3	55.121	wh/yel-grn hyg cry	335				reac H <sub>2</sub> O, EtOH
2106	Potassium arsenate	K <sub>3</sub> AsO <sub>4</sub>	13464-36-3	256.215	col cry			2.8	125 <sup>25</sup>	
2107	Potassium arsenite	KAsO <sub>2</sub>	13464-35-2	146.019	wh hyg powder					s H <sub>2</sub> O; i EtOH
2108	Potassium azide	KN <sub>3</sub>	20762-60-1	81.118	tetr cry; exp			2.04	49.7 <sup>17</sup>	
2109	Potassium borohydride	KBH <sub>4</sub>	13762-51-1	53.941	wh cub cry	≈500 dec		1.11		s H <sub>2</sub> O
2110	Potassium bromate	KBrO <sub>3</sub>	7758-01-2	167.000	wh hex cry	434 dec		3.27	8.17 <sup>25</sup>	i EtOH
2111	Potassium bromide	KBr	7758-02-3	119.002	col cub cry; hyg	734	1435	2.74	67.8 <sup>25</sup>	sl EtOH
2112	Potassium carbonate	K <sub>2</sub> CO <sub>3</sub>	584-08-7	138.206	wh monocl cry; hyg	899	dec	2.29	111 <sup>25</sup>	i EtOH
2113	Potassium carbonate sesquihydrate	K <sub>2</sub> CO <sub>3</sub> · 1.5H <sub>2</sub> O	6381-79-9	165.229	granular cry				111 <sup>20</sup>	
2114	Potassium chlorate	KClO <sub>3</sub>	3811-04-9	122.549	wh monocl cry	357	dec	2.34	8.61 <sup>25</sup>	
2115	Potassium chloride	KCl	7447-40-7	74.551	wh cub cry	771		1.988	35.5 <sup>25</sup>	i eth, ace
2116	Potassium chlorochromate	KCrO <sub>3</sub> Cl	16037-50-6	174.545	oran cry			2.5		reac H <sub>2</sub> O; s ace, acid
2117	Potassium chromate	K <sub>2</sub> CrO <sub>4</sub>	7789-00-6	194.191	yel orth cry	974		2.73	65.0 <sup>25</sup>	
2118	Potassium citrate monohydrate	K <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> · H <sub>2</sub> O	6100-05-6	324.410	col hyg cry	180 dec		1.98	172 <sup>20</sup>	vs H <sub>2</sub> O; sl EtOH
2119	Potassium cobalt(II) selenate hexahydrate	K <sub>2</sub> Co(SeO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	28041-86-3	531.14	red monocl cry			2.51		
2120	Potassium cyanate	KCNO	590-28-3	81.115	wh tetr cry	≈700 dec		2.05	75 <sup>25</sup>	sl EtOH
2121	Potassium cyanide	KCN	151-50-8	65.116	wh cub cry; hyg	622		1.55	69.9 <sup>20</sup>	sl EtOH
2122	Potassium cyanoaurite	KAu(CN) <sub>2</sub>	13967-50-5	288.099	col cry			3.45	14 <sup>20</sup>	s H <sub>2</sub> O; sl EtOH; i eth, ace
2123	Potassium dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7778-50-9	294.185	oran-red tricl cry	398	≈500 dec	2.68	15.1 <sup>25</sup>	
2124	Potassium dihydrogen arsenate	KH <sub>2</sub> AsO <sub>4</sub>	7784-41-0	180.034	col cry	288		2.87	19 <sup>6</sup>	i EtOH
2125	Potassium dihydrogen phosphate	KH <sub>2</sub> PO <sub>4</sub>	7778-77-0	136.085	wh tetr cry	253		2.34	25.0 <sup>25</sup>	sl EtOH
2126	Potassium dihydrogen phosphonate	KH <sub>2</sub> PO <sub>3</sub>	13977-65-6	120.086	col monocl hyg cry					
2127	Potassium dithionate	K <sub>2</sub> S <sub>2</sub> O <sub>6</sub>	13455-20-4	238.323	col hex cry	dec		2.27		sl H <sub>2</sub> O; i EtOH
2128	Potassium ferricyanide	K <sub>3</sub> Fe(CN) <sub>6</sub>	13746-66-2	329.244	red cry	dec		1.89	48.8 <sup>25</sup>	
2129	Potassium ferrocyanide trihydrate	K <sub>4</sub> Fe(CN) <sub>6</sub> · 3H <sub>2</sub> O	14459-95-1	422.388	yel monocl cry	60 dec		1.85	36.0 <sup>25</sup>	i EtOH, eth
2130	Potassium fluoride	KF	7789-23-3	58.096	wh cub cry	858	1502	2.48	102 <sup>25</sup>	
2131	Potassium fluoride dihydrate	KF · 2H <sub>2</sub> O	13455-21-5	94.127	monocl cry	41 dec		2.5	102 <sup>25</sup>	
2132	Potassium fluoroborate	KBF <sub>4</sub>	14075-53-7	125.903	col orth cry	530		2.505	0.55 <sup>25</sup>	sl EtOH
2133	Potassium fluorotantalate	K <sub>3</sub> TaF <sub>7</sub>	16924-00-8	392.134	col cry	730		5.24	0.5 <sup>9</sup>	
2134	Potassium formate	KCHO <sub>2</sub>	590-29-4	84.116	col hyg cry	167		1.91	331 <sup>18</sup>	
2135	Potassium hexachloroosmate(IV)	K <sub>2</sub> O <sub>8</sub> Cl <sub>6</sub>	16871-60-6	481.15	red cub cry					vs H <sub>2</sub> O; sl EtOH
2136	Potassium hexachloroplatinate	K <sub>2</sub> PtCl <sub>6</sub>	16921-30-5	485.999	yel-oran cub cry	250 dec		3.50	0.77 <sup>20</sup>	i EtOH
2137	Potassium hexacyanocobaltate	K <sub>3</sub> Co(CN) <sub>6</sub>	13963-58-1	332.332	yel monocl cry	dec		1.91		vs H <sub>2</sub> O; i EtOH
2138	Potassium hexafluoromanganate(IV)	K <sub>2</sub> MnF <sub>6</sub>	16962-31-5	247.125	yel hex cry					reac H <sub>2</sub> O
2139	Potassium hexafluorosilicate	K <sub>2</sub> SiF <sub>6</sub>	16871-90-2	220.273	wh cry	dec		2.27	0.084 <sup>20</sup>	i EtOH
2140	Potassium hexafluorozirconate(IV)	K <sub>2</sub> ZrF <sub>6</sub>	16923-95-8	283.411	col monocl cry			3.48	0.78 <sup>2</sup>	
2141	Potassium hydride	KH	7693-26-7	40.106	cub cry	619		1.43		reac H <sub>2</sub> O
2142	Potassium hydrogen arsenate	K <sub>2</sub> HAsO <sub>4</sub>	21093-83-4	218.125	col monocl prisms	300 dec			18.7 <sup>5</sup>	i EtOH
2143	Potassium hydrogen carbonate	KHCO <sub>3</sub>	298-14-6	100.115	col monocl cry	≈100 dec		2.17	36.2 <sup>25</sup>	i EtOH
2144	Potassium hydrogen fluoride	KHF <sub>2</sub>	7789-29-9	78.103	col tetr cry	238.8		2.37	39.2 <sup>20</sup>	i EtOH
2145	Potassium hydrogen iodate	KH(IO <sub>3</sub> ) <sub>2</sub>	13455-24-8	389.911	col cry	dec			1.3 <sup>15</sup>	sl H <sub>2</sub> O; i EtOH
2146	Potassium hydrogen oxalate hemihydrate	KHC <sub>2</sub> O <sub>4</sub> · 0.5H <sub>2</sub> O	127-95-7		wh cry	dec		2.09	2.5 <sup>20</sup>	sl EtOH
2147	Potassium hydrogen phosphate	K <sub>2</sub> HPO <sub>4</sub>	7758-11-4	174.176	wh hyg cry	dec			168 <sup>25</sup>	s EtOH
2148	Potassium hydrogen phosphite	K <sub>2</sub> HPO <sub>3</sub>	13492-26-7	158.177	wh hyg powder	dec			170 <sup>20</sup>	i EtOH
2149	Potassium hydrogen selenite	KHSeO <sub>3</sub>	7782-70-9	167.06	hyg orth cry	>100 dec				s H <sub>2</sub> O; sl EtOH
2150	Potassium hydrogen sulfate	KHSO <sub>4</sub>	7646-93-7	136.169	wh monocl cry; hyg	≈200		2.32	50.6 <sup>25</sup>	
2151	Potassium hydrogen sulfide	KHS	1310-61-8	72.171	wh hex cry; hyg	≈450		1.69		s H <sub>2</sub> O, EtOH
2152	Potassium hydrogen sulfide hemihydrate	KHS · 0.5H <sub>2</sub> O	1310-61-8*	81.179	wh-yel hyg cry	≈175		1.7		vs H <sub>2</sub> O, EtOH
2153	Potassium hydrogen sulfite	KHSO <sub>3</sub>	7773-03-7	120.169	wh cry powder	190 dec			49 <sup>20</sup>	i EtOH
2154	Potassium hydrogen tartrate	KHC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	868-14-4	188.177	wh cry			1.98	0.57 <sup>20</sup>	s acid, alk; i EtOH
2155	Potassium hydroxide	KOH	1310-58-3	56.105	wh rhomb cry; hyg	406	1327	2.044	121 <sup>25</sup>	s EtOH; s MeOH
2156	Potassium hypochlorite	KOCl	7778-66-7	90.550	exists only in aq soln					
2157	Potassium phosphinate	KH <sub>2</sub> PO <sub>2</sub>	7782-87-8	104.087	wh hyg cry	dec				vs H <sub>2</sub> O; s EtOH



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2158	Potassium iodate	KIO <sub>3</sub>	7758-05-6	214.001	wh monoc cry	560 dec		3.89	9.22 <sup>25</sup>	
2159	Potassium iodide	KI	7681-11-0	166.003	col cub cry	681	1323	3.12	148 <sup>25</sup>	sl EtOH
2160	Potassium iron(III) oxalate trihydrate	K <sub>3</sub> Fe(C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 3H <sub>2</sub> O		491.243	grn monoc cry	100	230 dec	2.133	4.7 <sup>0</sup>	i EtOH
2161	Potassium manganate	K <sub>2</sub> MnO <sub>4</sub>	10294-64-1	197.133	grn cry	190 dec				s H <sub>2</sub> O; reac HCl
2162	Potassium metaarsenate	KAsO <sub>3</sub>	19197-73-0	162.018	wh solid	660				
2163	Potassium metabisulfite	K <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	16731-55-8	222.324	wh powder	≈150 dec		2.3	49.5 <sup>25</sup>	reac acid; i EtOH
2164	Potassium metaborate	KBO <sub>3</sub>	13709-94-9	81.908	wh hex cry	947		≈2.3		
2165	Potassium molybdate	K <sub>2</sub> MoO <sub>4</sub>	13446-49-6	238.14	wh hyg cry	919		2.3	183 <sup>25</sup>	i EtOH
2166	Potassium niobate	KNbO <sub>3</sub>	12030-85-2	180.002	wh rhomb cry	≈1100		4.64		i H <sub>2</sub> O
2167	Potassium nitrate	KNO <sub>3</sub>	7757-79-1	101.103	col orth cry or powder	334	400 dec	2.105	38.3 <sup>25</sup>	i EtOH
2168	Potassium nitrite	KNO <sub>2</sub>	7758-09-0	85.104	wh hyg cry	438	537 exp	1.915	312 <sup>25</sup>	sl EtOH
2169	Potassium oxalate	K <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	583-52-8	166.216	wh pwd					sl H <sub>2</sub> O
2170	Potassium oxalate monohydrate	K <sub>2</sub> C <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	6487-48-5	184.231	col cry	160 dec		2.13	36.4 <sup>20</sup>	
2171	Potassium oxide	K <sub>2</sub> O	12136-45-7	94.196	gray cub cry	740		2.35		s H <sub>2</sub> O, EtOH, eth
2172	Potassium perbromate	KBrO <sub>4</sub>	22207-96-1	183.000	wh cry	275 dec			4.21 <sup>25</sup>	
2173	Potassium percarbonate monohydrate	K <sub>2</sub> C <sub>2</sub> O <sub>6</sub> · H <sub>2</sub> O	589-97-9	216.230	oran or blue pow				6.5 <sup>20</sup>	
2174	Potassium perchlorate	KClO <sub>4</sub>	7778-74-7	138.549	col orth cry; hyg	525		2.52	2.08 <sup>25</sup>	
2175	Potassium periodate	KIO <sub>4</sub>	7790-21-8	230.001	col tetr cry	582	exp	3.618	0.51 <sup>25</sup>	
2176	Potassium permanganate	KMnO <sub>4</sub>	7722-64-7	158.034	purp orth cry	dec		2.7	7.60 <sup>25</sup>	reac EtOH
2177	Potassium peroxide	K <sub>2</sub> O <sub>2</sub>	17014-71-0	110.196	yel amorp solid	490				reac H <sub>2</sub> O
2178	Potassium persulfate	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	7727-21-1	270.322	col cry	≈100 dec		2.48	4.7 <sup>20</sup>	
2179	Potassium phosphate	K <sub>3</sub> PO <sub>4</sub>	7778-53-2	212.266	wh orth cry; hyg	1340		2.564	106 <sup>25</sup>	i EtOH
2180	Potassium pyrophosphate	K <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	7320-34-5		wh cry	dec 1300				s H <sub>2</sub>
2181	Potassium pyrophosphate trihydrate	K <sub>4</sub> P <sub>2</sub> O <sub>7</sub> · 3H <sub>2</sub> O	7790-67-2	384.383	col hyg cry	dec 300		2.33		vs H <sub>2</sub> O; i EtOH
2182	Potassium pyrosulfate	K <sub>2</sub> S <sub>2</sub> O <sub>7</sub>	7790-62-7	254.323	col needles	≈325		2.28		s H <sub>2</sub> O
2183	Potassium selenate	K <sub>2</sub> SeO <sub>4</sub>	7790-59-2	221.16	wh powder			3.07	114 <sup>25</sup>	
2184	Potassium selenide	K <sub>2</sub> Se	1312-74-9	157.16	red cub cry; hyg	800		2.29		s H <sub>2</sub> O
2185	Potassium selenite	K <sub>2</sub> SeO <sub>3</sub>	10431-47-7	205.16	wh hyg cry	875 dec			217 <sup>25</sup>	sl EtOH
2186	Potassium silver cyanide	KAg(CN) <sub>2</sub>	506-61-6	199.000	wh cry					s H <sub>2</sub> O
2187	Potassium sodium tartrate tetrahydrate	KNaC <sub>4</sub> H <sub>4</sub> O <sub>6</sub> · 4H <sub>2</sub> O	6381-59-5	282.220	wh cry	≈70 dec	anh at 130	1.79		vs H <sub>2</sub> O; i EtOH
2188	Potassium stannate trihydrate	K <sub>2</sub> SnO <sub>3</sub> · 3H <sub>2</sub> O	12142-33-5*	298.951	col cry			3.20		vs H <sub>2</sub> O; i EtOH
2189	Potassium stearate	KC <sub>18</sub> H <sub>35</sub> O <sub>2</sub>	593-29-3	322.568	wh pow					sl cold H <sub>2</sub> O; s hot H <sub>2</sub> O, EtOH
2190	Potassium sulfate	K <sub>2</sub> SO <sub>4</sub>	7778-80-5	174.260	wh orth cry	1069		2.66	12.0 <sup>25</sup>	i EtOH
2191	Potassium sulfide	K <sub>2</sub> S	1312-73-8	110.262	red-yel cub cry; hyg	948		1.74		s H <sub>2</sub> O, EtOH; i eth
2192	Potassium sulfide pentahydrate	K <sub>2</sub> S · 5H <sub>2</sub> O	37248-34-3	200.338	col rhomb cry	60				vs H <sub>2</sub> O, EtOH; i eth
2193	Potassium sulfite	K <sub>2</sub> SO <sub>3</sub>	10117-38-1	158.260	col hex cry				106 <sup>25</sup>	sl EtOH
2194	Potassium sulfite dihydrate	K <sub>2</sub> SO <sub>3</sub> · 2H <sub>2</sub> O	7790-56-9	194.291	wh monoc cry	dec			107 <sup>20</sup>	sl EtOH; dec dil acid
2195	Potassium superoxide	KO <sub>2</sub>	12030-88-5	71.097	yel tetr cry; hyg	380		2.16		reac H <sub>2</sub> O
2196	Potassium tellurate(VI) trihydrate	K <sub>2</sub> TeO <sub>6</sub> · 3H <sub>2</sub> O	15571-91-2*	323.84	wh cry powder					s H <sub>2</sub> O
2197	Potassium tellurite	K <sub>2</sub> TeO <sub>3</sub>	7790-58-1	253.80	wh hyg cry	≈460 dec				vs H <sub>2</sub> O
2198	Potassium tetraborate pentahydrate	K <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 5H <sub>2</sub> O	1332-77-0	323.513	wh cry powder				16.5 <sup>30</sup>	sl EtOH
2199	Potassium tetrachloroaurate dihydrate	KAuCl <sub>4</sub> · 2H <sub>2</sub> O	13682-61-6	413.908	yel monoc cry					s H <sub>2</sub> O, EtOH, eth
2200	Potassium tetrachloroplatinate	K <sub>2</sub> PtCl <sub>4</sub>	10025-99-7	415.093	pink-red tetr cry	500 dec		3.38		s H <sub>2</sub> O; i EtOH
2201	Potassium tetracyanocadmiate	K <sub>2</sub> Cd(CN) <sub>4</sub>	14402-75-6	294.678	cub cry	≈450		1.85	25 <sup>20</sup>	sl EtOH
2202	Potassium tetracyanonickelate monohydrate	K <sub>2</sub> [Ni(CN) <sub>4</sub> ] · H <sub>2</sub> O	14220-17-8*	258.975	red-oran cry	dec 100				
2203	Potassium tetracyanoplatinate(II) trihydrate	K <sub>2</sub> Pt(CN) <sub>4</sub> · 3H <sub>2</sub> O	562-76-5*	431.397	col rhomb prisms					s H <sub>2</sub> O
2204	Potassium tetracyanozincate	K <sub>2</sub> Zn(CN) <sub>4</sub>	14244-62-3	247.676	cry pow					vs H <sub>2</sub> O
2205	Potassium tetraiodomercurate(II)	K <sub>2</sub> HgI <sub>4</sub>	7783-33-7	786.40	yel hyg cry			4.29		vs H <sub>2</sub> O; s EtOH, eth, ace
2206	Potassium thiocyanate	KSCN	333-20-0	97.181	col tetr cry; hyg	173	500 dec	1.88	238 <sup>25</sup>	s EtOH
2207	Potassium thiosulfate	K <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	10294-66-3	190.325	col hyg cry				165 <sup>25</sup>	i EtOH
2208	Potassium titanate	K <sub>2</sub> TiO <sub>3</sub>	12030-97-6	174.062	wh orth cry	1515		3.1		reac H <sub>2</sub> O
2209	Potassium triiodide monohydrate	KI <sub>3</sub> · H <sub>2</sub> O	7790-42-3	437.827	brn monoc cry; hyg	225 dec		3.5		s H <sub>2</sub> O; reac EtOH, eth
2210	Potassium triiodozincate	KZnI <sub>3</sub>	7790-43-4	485.221	hyg cry					vs H <sub>2</sub> O
2211	Potassium thiocarbonate	K <sub>2</sub> CS <sub>3</sub>	26750-66-3	186.403	yel-red hyg cry					vs H <sub>2</sub> O
2212	Potassium tungstate	K <sub>2</sub> WO <sub>4</sub>	7790-60-5	326.04	hyg cry	921		3.12		vs H <sub>2</sub> O; i EtOH
2213	Potassium uranate	K <sub>2</sub> U <sub>2</sub> O <sub>7</sub>	7790-63-8	666.251	oran cub cry			6.12		i H <sub>2</sub> O; s acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2214	Potassium uranyl nitrate	K(UO <sub>2</sub> )(NO <sub>3</sub> ) <sub>3</sub>	18078-40-5	495.140	grn-yel cry pow					vs H <sub>2</sub> O
2215	Potassium uranyl sulfate dihydrate	K <sub>2</sub> (UO <sub>2</sub> ) <sub>2</sub> (SO <sub>4</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	27709-53-1	576.381	grn-yel cry pow	dec 120		3.36		vs H <sub>2</sub> O
2216	Potassium zinc sulfate hexahydrate	K <sub>2</sub> Zn(SO <sub>4</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13932-17-7	443.823	cry					s H <sub>2</sub> O
2217	Potassium zirconium sulfate trihydrate	K <sub>2</sub> Zr(SO <sub>4</sub> ) <sub>3</sub> · 3H <sub>2</sub> O	53608-79-0	685.914	wh cry pow					sl H <sub>2</sub> O
2218	Praseodymium	Pr	7440-10-0	140.908	silv metal; hex	931	3520	6.77		
2219	Praseodymium boride	PrB <sub>6</sub>	12008-27-4	205.774	blk cub cry	2610		4.84		
2220	Praseodymium nitride	PrN	25764-09-4	154.915	cub cry			7.46		
2221	Praseodymium silicide	PrSi <sub>2</sub>	12066-83-0	197.079	tetr cry	1712		5.46		
2222	Praseodymium(II) iodide	PrI <sub>2</sub>	65530-47-4	394.717	bronze solid	758				
2223	Praseodymium(III) bromate	Pr(BrO <sub>3</sub> ) <sub>3</sub>	15162-93-3	524.615	grn cry					vs H <sub>2</sub> O
2224	Praseodymium(III) bromide	PrBr <sub>3</sub>	13536-53-3	380.620	grn hex cry; hyg	693		5.28		s H <sub>2</sub> O
2225	Praseodymium(III) carbonate octahydrate	Pr <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	14948-62-0	605.964	grn silky plates	dec 420 (anh)				i H <sub>2</sub> O; s acid
2226	Praseodymium(III) chloride	PrCl <sub>3</sub>	10361-79-2	247.267	grn hex needles; hyg	786		4.0	96.1 <sup>25</sup>	s EtOH
2227	Praseodymium(III) chloride heptahydrate	PrCl <sub>3</sub> · 7H <sub>2</sub> O	10025-90-8	373.374	grn cry	110 dec			96.1 <sup>25</sup>	s EtOH
2228	Praseodymium(III) fluoride	PrF <sub>3</sub>	13709-46-1	197.903	grn hex cry	1399		6.3		
2229	Praseodymium(III) hydroxide	Pr(OH) <sub>3</sub>	16469-16-2	191.930	grn solid	dec 220		3.7		i H <sub>2</sub> O
2230	Praseodymium(III) iodide	PrI <sub>3</sub>	13813-23-5	521.621	orth hyg cry	738		≈5.8		s H <sub>2</sub> O
2231	Praseodymium(III) nitrate	Pr(NO <sub>3</sub> ) <sub>3</sub>	10361-80-5	326.923	pale grn hyg cry				165 <sup>25</sup>	s EtOH
2232	Praseodymium(III) nitrate hexahydrate	Pr(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	15878-77-0	435.014	grn needles				165 <sup>25</sup>	s EtOH, ace
2233	Praseodymium(III) oxide	Pr <sub>2</sub> O <sub>3</sub>	12036-32-7	329.813	wh hex cry	2183	3760	6.9		
2234	Praseodymium(III) perchlorate hexahydrate	Pr(ClO <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	13498-07-2*	547.351	hyg grn cry	dec 200				s H <sub>2</sub> O, EtOH
2235	Praseodymium(III) sulfate octahydrate	Pr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13510-41-3	714.125	grn monocl cry			2.83	17 <sup>20</sup>	s H <sub>2</sub> O
2236	Praseodymium(III) sulfide	Pr <sub>2</sub> S <sub>3</sub>	12038-13-0	378.010	cub cry	1765		5.1		
2237	Praseodymium(III) telluride	Pr <sub>2</sub> Te <sub>3</sub>	12038-12-9	664.62	cub cry	1500		≈7.0		
2238	Praseodymium(IV) fluoride	PrF <sub>4</sub>	15192-24-2	216.902	yel-wh solid	dec 90				
2239	Promethium	Pm	7440-12-2	145	silv metal; hex	1042	3000	7.26		
2240	Promethium(III) bromide	PmBr <sub>3</sub>	14325-78-1	385	red cry	625				s H <sub>2</sub> O
2241	Promethium(III) chloride	PmCl <sub>3</sub>	13779-10-7	251	pale blue hyg cry	655				s H <sub>2</sub> O
2242	Promethium(III) fluoride	PmF <sub>3</sub>	13709-45-0	202	pink solid	1338				s H <sub>2</sub> O
2243	Promethium(III) iodide	PmI <sub>3</sub>	13818-73-0	526	red solid	695				
2244	Protactinium	Pa	7440-13-3	231.036	shiny metal; tetr or cub	1572		15.4		
2245	Protactinium(V) chloride	PaCl <sub>5</sub>	13760-41-3	408.301	yel monocl cry	306		3.74		
2246	Radium	Ra	7440-14-4	226	wh metal; cub	696		5		
2247	Radium bromide	RaBr <sub>2</sub>	10031-23-9	386	wh orth cry	728		5.79	70.6 <sup>20</sup>	s EtOH
2248	Radium carbonate	RaCO <sub>3</sub>	7116-98-5	286	wh orth cry					i H <sub>2</sub> O
2249	Radium chloride	RaCl <sub>2</sub>	10025-66-8	297	wh orth cry	1000		4.9	24.5 <sup>20</sup>	s EtOH
2250	Radium fluoride	RaF <sub>2</sub>	20610-49-5	264	wh cub cry			6.7		
2251	Radium nitrate	Ra(NO <sub>3</sub> ) <sub>2</sub>	10213-12-4	350	cry				13.9	
2252	Radium sulfate	RaSO <sub>4</sub>	7446-16-4	322	wh cry					i H <sub>2</sub> O, acid
2253	Radon	Rn	10043-92-2	222	col gas	-71	-61.7	9.074 g/L		sl H <sub>2</sub> O
2254	Rhenium	Re	7440-15-5	186.207	silv-gray metal	3185	5596	20.8		i HCl
2255	Perrhenic acid	HReO <sub>4</sub>	13768-11-1	251.213	exists only in soln					vs H <sub>2</sub> O, os
2256	Rhenium carbonyl	Re <sub>2</sub> (CO) <sub>10</sub>	14285-68-8	652.515	yel-wh cry	170 dec		2.87		s os
2257	Rhenium pentacarbonyl bromide	Re(CO) <sub>5</sub> Br	14220-21-4	406.162	wh cry	90				
2258	Rhenium pentacarbonyl chloride	Re(CO) <sub>5</sub> Cl	14099-01-5	361.711	wh cry		subl 140			
2259	Rhenium(III) bromide	ReBr <sub>3</sub>	13569-49-8	425.919	red-brn monocl cry		500 subl	6.10		s ace, MeOH, EtOH
2260	Rhenium(III) chloride	ReCl <sub>3</sub>	13569-63-6	292.566	red-blk hyg cry	500 dec		4.81		s H <sub>2</sub> O
2261	Rhenium(III) iodide	ReI <sub>3</sub>	15622-42-1	566.920	blk solid	dec				
2262	Rhenium(IV) chloride	ReCl <sub>4</sub>	13569-71-6	328.019	purp-blk cry; hyg	300 dec		4.9		
2263	Rhenium(IV) fluoride	ReF <sub>4</sub>	15192-42-4	262.201	blue tetr cry		>300 subl	7.49		
2264	Rhenium(IV) oxide	ReO <sub>2</sub>	12036-09-8	218.206	gray orth cry	900 dec		11.4		
2265	Rhenium(IV) selenide	ReSe <sub>2</sub>	12038-64-1	344.13	tricl cry					
2266	Rhenium(IV) silicide	ReSi <sub>2</sub>	12038-66-3	242.378	refrac solid	2000				
2267	Rhenium(IV) sulfide	ReS <sub>2</sub>	12038-63-0	250.337	tricl cry			7.6		
2268	Rhenium(IV) telluride	ReTe <sub>2</sub>	12067-00-4	441.41	orth cry			8.50		
2269	Rhenium(V) bromide	ReBr <sub>5</sub>	30937-53-2	585.727	brn solid	110 dec				
2270	Rhenium(V) chloride	ReCl <sub>5</sub>	39368-69-9	363.472	brn-blk solid	220		4.9		reac H <sub>2</sub> O
2271	Rhenium(V) fluoride	ReF <sub>5</sub>	30937-52-1	281.199	yel-grn solid	48	221.3			
2272	Rhenium(V) oxide	Re <sub>2</sub> O <sub>5</sub>	12165-05-8	452.411	blue-blk tetr cry			≈7		

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2273	Rhenium(VI) chloride	ReCl <sub>6</sub>	31234-26-1	398.925	red-grn solid	29				
2274	Rhenium(VI) dioxydifluoride	ReO <sub>2</sub> F <sub>2</sub>	81155-18-2	256.203	col cry	156				
2275	Rhenium(VI) fluoride	ReF <sub>6</sub>	10049-17-9	300.197	yel liq or cub cry	18.5	33.8	4.06(cry)		s HNO <sub>3</sub>
2276	Rhenium(VI) oxide	ReO <sub>3</sub>	1314-28-9	234.205	red cub cry	400 dec		6.9		i H <sub>2</sub> O, acid, alk
2277	Rhenium(VI) oxytetrafluoride	ReOCl <sub>4</sub>	13814-76-1	344.018	brn cry	29.3	223			reac H <sub>2</sub> O
2278	Rhenium(VI) oxytetrafluoride	ReOF <sub>4</sub>	17026-29-8	278.200	blue solid	108	171.7			
2279	Rhenium(VII) fluoride	ReF <sub>7</sub>	17029-21-9	319.196	yel cub cry	48.3	73.7	4.32		
2280	Rhenium(VII) oxide	Re <sub>2</sub> O <sub>7</sub>	1314-68-7	484.410	yel hyg cry	327	360	6.10		s H <sub>2</sub> O, EtOH, eth, diox, py
2281	Rhenium(VII) trioxchloride	ReO <sub>3</sub> Cl	7791-09-5	269.658	col liq	4.5	128	3.87		reac H <sub>2</sub> O
2282	Rhenium(VII) trioxyfluoride	ReO <sub>3</sub> F	42246-24-2	253.203	yel solid	147	164			
2283	Rhenium(VII) dioxytrifluoride	ReO <sub>2</sub> F <sub>3</sub>	57246-89-6	275.201	yel solid	90	185.4			reac H <sub>2</sub> O
2284	Rhenium(VII) oxypentafluoride	ReOF <sub>5</sub>	23377-53-9	297.198	cream solid	43.8	73.0			
2285	Rhenium(VII) sulfide	Re <sub>2</sub> S <sub>7</sub>	12038-67-4	596.869	brn-blk tetr cry			4.87		i H <sub>2</sub> O
2286	Rhodium	Rh	7440-16-6	102.906	silv-wh metal; cub	1964	3695	12.4		i acid, sl aqua regia
2287	Rhodium carbonyl	Rh <sub>4</sub> (CO) <sub>16</sub>	28407-51-4	1065.594	red-brn cry	220 dec				
2288	Rhodium carbonyl chloride	[Rh(CO) <sub>2</sub> Cl] <sub>2</sub>	14523-22-9	388.758	red-oran cry	124				s os
2289	Rhodium dodecacarbonyl	Rh <sub>4</sub> (CO) <sub>12</sub>	19584-30-6	747.743	red hyg cry	150 dec		2.52		reac H <sub>2</sub> O
2290	Rhodium(III) bromide	RhBr <sub>3</sub>	15608-29-4	342.618	dark brn plates	800 dec		5.56		s H <sub>2</sub> O; i acid, os
2291	Rhodium(III) chloride	RhCl <sub>3</sub>	10049-07-7	209.265	red mono cry		717	5.38		i H <sub>2</sub> O; s alk
2292	Rhodium(III) fluoride	RhF <sub>3</sub>	60804-25-3	159.901	red hex cry			5.4		
2293	Rhodium(III) iodide	RhI <sub>3</sub>	15492-38-3	483.619	blk mono cry; hyg			6.4		
2294	Rhodium(III) nitrate	Rh(NO <sub>3</sub> ) <sub>3</sub>	10139-58-9	288.921	hyg brn solid	600 dec				i H <sub>2</sub> O
2295	Rhodium(III) nitrate dihydrate	Rh(NO <sub>3</sub> ) <sub>3</sub> · 2H <sub>2</sub> O	13465-43-5	324.951	blk solid	dec				i H <sub>2</sub> O; s aqua regia
2296	Rhodium(III) oxide	Rh <sub>2</sub> O <sub>3</sub>	12036-35-0	253.809	gray hex cry	1100 dec		8.2		
2297	Rhodium(III) oxide pentahydrate	Rh <sub>2</sub> O <sub>3</sub> · 5H <sub>2</sub> O	39373-27-8	309.010	yel pow	dec				sl H <sub>2</sub> O; s acid
2298	Rhodium(III) sulfate	Rh <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10489-46-0	493.999	red-yel solid	>500 dec				
2299	Rhodium(IV) oxide	RhO <sub>2</sub>	12137-27-8	134.905	blk tetr cry			7.2		
2300	Rhodium(IV) oxide dihydrate	RhO <sub>2</sub> · 2H <sub>2</sub> O	12137-27-8	170.936	grn solid	dec		8.20		i H <sub>2</sub> O, sol HCl, alk
2301	Rhodium(VI) fluoride	RhF <sub>6</sub>	13693-07-7	216.896	blk cub cry	≈70		3.1		
2302	Rubidium	Rb	7440-17-7	85.468	soft silv metal; cub	39.30	688	1.53		reac H <sub>2</sub> O
2303	Rubidium acetate	RbC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	563-67-7	144.512	wh hyg cry	246				vs H <sub>2</sub> O
2304	Rubidium aluminum sulfate	RbAl(SO <sub>4</sub> ) <sub>2</sub>	13530-57-9	304.575	hex cry			≈3.1	1.60 <sup>20</sup>	i EtOH
2305	Rubidium aluminum sulfate dodecahydrate	RbAl(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	7784-29-4	520.759	col cub cry	≈100 dec		≈1.9		s H <sub>2</sub> O; i EtOH
2306	Rubidium azide	RbN <sub>3</sub>	22756-36-1	127.488	tetr cry; exp	317		2.79	107 <sup>16</sup>	
2307	Rubidium bromate	RbBrO <sub>3</sub>	13446-70-3	213.370	cub cry	430		3.68	2.95 <sup>25</sup>	
2308	Rubidium bromide	RbBr	7789-39-1	165.372	wh cub cry; hyg	692	1340	3.35	116 <sup>25</sup>	
2309	Rubidium carbonate	Rb <sub>2</sub> CO <sub>3</sub>	584-09-8	230.945	col mono cry; hyg	837			223 <sup>20</sup>	
2310	Rubidium chlorate	RbClO <sub>3</sub>	13446-71-4	168.919	col cry	324	dec 480	3.19	6.63 <sup>25</sup>	sl H <sub>2</sub> O
2311	Rubidium chloride	RbCl	7791-11-9	120.921	wh cub cry; hyg	724	1390	2.76	93.9 <sup>25</sup>	sl EtOH
2312	Rubidium chromate	Rb <sub>2</sub> CrO <sub>4</sub>	13446-72-5	286.930	yel rhom cry			3.518	76.2 <sup>25</sup>	
2313	Rubidium dichromate	Rb <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	13446-73-6	386.924	red tricl or yel mono cry			3.1		s H <sub>2</sub> O
2314	Rubidium cyanide	RbCN	19073-56-4	111.486	wh cub cry			2.3		s H <sub>2</sub> O; i EtOH, eth
2315	Rubidium fluoride	RbF	13446-74-7	104.466	wh cub cry; hyg	795	1410	3.2	300 <sup>20</sup>	i EtOH
2316	Rubidium fluoroborate	RbBF <sub>4</sub>	18909-68-7	172.273	orth cry	612 dec		2.82		sl H <sub>2</sub> O
2317	Rubidium formate	RbCHO <sub>2</sub>	3495-35-0	130.486	wh hyg cry	dec				
2318	Rubidium hexafluorogermanate	Rb <sub>2</sub> GeF <sub>6</sub>	16962-48-4	357.57	wh cry	696				s H <sub>2</sub> O
2319	Rubidium hydride	RbH	13446-75-8	86.476	wh cub cry; flam	≈170 dec		2.60		reac H <sub>2</sub> O
2320	Rubidium hydrogen carbonate	RbHCO <sub>3</sub>	19088-74-5	146.485	wh rhomb cry	175 dec			116 <sup>20</sup>	
2321	Rubidium hydrogen fluoride	RbHF <sub>2</sub>	12280-64-7	124.473	tetr cry	188		3.3		
2322	Rubidium hydrogen sulfate	RbHSO <sub>4</sub>	15587-72-1	182.539	col mono cry	208		2.9		s H <sub>2</sub> O
2323	Rubidium hydroxide	RbOH	1310-82-3	102.475	gray-wh orth cry; hyg	385		3.2	173 <sup>30</sup>	s EtOH
2324	Rubidium iodate	RbIO <sub>3</sub>	13446-76-9	260.370	mono cry or cub cry	dec		4.33	2.44 <sup>25</sup>	vs HCl
2325	Rubidium iodide	RbI	7790-29-6	212.372	wh cub cry	656	1300	3.55	165 <sup>25</sup>	s EtOH
2326	Rubidium molybdate	Rb <sub>2</sub> MoO <sub>4</sub>	13718-22-4	330.87	wh cry	958				s H <sub>2</sub> O
2327	Rubidium nitrate	RbNO <sub>3</sub>	13126-12-0	147.473	wh hex cry; hyg	310		3.11	65.0 <sup>25</sup>	vs H <sub>2</sub> O
2328	Rubidium nitrite	RbNO <sub>2</sub>	13825-25-7	131.474	wh cry	422				vs H <sub>2</sub> O
2329	Rubidium oxide	Rb <sub>2</sub> O	18088-11-4	186.935	yel-brn cub cry; hyg	400 dec		4.0		reac H <sub>2</sub> O
2330	Rubidium perchlorate	RbClO <sub>4</sub>	13510-42-4	184.919	wh hyg cry	597	dec 900	2.9	1.5 <sup>25</sup>	
2331	Rubidium permanganate	RbMnO <sub>4</sub>	13465-49-1	204.404	dark purp cry	300 dec		3.24		sl H <sub>2</sub> O
2332	Rubidium peroxide	Rb <sub>2</sub> O <sub>2</sub>	23611-30-5	202.935	wh orth cry	570		3.8		reac H <sub>2</sub> O
2333	Rubidium selenide	Rb <sub>2</sub> Se	31052-43-4	249.90	wh cub cry	733		3.22		reac H <sub>2</sub> O





No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2453	Diiodosilane	SiH <sub>2</sub> I <sub>2</sub>	13760-02-6	283.911	col liq	-1	150			
2454	Triiodosilane	SiH <sub>3</sub> I <sub>3</sub>	13465-72-0	409.807	liq	8	220 dec			
2455	Tetraiodosilane	SiI <sub>4</sub>	13465-84-4	535.704	wh powder	120.5	287.35	4.1		
2456	Hexaiododisilane	Si <sub>2</sub> I <sub>6</sub>	13510-43-5	817.598	pale yel cry	250				
2457	Disiloxane	(SiH <sub>3</sub> ) <sub>2</sub> O	13597-73-4	78.218	gas	-144	-15.2	3.197 g/L		
2458	Hexachlorodisiloxane	(SiCl <sub>3</sub> ) <sub>2</sub> O	14986-21-1	284.888	liq	-28	137			
2459	Methylsilane	SiH <sub>3</sub> CH <sub>3</sub>	992-94-9	46.145	col gas	-156.5	-57.5			
2460	Metasilicic acid	H <sub>2</sub> SiO <sub>3</sub>	7699-41-4	78.100	wh amorp powder					i H <sub>2</sub> O; s HF
2461	Orthosilicic acid	H <sub>4</sub> SiO <sub>4</sub>	10193-36-9	96.116	exists only in soln					
2462	Fluorosilicic acid	H <sub>2</sub> SiF <sub>6</sub>	16961-83-4	144.092	stab only in aq soln					s H <sub>2</sub> O
2463	Silicon carbide (hexagonal)	SiC	409-21-2	40.097	hard grn-black hex cry	2830		3.16		i H <sub>2</sub> O, EtOH
2464	Silicon nitride (Si <sub>3</sub> N <sub>4</sub> )	Si <sub>3</sub> N <sub>4</sub>	12033-89-5	140.284	gray refrac solid; hex	1900		3.17		
2465	Silicon monoxide	SiO	10097-28-6	44.085	blk cub cry, stable >1200			2.18		
2466	Silicon dioxide (α-quartz)	SiO <sub>2</sub>	14808-60-7	60.085	col hex cry	trans to beta quartz 573	2950	2.648		i H <sub>2</sub> O, acid; s HF
2467	Silicon dioxide (β-quartz)	SiO <sub>2</sub>	14808-60-7	60.085	col hex cry	trans to tridymite 867	2950	2.533 <sup>600</sup>		i H <sub>2</sub> O, acid; s HF
2468	Silicon dioxide (tridymite)	SiO <sub>2</sub>	15468-32-3	60.085	col hex cry	trans cristobalite 1470	2950	2.265		i H <sub>2</sub> O, acid; s HF
2469	Silicon dioxide (cristobalite)	SiO <sub>2</sub>	14464-46-1	60.085	col hex cry	1722	2950	2.334		i H <sub>2</sub> O, acid; s HF
2470	Silicon dioxide (vitreous)	SiO <sub>2</sub>	60676-86-0	60.085	col amorp solid	1713	2950	2.196		i H <sub>2</sub> O, acid; s HF
2471	Silicon monosulfide	SiS	12504-41-5	60.151	yel-red hyg powder	1090	940	1.85		reac H <sub>2</sub> O
2472	Silicon disulfide	SiS <sub>2</sub>	13759-10-9	92.216	wh rhomb cry	1090	subl	2.04		reac H <sub>2</sub> O, EtOH; i bz
2473	Silicon tetraacetate	Si(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>4</sub>	562-90-3	264.262	wh hyg cry	110				reac H <sub>2</sub> O; s ace, bz
2474	Silicon tetraboride	SiB <sub>4</sub>	12007-81-7	71.330	gray refrac solid	1870 dec		2.4		
2475	Silicotungstic acid	H <sub>4</sub> SiO <sub>4</sub> · (W <sub>3</sub> O <sub>9</sub> ) <sub>4</sub>	12520-88-6	2878.17	hyg yel cry					vs H <sub>2</sub> O, EtOH
2476	Silver	Ag	7440-22-4	107.868	silv metal; cub	961.78	2162	10.5		
2477	Silver azide	AgN <sub>3</sub>	13863-88-2	149.888	orth cry; exp	exp ≈250		4.9	0.00081 <sup>20</sup>	
2478	Silver subfluoride	Ag <sub>2</sub> F	1302-01-8	234.734	yel hex cry	100 dec		8.6		reac H <sub>2</sub> O
2479	Silver(I) acetate	AgC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	563-63-3	166.912	wh needles or powder	dec		3.26	1.04 <sup>20</sup>	
2480	Silver(I) acetylide	Ag <sub>2</sub> C <sub>2</sub>	7659-31-6	239.757	wh powder; exp					
2481	Silver(I) acetylide (AgC <sub>2</sub> H)	AgC <sub>2</sub> H	13092-75-6	132.897	wh powder; exp					
2482	Silver(I) arsenate	Ag <sub>3</sub> AsO <sub>4</sub>	13510-44-6	462.524	red cub cry	dec		6.657	0.00085	s NH <sub>4</sub> OH
2483	Silver(I) benzoate	Ag(C <sub>6</sub> H <sub>5</sub> CO <sub>2</sub> )	532-31-0	228.982	powder				30 <sup>20</sup>	
2484	Silver(I) bromate	AgBrO <sub>3</sub>	7783-89-3	235.770	wh tetr cry	360 dec		5.21	0.193 <sup>25</sup>	
2485	Silver(I) bromide	AgBr	7785-23-1	187.772	yel cub cry	430	1502	6.47	0.000014 <sup>25</sup>	i H <sub>2</sub> O, acid, EtOH
2486	Silver(I) carbonate	Ag <sub>2</sub> CO <sub>3</sub>	534-16-7	275.745	yel mono cry	218		6.077	0.0036 <sup>20</sup>	s acid
2487	Silver(I) chlorate	AgClO <sub>3</sub>	7783-92-8	191.319	wh tetr cry	230	270 dec	4.430	17.6 <sup>25</sup>	sl EtOH
2488	Silver(I) chloride	AgCl	7783-90-6	143.321	wh cub cry	455	1547	5.56	0.00019 <sup>25</sup>	
2489	Silver(I) chlorite	AgClO <sub>2</sub>	7783-91-7	175.320	yel cry	105 exp			0.55 <sup>25</sup>	
2490	Silver(I) chromate	Ag <sub>2</sub> CrO <sub>4</sub>	7784-01-2	331.730	brn-red mono cry			5.625	0.000014 <sup>9</sup>	
2491	Silver(I) citrate	Ag <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub>	126-45-4	512.705	wh cry powder					i H <sub>2</sub> O; s HNO <sub>3</sub>
2492	Silver(I) cyanide	AgCN	506-64-9	133.886	wh-gray hex cry	320 dec		3.95	0.0000011	i EtOH, dil acid
2493	Silver(I) dichromate	Ag <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	7784-02-3	431.724	red cry			4.770		sl H <sub>2</sub> O
2494	Silver(I) diethyldithiocarbamate	Ag(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> NCS <sub>2</sub>	1470-61-7	256.138	powder	173				s py
2495	Silver(I) fluoride	AgF	7775-41-9	126.866	yel-brn cub cry; hyg	435	1159	5.852	172 <sup>20</sup>	
2496	Silver(I) hexafluoroantimonate	AgSbF <sub>6</sub>	26042-64-8	343.618	powder					
2497	Silver(I) hexafluoroarsenate	AgAsF <sub>6</sub>	12005-82-2	296.780	powder					
2498	Silver(I) hexafluorophosphate	AgPF <sub>6</sub>	26042-63-7	252.832	powder	102 dec				
2499	Silver(I) hydrogen fluoride	AgHF <sub>2</sub>	12249-52-4	146.873	hyg cry	dec				
2500	Silver(I) iodate	AgIO <sub>3</sub>	7783-97-3	282.770	wh orth cry	>200		5.53	0.053 <sup>25</sup>	
2501	Silver(I) iodide	AgI	7783-96-2	234.772	yel powder; hex	558	1506	5.68	0.000003	i acid
2502	Silver(I) lactate monohydrate	AgC <sub>3</sub> H <sub>5</sub> O <sub>3</sub> · H <sub>2</sub> O	128-00-7	214.954	gray cry powder					sl H <sub>2</sub> O, EtOH
2503	Silver(I) metaphosphate	AgPO <sub>3</sub>	13465-96-8	186.840	grn glass	490		6.37		i H <sub>2</sub> O; s HNO <sub>3</sub> , NH <sub>4</sub> OH
2504	Silver(I) molybdate	Ag <sub>2</sub> MoO <sub>4</sub>	13765-74-7	375.67	yel cub cry	483		6.18		sl H <sub>2</sub> O
2505	Silver(I) nitrate	AgNO <sub>3</sub>	7761-88-8	169.873	col rhomb cry	210	440 dec	4.35	234 <sup>25</sup>	sl EtOH, ace
2506	Silver(I) nitrite	AgNO <sub>2</sub>	7783-99-5	153.874	yel needles	140 dec		4.453	0.415 <sup>25</sup>	i EtOH; reac acid
2507	Silver(I) oxalate	Ag <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	533-51-7	303.755	wh cry powder	exp 140		5.03	0.0043 <sup>20</sup>	

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2508	Silver(I) oxide	Ag <sub>2</sub> O	20667-12-3	231.735	brn-blk cub cry	≈200 dec		7.2	0.0025	i EtOH; s acid, alk
2509	Silver(I) perchlorate	AgClO <sub>4</sub>	7783-93-9	207.319	col cub cry; hyg	486 dec		2.806	558 <sup>25</sup>	s bz, py, os
2510	Silver(I) perchlorate monohydrate	AgClO <sub>4</sub> · H <sub>2</sub> O	14242-05-8	225.334	hyg wh cry	43 dec			558 <sup>25</sup>	
2511	Silver(I) permanganate	AgMnO <sub>4</sub>	7783-98-4	226.804	viol monocl cry	dec		4.49	0.91 <sup>18</sup>	reac EtOH
2512	Silver(I) phosphate	Ag <sub>3</sub> PO <sub>4</sub>	7784-09-0	418.576	yel powder	849		6.37	0.0064	sl dil acid
2513	Silver(I) picrate monohydrate	AgC <sub>6</sub> H <sub>2</sub> N <sub>3</sub> O <sub>7</sub> · H <sub>2</sub> O	146-84-9	353.979	yel cry					sl H <sub>2</sub> O, EtOH; i chl, eth
2514	Silver(I) selenate	Ag <sub>2</sub> SeO <sub>4</sub>	7784-07-8	358.69	orth cry			5.72	0.118 <sup>20</sup>	
2515	Silver(I) selenide	Ag <sub>2</sub> Se	1302-09-6	294.70	gray hex needles	880		8.216		i H <sub>2</sub> O
2516	Silver(I) selenite	Ag <sub>2</sub> SeO <sub>3</sub>	7784-05-6	342.69	needles	530	>550 dec	5.930		sl H <sub>2</sub> O; s acid
2517	Silver(I) sulfate	Ag <sub>2</sub> SO <sub>4</sub>	10294-26-5	311.799	col cry or powder	660		5.45	0.84 <sup>25</sup>	
2518	Silver(I) sulfide	Ag <sub>2</sub> S	21548-73-2	247.801	gray-blk orth powder	825 (high press.)		7.23		i H <sub>2</sub> O; s acid
2519	Silver(I) sulfite	Ag <sub>2</sub> SO <sub>3</sub>	13465-98-0	295.799	wh cry	100 dec			0.00046 <sup>20</sup>	s acid, NH <sub>4</sub> OH
2520	Silver(I) telluride	Ag <sub>2</sub> Te	12002-99-2	343.34	blk orth cry	955		8.4		
2521	Silver(I) tetraiodomercurate(II)	Ag <sub>2</sub> HgI <sub>4</sub>	7784-03-4	923.94	yel tetr cry	trans to red cub ≈40		6.1		i H <sub>2</sub> O, dil acid
2522	Silver(I) thiocyanate	AgSCN	1701-93-5	165.951	wh powder	dec				i H <sub>2</sub> O
2523	Silver(I) thiosulfate	Ag <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	23149-52-2	327.864	wh cry	dec				sl H <sub>2</sub> O; s NH <sub>4</sub> OH
2524	Silver(II) oxide	AgO	1301-96-8	123.867	gray powder; monocl or cub	>100 dec		7.5	0.0027 <sup>25</sup>	s alk; reac acid
2525	Silver(II) tungstate	Ag <sub>2</sub> WO <sub>4</sub>	13465-93-5	463.57	yel cry	620			0.015	s HNO <sub>3</sub> , NH <sub>4</sub> OH
2526	Silver(II) fluoride	AgF <sub>2</sub>	7783-95-1	145.865	wh or gray hyg cry	690		4.58		reac H <sub>2</sub> O
2527	Silver(II) oxide (Ag <sub>2</sub> O <sub>2</sub> )	Ag <sub>2</sub> O <sub>2</sub>	25455-73-6	247.735	gray-blk cub cry	>100		7.44		i H <sub>2</sub> O; s acid, NH <sub>4</sub> OH
2528	Sodium	Na	7440-23-5	22.990	soft silv met; cub	97.794	882.940	0.97		reac H <sub>2</sub> O
2529	Sodium acetate	NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	127-09-3	82.034	col cry	328.2		1.528	50.4 <sup>25</sup>	
2530	Sodium acetate trihydrate	NaC <sub>2</sub> H <sub>3</sub> O <sub>2</sub> · 3H <sub>2</sub> O	6131-90-4	136.079	col cry	58 dec		1.45	50.4 <sup>25</sup>	sl EtOH
2531	Sodium aluminate	NaAlO <sub>2</sub>	1302-42-7	81.971	wh orth cry; hyg	1650		4.63		vs H <sub>2</sub> O; i EtOH
2532	Sodium aluminum hydride	NaAlH <sub>4</sub>	13770-96-2	54.004	wh hyg solid	174 dec		1.24		i eth; s thf
2533	Sodium aluminum sulfate dodecahydrate	NaAl(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	10102-71-3	458.281	col cry	≈60		1.61	39.7 <sup>20</sup>	i EtOH
2534	Sodium amide	NaNH <sub>2</sub>	7782-92-5	39.013	wh-grn orth cry	210	500 dec	1.39		reac H <sub>2</sub> O
2535	Sodium ammonium phosphate tetrahydrate	NaNH <sub>4</sub> HPO <sub>4</sub> · 4H <sub>2</sub> O	13011-54-6	209.069	monocl cry	≈80 dec		1.54		s H <sub>2</sub> O; i EtOH
2536	Sodium arsenate dodecahydrate	Na <sub>3</sub> AsO <sub>4</sub> · 12H <sub>2</sub> O	7778-43-0	424.072	col monocl prism	86 dec				s H <sub>2</sub> O; sl EtOH; i eth
2537	Sodium arsenite	NaAsO <sub>2</sub>	7784-46-5	129.911	wh-gray hyg powder			1.87		vs H <sub>2</sub> O; i EtOH
2538	Sodium azide	NaN <sub>3</sub>	26628-22-8	65.010	col hex cry	300 dec		1.846	40.8 <sup>20</sup>	sl EtOH; i eth
2539	Sodium borohydride	NaBH <sub>4</sub>	16940-66-2	37.833	wh cub cry; hyg	≈400 dec		1.07	55 <sup>20</sup>	reac EtOH
2540	Sodium bromate	NaBrO <sub>3</sub>	7789-38-0	150.892	col cub cry	381		3.34	39.4 <sup>25</sup>	i EtOH
2541	Sodium bromide	NaBr	7647-15-6	102.894	wh cub cry	747	1390	3.200	94.6 <sup>25</sup>	s EtOH
2542	Sodium bromide dihydrate	NaBr · 2H <sub>2</sub> O	13466-08-5	138.925	wh cry	36 dec		2.18	94.6 <sup>25</sup>	sl EtOH
2543	Sodium carbonate	Na <sub>2</sub> CO <sub>3</sub>	497-19-8	105.989	wh hyg powder	856		2.54	30.7 <sup>25</sup>	i EtOH
2544	Sodium carbonate monohydrate	Na <sub>2</sub> CO <sub>3</sub> · H <sub>2</sub> O	5968-11-6	124.005	col orth cry	100 dec		2.25	30.7 <sup>25</sup>	i EtOH
2545	Sodium carbonate decahydrate	Na <sub>2</sub> CO <sub>3</sub> · 10H <sub>2</sub> O	6132-02-1	286.142	col cry	34 dec		1.46	30.7 <sup>25</sup>	i EtOH
2546	Sodium chlorate	NaClO <sub>3</sub>	7775-09-9	106.441	col cub cry	248	dec 630	2.5	100 <sup>25</sup>	sl EtOH
2547	Sodium chloride	NaCl	7647-14-5	58.443	col cub cry	800.7	1465	2.17	36.0 <sup>25</sup>	sl EtOH
2548	Sodium chlorite	NaClO <sub>2</sub>	7758-19-2	90.442	wh hyg cry	≈180 dec			64 <sup>17</sup>	
2549	Sodium chromate	Na <sub>2</sub> CrO <sub>4</sub>	7775-11-3	161.974	yel orth cry	794		2.72	87.6 <sup>25</sup>	sl EtOH
2550	Sodium chromate tetrahydrate	Na <sub>2</sub> CrO <sub>4</sub> · 4H <sub>2</sub> O	10034-82-9	234.035	yel hyg cry	dec			87.6 <sup>25</sup>	sl EtOH
2551	Sodium citrate dihydrate	Na <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> · 2H <sub>2</sub> O	6132-04-3	294.099	wh cry	150 dec				vs H <sub>2</sub> O; i EtOH, eth
2552	Sodium citrate pentahydrate	Na <sub>3</sub> C <sub>6</sub> H <sub>5</sub> O <sub>7</sub> · 5H <sub>2</sub> O	6858-44-2	348.145	hyg col cry	dec 150		1.86	92 <sup>25</sup>	vs H <sub>2</sub> O; sl EtOH; i eth
2553	Sodium cyanate	NaCNO	917-61-3	65.007	col needles	550		1.89		s H <sub>2</sub> O; sl EtOH; i eth
2554	Sodium cyanide	NaCN	143-33-9	49.008	wh cub cry; hyg	562		1.6	58.2 <sup>20</sup>	sl EtOH
2555	Sodium cyanoborohydride	NaBH <sub>3</sub> CN	25895-60-7	62.843	wh hyg powder	240 dec		1.12		vs H <sub>2</sub> O; s thf; sl EtOH; i bz, eth
2556	Sodium dichromate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	10588-01-9	261.968	red hyg cry	357	400 dec		187 <sup>25</sup>	
2557	Sodium dichromate dihydrate	Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> · 2H <sub>2</sub> O	7789-12-0	297.999	oran-red monocl cry	85 dec		2.35		vs H <sub>2</sub> O; S HOAc
2558	Sodium dihydrogen phosphate	NaH <sub>2</sub> PO <sub>4</sub>	7558-80-7	119.977	col monocl cry	200 dec			94.9 <sup>25</sup>	
2559	Sodium dihydrogen phosphate monohydrate	NaH <sub>2</sub> PO <sub>4</sub> · H <sub>2</sub> O	10049-21-5	137.993	wh hyg cry	100 dec			94.9 <sup>25</sup>	i EtOH
2560	Sodium dihydrogen phosphate dihydrate	NaH <sub>2</sub> PO <sub>4</sub> · 2H <sub>2</sub> O	13472-35-0	156.008	col orth cry	60 dec		1.91	94.9 <sup>25</sup>	i EtOH
2561	Sodium dihydrogen hypophosphate hexahydrate	Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>6</sub> · 6H <sub>2</sub> O	7782-95-8	314.031	monocl plates	110 dec		1.849	2.0 <sup>25</sup>	i EtOH

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2562	Sodium dihydrogen pyrophosphate	Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	7758-16-9	221.939	wh powder	220 dec		≈1.9		s H <sub>2</sub> O
2563	Sodium dithionate	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub>	7775-14-6	174.108	gray-wh powder	52 dec			24.1 <sup>20</sup>	sl EtOH
2564	Sodium dithionate dihydrate	Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O	7631-94-9*	242.137	col orth cry	110 dec		2.19	15.1 <sup>20</sup>	i EtOH
2565	Sodium ethanolate	NaC <sub>2</sub> H <sub>3</sub> O	141-52-6	68.050	wh-yel hyg powder	260 dec				reac H <sub>2</sub> O; s EtOH
2566	Sodium ferricyanide monohydrate	Na <sub>3</sub> Fe(CN) <sub>6</sub> · H <sub>2</sub> O	14217-21-1*	298.933	red hyg cry					s H <sub>2</sub> O; i EtOH
2567	Sodium ferrocyanide decahydrate	Na <sub>4</sub> Fe(CN) <sub>6</sub> · 10H <sub>2</sub> O	13601-19-9	484.061	yel monocl cry	≈50 dec		1.46	20 <sup>20</sup>	i os
2568	Sodium fluoride	NaF	7681-49-4	41.988	col cub or tetra cry	996	1704	2.78	4.13 <sup>25</sup>	i EtOH
2569	Sodium fluorophosphate	Na <sub>2</sub> PO <sub>3</sub> F	10163-15-2	143.950	powder					
2570	Sodium formate	NaCHO <sub>2</sub>	141-53-7	68.008	wh hyg cry	257.3	dec	1.92	94.9 <sup>25</sup>	sl EtOH
2571	Sodium germanate	Na <sub>2</sub> GeO <sub>3</sub>	12025-19-3	166.62	wh monocl hyg cry	1083		3.31		
2572	Sodium gold cyanide	NaAu(CN) <sub>2</sub>	15280-09-8	271.991	wh-yel cry pow					s H <sub>2</sub> O, NH <sub>4</sub> OH
2573	Sodium gold thiosulfate dihydrate	Na <sub>2</sub> Au(S <sub>2</sub> O <sub>3</sub> ) <sub>2</sub> · 5H <sub>2</sub> O	10233-88-2	526.223	wh needles or prisms	dec 150		3.09		vs H <sub>2</sub> O; i EtOH
2574	Sodium hexabromoplatinate(IV) hexahydrate	Na <sub>2</sub> PtBr <sub>6</sub> · 6H <sub>2</sub> O	39277-13-9	828.579	cry					
2575	Sodium hexachloroiridate(IV) hexahydrate	Na <sub>2</sub> IrCl <sub>6</sub> · 6H <sub>2</sub> O	19567-78-3	559.006	cry	600 dec				
2576	Sodium hexachloroplatinate(IV)	Na <sub>2</sub> PtCl <sub>6</sub>	16923-58-3	453.782	yel hyg cry				53 <sup>16</sup>	s EtOH
2577	Sodium hexachloroplatinate(IV) hexahydrate	Na <sub>2</sub> PtCl <sub>6</sub> · 6H <sub>2</sub> O	16923-58-3	561.873	yel cry	110 dec		2.50	53 <sup>16</sup>	s EtOH; i eth
2578	Sodium hexafluoroaluminate	Na <sub>3</sub> AlF <sub>6</sub>	13775-53-6	209.941	col monocl cry; trans cub 560	1013		2.97		i H <sub>2</sub> O
2579	Sodium hexafluoroantimonate	NaSbF <sub>6</sub>	16925-25-0	258.740	wh cub cry			3.375	129 <sup>20</sup>	s EtOH, ace
2580	Sodium hexafluorophosphate monohydrate	NaPF <sub>6</sub> · H <sub>2</sub> O	20644-15-9	185.969	col orth cry			2.369	103 <sup>9</sup>	s EtOH, MeOH, ace
2581	Sodium hexafluorosilicate	Na <sub>2</sub> SiF <sub>6</sub>	16893-85-9	188.056	wh hex cry	847		2.7	0.67 <sup>20</sup>	i EtOH
2582	Sodium hexanitrocobaltate(III)	Na <sub>3</sub> Co(NO <sub>2</sub> ) <sub>6</sub>	14649-73-1	403.935	yel-brn cry powder					vs H <sub>2</sub> O; sl EtOH
2583	Sodium hydride	NaH	7646-69-7	23.998	silv cub cry; flam	425 dec		1.39		reac H <sub>2</sub> O; EtOH
2584	Sodium hydrogen arsenate	Na <sub>2</sub> HAsO <sub>4</sub>	7778-43-0	185.908	wh powder	≈195 dec			51 <sup>20</sup>	sl EtOH
2585	Sodium hydrogen arsenate heptahydrate	Na <sub>2</sub> HAsO <sub>4</sub> · 7H <sub>2</sub> O	10048-95-0	312.014	wh monocl cry	≈50 dec		1.87	51 <sup>20</sup>	sl EtOH
2586	Sodium hydrogen carbonate	NaHCO <sub>3</sub>	144-55-8	84.007	wh monocl cry	≈50 dec		2.20	10.3 <sup>25</sup>	i EtOH
2587	Sodium hydrogen fluoride	NaHF <sub>2</sub>	1333-83-1	61.995	wh hex cry	>160 dec		2.08	3.25 <sup>20</sup>	
2588	Sodium hydrogen phosphate	Na <sub>2</sub> HPO <sub>4</sub>	7558-79-4	141.959	wh hyg powder			1.7	11.8 <sup>25</sup>	
2589	Sodium hydrogen phosphate heptahydrate	Na <sub>2</sub> HPO <sub>4</sub> · 7H <sub>2</sub> O	7782-85-6	268.066	col cry			≈1.7	11.8 <sup>25</sup>	i EtOH
2590	Sodium hydrogen phosphate dodecahydrate	Na <sub>2</sub> HPO <sub>4</sub> · 12H <sub>2</sub> O	10039-32-4	358.143	col cry	≈35 dec		≈1.5	11.8 <sup>25</sup>	i EtOH
2591	Sodium hydrogen sulfate	NaHSO <sub>4</sub>	7681-38-1	120.061	wh hyg cry	≈315		2.43	28.5 <sup>25</sup>	
2592	Sodium hydrogen sulfate monohydrate	NaHSO <sub>4</sub> · H <sub>2</sub> O	10034-88-5	138.076	wh monocl cry			2.10	28.5 <sup>25</sup>	reac EtOH
2593	Sodium hydrogen sulfide	NaHS	16721-80-5	56.063	col rhomb cry	350		1.79		s H <sub>2</sub> O, EtOH, eth
2594	Sodium hydrogen sulfide dihydrate	NaHS · 2H <sub>2</sub> O	16721-80-5	92.094	yel hyg needles	55 dec				vs H <sub>2</sub> O, EtOH, eth
2595	Sodium hydrogen sulfite	NaHSO <sub>3</sub>	7631-90-5	104.061	wh cry			1.48		s H <sub>2</sub> O; sl EtOH
2596	Sodium hydroxide	NaOH	1310-73-2	39.997	wh orth cry; hyg	323	1388	2.13	100 <sup>25</sup>	s EtOH, MeOH
2597	Sodium hypochlorite	NaClO	7681-52-9	74.442	stab in aq soln	anh form exp			79.9 <sup>25</sup>	
2598	Sodium hypochlorite pentahydrate	NaOCl · 5H <sub>2</sub> O	10022-70-5	164.518	pale grn orth cry	18		1.6		s H <sub>2</sub> O
2599	Sodium iodate	NaIO <sub>3</sub>	7681-55-2	197.892	wh orth cry	422		4.28	9.47 <sup>25</sup>	i EtOH
2600	Sodium iodide	NaI	7681-82-5	149.894	wh cub cry; hyg	661	1304	3.67	184 <sup>25</sup>	s EtOH, ace
2601	Sodium iodide dihydrate	NaI · 2H <sub>2</sub> O	13517-06-1	185.925	hyg col monocl cry	69 dec		2.45	318 <sup>9</sup>	vs H <sub>2</sub> O
2602	Sodium bismuthate	NaBiO <sub>3</sub>	12232-99-4	279.968	yel-brn hyg cry					i cold H <sub>2</sub> O, reac acid
2603	Sodium metabisulfite	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7681-57-4	190.107	wh cry				66.7 <sup>25</sup>	sl EtOH
2604	Sodium metaborate	NaBO <sub>2</sub>	7775-19-1	65.800	wh hex cry	966	1434	2.46		s H <sub>2</sub> O
2605	Sodium metasilicate	Na <sub>2</sub> SiO <sub>3</sub>	6834-92-0	122.064	wh amorp solid; hyg	1089		2.61		s cold H <sub>2</sub> O; reac hot H <sub>2</sub> O; i EtOH
2606	Sodium metasilicate pentahydrate	Na <sub>2</sub> SiO <sub>3</sub> · 5H <sub>2</sub> O	13517-24-3	212.140	wh pow	72 dec				s H <sub>2</sub> O
2607	Sodium molybdate	Na <sub>2</sub> MoO <sub>4</sub>	7631-95-0	205.92	col cub cry	687		≈3.5	65.0 <sup>25</sup>	
2608	Sodium molybdate dihydrate	Na <sub>2</sub> MoO <sub>4</sub> · 2H <sub>2</sub> O	10102-40-6	241.95	cry powder	100 dec		≈3.5	65.0 <sup>25</sup>	
2609	Sodium molybdophosphate	Na <sub>3</sub> PO <sub>4</sub> · 12MoO <sub>3</sub>	1313-30-0	1891.20	hyg solid			2.83		vs H <sub>2</sub> O, EtOH
2610	Sodium niobate	NaNbO <sub>3</sub>	12034-09-2	163.894	rhomb cry	1422		4.55		i H <sub>2</sub> O
2611	Sodium nitrate	NaNO <sub>3</sub>	7631-99-4	84.995	col hex cry; hyg	306.5		2.261	91.2 <sup>25</sup>	sl EtOH, MeOH
2612	Sodium nitrite	NaNO <sub>2</sub>	7632-00-0	68.996	wh orth cry; hyg	284	>320 dec	2.17	84.8 <sup>25</sup>	sl EtOH; reac acid
2613	Sodium nitroferrocyanide dihydrate	Na <sub>3</sub> [Fe(CN) <sub>5</sub> NO] · 2H <sub>2</sub> O	13755-38-9	297.949	red cry			1.72	40 <sup>16</sup>	sl EtOH
2614	Sodium orthovanadate	Na <sub>3</sub> VO <sub>4</sub>	13721-39-6	183.909	col hex prisms	860				s H <sub>2</sub> O; i EtOH
2615	Sodium oxalate	Na <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	62-76-0	133.999	wh powder	≈250 dec		2.34	3.61 <sup>25</sup>	i EtOH



No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2616	Sodium oxide	Na <sub>2</sub> O	1313-59-3	61.979	wh amorp powder	1134		2.27		reac H <sub>2</sub> O
2617	Sodium perborate tetrahydrate	NaBO <sub>3</sub> · 4H <sub>2</sub> O	7632-04-4	153.861	wh cry	60 dec				reac H <sub>2</sub> O
2618	Sodium perchlorate	NaClO <sub>4</sub>	7601-89-0	122.441	wh orth cry; hyg	482 dec		2.52	205 <sup>25</sup>	
2619	Sodium perchlorate monohydrate	NaClO <sub>4</sub> · H <sub>2</sub> O	7791-07-3	140.456	wh hyg cry	≈130 dec		2.02	205 <sup>25</sup>	
2620	Sodium periodate	NaIO <sub>3</sub>	7790-28-5	213.892	wh tet cry	≈300 dec		3.86	14.4 <sup>25</sup>	s acid
2621	Sodium periodate trihydrate	NaIO <sub>3</sub> · 3H <sub>2</sub> O	13472-31-6	267.938	wh hex cry	175 dec		3.22	14.4 <sup>25</sup>	
2622	Sodium permanganate trihydrate	NaMnO <sub>4</sub> · 3H <sub>2</sub> O	10101-50-5*	195.972	red-blk hyg cry	170 dec		2.47	144 <sup>20</sup>	reac EtOH
2623	Sodium peroxide	Na <sub>2</sub> O <sub>2</sub>	1313-60-6	77.979	yel hyg powder	675		2.805		reac H <sub>2</sub> O
2624	Sodium perrhenate	NaReO <sub>4</sub>	13472-33-8	273.195	cry	300		5.39		
2625	Sodium persulfate	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	7775-27-1	238.105	wh hyg cry					vs H <sub>2</sub> O; reac EtOH
2626	Sodium phosphate	Na <sub>3</sub> PO <sub>4</sub>	7601-54-9	163.940	col cry	1583		2.54	14.5 <sup>25</sup>	s H <sub>2</sub> O
2627	Sodium phosphate dodecahydrate	Na <sub>3</sub> PO <sub>4</sub> · 12H <sub>2</sub> O	10101-89-0	380.124	col hex cry	≈75		1.62	14.4 <sup>25</sup>	i EtOH
2628	Sodium phosphate, chlorinated	Na <sub>2</sub> PO <sub>4</sub> · NaOCl	56802-99-4	238.383	wh cry				25 <sup>25</sup>	
2629	Sodium phosphide	Na <sub>3</sub> P	12058-85-4	99.943	red solid	>650				reac H <sub>2</sub> O
2630	Sodium phosphinate	NaH <sub>2</sub> PO <sub>2</sub>	7681-53-0	87.979	wh cry				100 <sup>25</sup>	
2631	Sodium phosphinate monohydrate	NaH <sub>2</sub> PO <sub>2</sub> · H <sub>2</sub> O	10039-56-2	105.994	col hyg cry	310 dec			100 <sup>25</sup>	s EtOH
2632	Sodium phosphonate pentahydrate	Na <sub>2</sub> HPO <sub>3</sub> · 5H <sub>2</sub> O	13517-23-2	216.036	wh hex plates	dec 200			429 <sup>20</sup>	vs H <sub>2</sub> O; i EtOH
2633	Sodium pyrophosphate	Na <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	7722-88-5	265.902	col cry	988		2.53	7.09 <sup>25</sup>	
2634	Sodium selenate	Na <sub>2</sub> SeO <sub>4</sub>	13410-01-0	188.94	col orth cry				58.5 <sup>25</sup>	
2635	Sodium selenate decahydrate	Na <sub>2</sub> SeO <sub>4</sub> · 10H <sub>2</sub> O	10102-23-5	369.09	wh cry			1.61	58.5 <sup>25</sup>	
2636	Sodium selenide	Na <sub>2</sub> Se	1313-85-5	124.94	amorp solid	>875		2.62		reac H <sub>2</sub> O
2637	Sodium selenite	Na <sub>2</sub> SeO <sub>3</sub>	10102-18-8	172.94	wh tet cry				89.8 <sup>25</sup>	i EtOH
2638	Sodium selenite pentahydrate	Na <sub>2</sub> SeO <sub>3</sub> · 5H <sub>2</sub> O	26970-82-1	184.054	wh tet cry	dec				s H <sub>2</sub> O; i EtOH
2639	Sodium stannate trihydrate	Na <sub>2</sub> SnO <sub>3</sub> · 3H <sub>2</sub> O	12209-98-2	266.734	col hex cry	dec 140			61 <sup>15</sup>	vs H <sub>2</sub> O; i EtOH, ace
2640	Sodium stearate	NaC <sub>18</sub> H <sub>35</sub> O <sub>2</sub>	822-16-2	306.460	wh powder					sl H <sub>2</sub> O, EtOH; vs hot H <sub>2</sub> O
2641	Sodium succinate hexahydrate	Na <sub>2</sub> C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> · 6H <sub>2</sub> O	150-90-3	270.144	cry powder	120 dec			20	i EtOH
2642	Sodium sulfate	Na <sub>2</sub> SO <sub>4</sub>	7757-82-6	142.043	wh orth cry or powder	884		2.7	28.1 <sup>25</sup>	i EtOH
2643	Sodium sulfate heptahydrate	Na <sub>2</sub> SO <sub>4</sub> · 7H <sub>2</sub> O	13472-39-4	204.152	wh cry	dec				vs H <sub>2</sub> O
2644	Sodium sulfate decahydrate	Na <sub>2</sub> SO <sub>4</sub> · 10H <sub>2</sub> O	7727-73-3	322.196	col monocl cry	32 dec		1.46	28.1 <sup>25</sup>	i EtOH
2645	Sodium sulfide	Na <sub>2</sub> S	1313-82-2	78.045	wh cub cry; hyg	1172		1.856	20.6 <sup>25</sup>	sl EtOH; i eth
2646	Sodium sulfide pentahydrate	Na <sub>2</sub> S · 5H <sub>2</sub> O	1313-83-3	168.121	col orth cry	120 dec		1.58	20.6 <sup>25</sup>	s EtOH; i eth
2647	Sodium sulfide nonahydrate	Na <sub>2</sub> S · 9H <sub>2</sub> O	1313-84-4	240.183	wh-yel hyg cry	≈50 dec		1.43	20.6 <sup>25</sup>	sl EtOH; i eth
2648	Sodium sulfite	Na <sub>2</sub> SO <sub>3</sub>	7757-83-7	126.043	wh hex cry	911		2.63	30.7 <sup>25</sup>	i EtOH
2649	Sodium sulfite heptahydrate	Na <sub>2</sub> SO <sub>3</sub> · 7H <sub>2</sub> O	10102-15-5	252.150	wh monocl cry; unstab			1.56	30.7 <sup>25</sup>	sl EtOH
2650	Sodium superoxide	NaO <sub>2</sub>	12034-12-7	54.989	yel cub cry	552		2.2		reac H <sub>2</sub> O
2651	Sodium tartrate dihydrate	Na <sub>2</sub> C <sub>4</sub> H <sub>4</sub> O <sub>6</sub> · 2H <sub>2</sub> O	6106-24-7	230.082				1.545		s H <sub>2</sub> O; i EtOH
2652	Sodium tellurate	Na <sub>2</sub> TeO <sub>4</sub>	10101-83-4	237.58	wh powder				0.8	
2653	Sodium tellurite	Na <sub>2</sub> TeO <sub>3</sub>	10102-20-2	221.58	wh rhomb prisms					sl H <sub>2</sub> O
2654	Sodium tetraborate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub>	1330-43-4	201.220	col gl solid; hyg	743	1575	2.4	3.17 <sup>25</sup>	sl MeOH
2655	Sodium tetraborate tetrahydrate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 4H <sub>2</sub> O	12045-87-3	273.281	wh monocl cry			1.95	3.17 <sup>25</sup>	
2656	Sodium tetraborate pentahydrate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 5H <sub>2</sub> O	12045-88-4	291.296	hex cry	dec		1.88	3.17 <sup>25</sup>	
2657	Sodium tetraborate decahydrate	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> · 10H <sub>2</sub> O	1303-96-4	381.373	wh monocl cry	75 dec		1.73	3.17 <sup>25</sup>	i EtOH
2658	Sodium tetrachloroaluminate	NaAlCl <sub>4</sub>	7784-16-9	191.784	orth cry			2.01		s H <sub>2</sub> O
2659	Sodium tetrachloroaurate(III) dihydrate	NaAuCl <sub>4</sub> · 2H <sub>2</sub> O	13874-02-7	397.800	oran-yel rhom cry	100 dec			150 <sup>10</sup>	s EtOH, eth
2660	Sodium tetrachloropalladate(II) trihydrate	Na <sub>2</sub> PdCl <sub>4</sub> · 3H <sub>2</sub> O	13820-53-6	348.26	brn-red hyg cry					vs H <sub>2</sub> O; s EtOH
2661	Sodium tetrachloroplatinate(II) tetrahydrate	Na <sub>2</sub> PtCl <sub>4</sub> · 4H <sub>2</sub> O	10026-00-3	454.938	red prisms	100				s H <sub>2</sub> O, EtOH
2662	Sodium tetrafluoroberyllate	Na <sub>2</sub> BeF <sub>4</sub>	13871-27-7	130.986	orth cry	575		2.47		sl H <sub>2</sub> O
2663	Sodium tetrafluoroborate	NaBF <sub>4</sub>	13755-29-8	109.795	wh orth prisms	384		2.47	108 <sup>20</sup>	sl EtOH
2664	Sodium thioantimonate nonahydrate	Na <sub>3</sub> SbS <sub>4</sub> · 9H <sub>2</sub> O	10101-91-4	481.127	yel cry	dec 108		1.8	28 <sup>20</sup>	i EtOH
2665	Sodium thiocyanate	NaSCN	540-72-7	81.073	col hyg cry	287			151 <sup>25</sup>	
2666	Sodium thiophosphate dodecahydrate	Na <sub>2</sub> PO <sub>3</sub> S · 12H <sub>2</sub> O	10101-88-9	396.190	hex hyg leaflets	60				vs hot H <sub>2</sub> O
2667	Sodium thiosulfate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	7772-98-7	158.108	col monocl cry	100 dec		1.69	76.4 <sup>25</sup>	i EtOH
2668	Sodium thiosulfate pentahydrate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> · 5H <sub>2</sub> O	10102-17-7	248.184	col cry	≈50 dec		1.69	76.4 <sup>25</sup>	i EtOH
2669	Sodium trimetaphosphate	Na <sub>3</sub> (PO <sub>3</sub> ) <sub>3</sub>	7785-84-4	305.885	wh cry			2.49	22	
2670	Sodium trimetaphosphate hexahydrate	Na <sub>3</sub> (PO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	7785-84-4	413.976	tricl-rhom hyg prisms	53		1.786	22	i EtOH
2671	Sodium tripolyphosphate	Na <sub>3</sub> P <sub>3</sub> O <sub>10</sub>	7758-29-4	367.864	wh hyg powder	622			20 <sup>25</sup>	
2672	Sodium tungstate	Na <sub>2</sub> WO <sub>4</sub>	13472-45-2	293.82	wh rhom cry	695		4.18	74.2 <sup>25</sup>	
2673	Sodium tungstate dihydrate	Na <sub>2</sub> WO <sub>4</sub> · 2H <sub>2</sub> O	10213-10-2	329.85	wh orth cry	100 dec		3.25	74.2 <sup>25</sup>	i EtOH
2674	Sodium uranate(VI) monohydrate	Na <sub>2</sub> U <sub>2</sub> O <sub>7</sub> · H <sub>2</sub> O	13721-34-1	652.049	yel powder					i H <sub>2</sub> O; s acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2675	Sodium vanadate(V)	NaVO <sub>3</sub>	13718-26-8	121.930	col monoc prisms	630			21 <sup>25</sup>	
2676	Sodium vanadate(V) tetrahydrate	NaVO <sub>3</sub> · 4H <sub>2</sub> O	13718-26-8	193.992	yel-wh cry powder				21 <sup>25</sup>	
2677	Strontium	Sr	7440-24-6	87.62	silv-wh metal; cub	777	1382	2.64		react H <sub>2</sub> O; s EtOH
2678	Strontium acetate	Sr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	543-94-2	205.71	col hyg cry	dec		2.1	40 <sup>25</sup>	vs H <sub>2</sub> O
2679	Strontium arsenite tetrahydrate	Sr(AsO <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	10378-48-0	373.52	wh powder					sl H <sub>2</sub> O, EtOH; sol dil acid
2680	Strontium bromate monohydrate	Sr(BrO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O	14519-18-7	361.44	yel hyg monoc cry	120 dec		3.773	39.0 <sup>25</sup>	
2681	Strontium bromide	SrBr <sub>2</sub>	10476-81-0	247.43	wh tetr cry	657		4.216	107 <sup>25</sup>	
2682	Strontium bromide hexahydrate	SrBr <sub>2</sub> · 6H <sub>2</sub> O	7789-53-9	355.52	col hyg cry	88 dec			107 <sup>25</sup>	s EtOH; i eth
2683	Strontium carbide	SrC <sub>2</sub>	12071-29-3	111.64	blk tetr cry	>1700		3.19		i H <sub>2</sub> O
2684	Strontium carbonate	SrCO <sub>3</sub>	1633-05-2	147.63	wh orth cry; hyg	1494		3.785	0.00034 <sup>20</sup>	s dil acid
2685	Strontium chlorate	Sr(ClO <sub>3</sub> ) <sub>2</sub>	7791-10-8	254.52	col cry	120 dec		3.15	176 <sup>25</sup>	sl EtOH
2686	Strontium chloride	SrCl <sub>2</sub>	10476-85-4	158.53	wh cub cry; hyg	874	1250	3.052	54.7 <sup>25</sup>	
2687	Strontium chloride hexahydrate	SrCl <sub>2</sub> · 6H <sub>2</sub> O	10025-70-4	266.62	col hyg cry	100 dec		1.96	54.7 <sup>25</sup>	s EtOH
2688	Strontium chromate	SrCrO <sub>4</sub>	7789-06-2	203.61	yel monoc cry	dec		3.9	0.106 <sup>20</sup>	s dil acid
2689	Strontium cyanide dihydrate	Sr(CN) <sub>2</sub> · 4H <sub>2</sub> O	52870-08-3	211.72	wh hyg cry	dec				vs H <sub>2</sub> O
2690	Strontium ferrocyanide pentadecahydrate	SrFe(CN) <sub>6</sub> · 15H <sub>2</sub> O	14654-44-5	569.80	yel monoc cry				50	
2691	Strontium fluoride	SrF <sub>2</sub>	7783-48-4	125.62	wh cub cry or powder	1477	2460	4.24	0.021 <sup>25</sup>	s dil acid
2692	Strontium formate	Sr(CHO <sub>2</sub> ) <sub>2</sub>	592-89-2	177.66	wh cry	71.9		2.693	9.1 <sup>0</sup>	
2693	Strontium formate dihydrate	Sr(CHO <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	6160-34-5	213.69	col rhom cry	100 dec		2.25	9.1 <sup>37</sup>	i EtOH, eth
2694	Strontium hexaboride	SrB <sub>6</sub>	12046-54-7	152.49	blk cub cry	2235		3.39		i H <sub>2</sub> O; s HNO <sub>3</sub>
2695	Strontium hydride	SrH <sub>2</sub>	13598-33-9	89.64	orth cry	1050		3.26		react H <sub>2</sub> O
2696	Strontium hydroxide	Sr(OH) <sub>2</sub>	18480-07-4	121.64	col orth cry; hyg	535	710 dec	3.625	2.25 <sup>25</sup>	
2697	Strontium iodate	Sr(IO <sub>3</sub> ) <sub>2</sub>	13470-01-4	437.43	tricl cry			5.045	0.165 <sup>25</sup>	
2698	Strontium iodide	SrI <sub>2</sub>	10476-86-5	341.43	wh hyg cry	538	1773 dec	4.55	177 <sup>25</sup>	
2699	Strontium iodide hexahydrate	SrI <sub>2</sub> · 6H <sub>2</sub> O	73796-25-5	449.52	wh-yel hex cry; hyg	120 dec		4.4	177 <sup>25</sup>	s EtOH
2700	Strontium molybdate	SrMoO <sub>4</sub>	13470-04-7	247.56	wh cry pow	1040		4.54		i H <sub>2</sub> O
2701	Strontium niobate	SrNb <sub>2</sub> O <sub>6</sub>	12034-89-8	369.43	monoc cry	1225		5.11		i H <sub>2</sub> O
2702	Strontium nitrate	Sr(NO <sub>3</sub> ) <sub>2</sub>	10042-76-9	211.63	wh cub cry	570		2.99	80.2 <sup>25</sup>	sl EtOH, ace
2703	Strontium nitride	Sr <sub>3</sub> N <sub>2</sub>	12033-82-8	290.87	refrac solid	1200				react H <sub>2</sub> O; s HCl
2704	Strontium nitrite	Sr(NO <sub>2</sub> ) <sub>2</sub>	13470-06-9	179.63	wh-yel hyg needles	240 dec		2.8	72.1 <sup>30</sup>	s H <sub>2</sub> O
2705	Strontium orthosilicate	Sr <sub>2</sub> SiO <sub>4</sub>	13597-55-2	267.32	orth cry			4.5		
2706	Strontium oxalate monohydrate	SrC <sub>2</sub> O <sub>4</sub> · H <sub>2</sub> O	814-95-9	193.65	cry pow	dec 150			0.00005 <sup>20</sup>	sl dil acid
2707	Strontium oxide	SrO	1314-11-0	103.62	col cub cry	2531		5.1		react H <sub>2</sub> O
2708	Strontium perchlorate	Sr(ClO <sub>4</sub> ) <sub>2</sub>	13450-97-0	286.52	col hyg cry				306 <sup>25</sup>	s EtOH, MeOH
2709	Strontium permanganate trihydrate	Sr(MnO <sub>4</sub> ) <sub>2</sub> · 3H <sub>2</sub> O	14446-13-0	379.54	purp cub cry	175 dec		2.75	250 <sup>18</sup>	
2710	Strontium peroxide	SrO <sub>2</sub>	1314-18-7	119.62	wh tetr cry; unstab	215 dec		4.78		react H <sub>2</sub> O
2711	Strontium phosphate	Sr <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7446-28-8	452.80	wh powder				0.000011 <sup>20</sup>	s acid
2712	Strontium selenate	SrSeO <sub>4</sub>	7446-21-1	230.58	orth cry			4.25	0.115 <sup>20</sup>	s hot HCl
2713	Strontium selenide	SrSe	1315-07-7	166.58	wh cub cry	1600		4.54		
2714	Strontium silicide	SrSi <sub>2</sub>	12138-28-2	143.79	silv-gray cub cry	1100		3.35		
2715	Strontium sulfate	SrSO <sub>4</sub>	7759-02-6	183.68	wh orth cry	1606		3.96	0.0135 <sup>25</sup>	i EtOH; sl acid
2716	Strontium sulfide	SrS	1314-95-1	119.69	gray cub cry	2226		3.70		sl H <sub>2</sub> O; s acid
2717	Strontium sulfite	SrSO <sub>3</sub>	13451-02-0	167.68	col cry	dec			0.0015 <sup>25</sup>	s H <sub>2</sub> SO <sub>4</sub> , HCl
2718	Strontium telluride	SrTe	12040-08-3	215.22	wh cub cry			4.83		
2719	Strontium thiosulfate pentahydrate	SrS <sub>2</sub> O <sub>3</sub> · 5H <sub>2</sub> O	15123-90-7	289.82	monoc needles	100 dec		2.17	36.3 <sup>25</sup>	i EtOH
2720	Strontium titanate	SrTiO <sub>3</sub>	12060-59-2	183.49	wh cub cry	2080		5.1		i H <sub>2</sub> O
2721	Strontium tungstate	SrWO <sub>4</sub>	13451-05-3	335.46	col tetr cry	dec		6.187	0.14 <sup>15</sup>	i EtOH
2722	Strontium zirconate	SrZrO <sub>3</sub>	12036-39-4	226.84	col cry	2600				
2723	Sulfur (rhombic)	S	7704-34-9	32.065	yel orth cry	95.3 (trans to monoc)	444.61	2.07		i H <sub>2</sub> O; sl EtOH, bz, eth; s CS <sub>2</sub>
2724	Sulfur (monoclinic)	S	7704-34-9	32.065	yel monoc needles, stable	115.21 95.3-120	444.61	2.07		i H <sub>2</sub> O; sl EtOH, bz, eth; s CS <sub>2</sub>
2725	Sulfuric acid	H <sub>2</sub> SO <sub>4</sub>	7664-93-9	98.079	col oily liq	10.31	337	1.8302		vs H <sub>2</sub> O
2726	Peroxy-sulfuric acid	H <sub>2</sub> SO <sub>5</sub>	7722-86-3	114.078	wh cry; unstab	45 dec				vs H <sub>2</sub> O
2727	Nitrosylsulfuric acid	HNO <sub>3</sub> SO <sub>4</sub>	7782-78-7	127.077	prisms	73 dec				react H <sub>2</sub> O; s H <sub>2</sub> SO <sub>4</sub>
2728	Chlorosulfonic acid	SO <sub>2</sub> (OH)Cl	7790-94-5	116.524	col-yel liq	-80	152	1.75		react H <sub>2</sub> O; s py
2729	Fluorosulfonic acid	SO <sub>2</sub> (OH)F	7789-21-1	100.069	col liq	-89	163	1.726		react H <sub>2</sub> O
2730	Sulfurous acid	H <sub>2</sub> SO <sub>3</sub>	7782-99-2	82.079	exists only in aq soln					
2731	Sulfamic acid	H <sub>2</sub> NSO <sub>3</sub> H	5329-14-6	97.094	orth cry	≈205 dec		2.15	14.7 <sup>0</sup>	sl ace; i eth
2732	Sulfur dioxide	SO <sub>2</sub>	7446-09-5	64.064	col gas	-75.5	-10.05	2.619 g/L		s H <sub>2</sub> O, EtOH, eth, chl

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2733	Sulfur trioxide	SO <sub>3</sub>	7446-11-9	80.063	wh needles	62.2	subl			reac H <sub>2</sub> O
2734	Sulfur trioxide (γ-form)	SO <sub>3</sub>	7446-11-9	80.063	col solid or liq	16.8	44.5	1.90		reac H <sub>2</sub> O
2735	Sulfur trioxide (β-form)	SO <sub>3</sub>	7446-11-9	80.063	wh needles	30.5	44.5			reac H <sub>2</sub> O
2736	Sulfur bromide (SSBr <sub>2</sub> )	SSBr <sub>2</sub>	13172-31-1	223.938	red oily liq	-46	>25 dec	2.63		reac H <sub>2</sub> O
2737	Sulfur chloride (SSCl <sub>2</sub> )	SSCl <sub>2</sub>	10025-67-9	135.036	yel-red oily liq	-77	137	1.69		reac H <sub>2</sub> O; s EtOH, bz, eth, ctc
2738	Sulfur fluoride (SSF <sub>2</sub> )	SSF <sub>2</sub>	16860-99-4	102.127	col gas	-164.6	-10.6	4.174 g/L		reac H <sub>2</sub> O
2739	Sulfur fluoride (FSSF)	FSSF	13709-35-8	102.127	col gas	-133	15	4.174 g/L		reac H <sub>2</sub> O
2740	Sulfur dichloride	SCl <sub>2</sub>	10545-99-0	102.971	red visc liq	-122	59.6	1.62		reac H <sub>2</sub> O
2741	Sulfur tetrafluoride	SF <sub>4</sub>	7783-60-0	108.059	col gas	-125	-40.45	4.417 g/L		reac H <sub>2</sub> O
2742	Sulfur hexafluoride	SF <sub>6</sub>	2551-62-4	146.055	col gas	-49.596 tp	-63.8 sp	5.970 g/L		sl H <sub>2</sub> O; s EtOH
2743	Sulfur bromide pentafluoride	SF <sub>5</sub> Br	15607-89-3	206.961	col gas	-79	3.1	8.459 g/L		
2744	Sulfur chloride pentafluoride	SF <sub>5</sub> Cl	13780-57-9	162.510	col gas	-64	-19.05	6.642 g/L		
2745	Sulfur decafluoride	S <sub>2</sub> F <sub>10</sub>	5714-22-7	254.114	liq	-52.7	30; dec 150	2.08		i H <sub>2</sub> O
2746	Sulfuryl amide	(NH <sub>2</sub> ) <sub>2</sub> SO <sub>2</sub>	7803-58-9	96.109	orth plates	93	250 dec			vs H <sub>2</sub> O; sl EtOH
2747	Sulfuryl chloride	SO <sub>2</sub> Cl <sub>2</sub>	7791-25-5	134.970	col liq	-51	69.4	1.680		reac H <sub>2</sub> O; s bz, tol, eth
2748	Sulfuryl fluoride	SO <sub>2</sub> F <sub>2</sub>	2699-79-8	102.061	col gas	-135.8	-55.4	4.172 g/L		sl H <sub>2</sub> O, EtOH; s tol, ctc
2749	Sulfuryl bromide fluoride	SO <sub>2</sub> BrF	13536-61-3	162.966	col liq	-86	41			reac H <sub>2</sub> O
2750	Sulfuryl chloride fluoride	SO <sub>2</sub> ClF	13637-84-8	118.515	col gas	-124.7	7.1	1.62 <sup>o</sup>		reac H <sub>2</sub> O
2751	Pyrosulfuryl chloride	S <sub>2</sub> O <sub>3</sub> Cl <sub>2</sub>	7791-27-7	215.033	col fuming liq	-37	151	1.837		reac H <sub>2</sub> O
2752	Thionyl bromide	SOBr <sub>2</sub>	507-16-4	207.872	yel liq	-50	140			reac H <sub>2</sub> O
2753	Thionyl chloride	SOCl <sub>2</sub>	7719-09-7	118.970	yel fuming liq	-101	75.6	1.631		reac H <sub>2</sub> O; s bz, ctc, chl
2754	Thionyl fluoride	SOF <sub>2</sub>	7783-42-8	86.061	col gas	-129.5	-43.8	3.518 g/L		reac H <sub>2</sub> O; s bz, eth
2755	Sulfur fluoride oxide (SOF <sub>4</sub> )	SOF <sub>4</sub>	13709-54-1	124.058	col gas	-99.6	-48.5	1.95 <sup>82</sup>		reac H <sub>2</sub> O
2756	Sulfur fluoride hypofluorite	F <sub>5</sub> SOF	15179-32-5	162.054	col gas	-86	-35.1	6.624 g/L		
2757	Tetrasulfur tetranitride	S <sub>4</sub> N <sub>4</sub>	28950-34-7	184.287	yel-oran cry	178.2	subl			i H <sub>2</sub> O; reac alk, acid
2758	Tantalum	Ta	7440-25-7	180.948	gray metal; cub	3017	5458	16.4		reac HF
2759	Tantalum aluminate	TaAl <sub>3</sub>	12004-76-1	261.893	gray refrac powder	≈1400		7.02		i H <sub>2</sub> O, acid, alk
2760	Tantalum boride (TaB)	TaB	12007-07-7	191.759	refrac orth cry	2040		14.2		
2761	Tantalum boride (TaB <sub>2</sub> )	TaB <sub>2</sub>	12007-35-1	202.570	blk hex cry	3100		11.2		i H <sub>2</sub> O, acid, alk
2762	Tantalum carbide (TaC)	TaC	12070-06-3	192.959	gold-brown powder; cub	3880	4780	14.3		s HF-HNO <sub>3</sub> mixture
2763	Tantalum carbide (Ta <sub>2</sub> C)	Ta <sub>2</sub> C	12070-07-4	373.907	refrac hex cry	3327		15.1		
2764	Tantalum hydride	TaH	13981-95-8	181.956	gray metallic solid			15.1		i acid
2765	Tantalum nitride	TaN	12033-62-4	194.955	blk hex cry	3090		13.7		i H <sub>2</sub> O; sl aqua regia; reac alk
2766	Tantalum silicide	TaSi <sub>2</sub>	12039-79-1	237.119	gray powder	2200		9.14		
2767	Tantalum(III) bromide	TaBr <sub>3</sub>	13842-73-4	420.660	gray-grn solid	dec 220				
2768	Tantalum(III) chloride	TaCl <sub>3</sub>	13569-67-0	287.307	blk-grn solid	dec 440				s H <sub>2</sub> O
2769	Tantalum(IV) bromide	TaBr <sub>4</sub>	13842-76-7	500.564	dark blue solid	392		5.77		reac H <sub>2</sub> O
2770	Tantalum(IV) chloride	TaCl <sub>4</sub>	13569-72-7	322.760	dark grn solid	dec 300	subl	4.35		reac H <sub>2</sub> O
2771	Tantalum(IV) iodide	TaI <sub>4</sub>	14693-80-2	688.566	gray-blk solid	400 dec				reac H <sub>2</sub> O
2772	Tantalum(IV) oxide	TaO <sub>2</sub>	12036-14-5	212.947	tetr cry			10.0		
2773	Tantalum(IV) selenide	TaSe <sub>2</sub>	12039-55-3	338.87	hex cry			6.7		
2774	Tantalum(IV) sulfide	TaS <sub>2</sub>	12143-72-5	245.078	blk hex cry	>3000		6.86		i H <sub>2</sub> O
2775	Tantalum(IV) telluride	TaTe <sub>2</sub>	12067-66-2	436.15	monocl cry			9.4		
2776	Tantalum(V) bromide	TaBr <sub>5</sub>	13451-11-1	580.468	yel cry powder	265.8	348.8	4.67		
2777	Tantalum(V) chloride	TaCl <sub>5</sub>	7721-01-9	358.213	yel-wh monocl cry; hyg	216.6	239	3.68		reac H <sub>2</sub> O; s EtOH
2778	Tantalum(V) fluoride	TaF <sub>5</sub>	7783-71-3	275.940	wh monocl cry; hyg	96.9	229.5	4.74		s H <sub>2</sub> O, eth; sl CS <sub>2</sub> , ctc
2779	Tantalum(V) iodide	TaI <sub>5</sub>	14693-81-3	815.470	blk hex cry; hyg	496	543	5.80		reac H <sub>2</sub> O
2780	Tantalum(V) oxide	Ta <sub>2</sub> O <sub>5</sub>	1314-61-0	441.893	wh rhomb cry or powder	1875		8.24		i H <sub>2</sub> O, EtOH, acid; s HF
2781	Technetium	Tc	7440-26-8	98	hex cry	2157	4265	11		
2782	Technetium(V) fluoride	TcF <sub>5</sub>	31052-14-9	193	yel solid	50	dec			
2783	Technetium(VI) fluoride	TcF <sub>6</sub>	13842-93-8	212	yel cub cry	37.4	55.3	3.0		
2784	Tellurium	Te	13494-80-9	127.60	gray-wh rhomb cry	449.51	988	6.232		i H <sub>2</sub> O, bz, CS <sub>2</sub>
2785	Telluric(VI) acid	H <sub>6</sub> TeO <sub>6</sub>	7803-68-1	229.64	wh monocl cry	136		3.07	50.1 <sup>30</sup>	
2786	Tellurous acid	H <sub>2</sub> TeO <sub>3</sub>	10049-23-7	177.61	wh cry	40 dec		3.0		sl H <sub>2</sub> O; s dil acid, alk
2787	Tellurium dioxide	TeO <sub>2</sub>	7446-07-3	159.60	wh orth cry	733	1245	5.9		i H <sub>2</sub> O; s alk, acid
2788	Tellurium trioxide	TeO <sub>3</sub>	13451-18-8	175.60	yel-oran cry	430		5.07		i H <sub>2</sub> O

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2789	Tellurium dibromide	TeBr <sub>2</sub>	7789-54-0	287.41	grn-brn hyg cry	210	339			reac H <sub>2</sub> O; s eth; sl chl
2790	Tellurium dichloride	TeCl <sub>2</sub>	10025-71-5	198.51	blk amorp solid; hyg	208	328	6.9		reac H <sub>2</sub> O; i ctc
2791	Tellurium tetrabromide	TeBr <sub>4</sub>	10031-27-3	447.22	yel-oran monocl cry	380	≈420 dec	4.3		reac H <sub>2</sub> O; s eth
2792	Tellurium tetrachloride	TeCl <sub>4</sub>	10026-07-0	269.41	wh monocl cry; hyg	224	387	3.0		reac H <sub>2</sub> O; s EtOH, tol
2793	Tellurium tetrafluoride	TeF <sub>4</sub>	15192-26-4	203.59	col cry	129	195 dec			reac H <sub>2</sub> O
2794	Tellurium decafluoride	Te <sub>2</sub> F <sub>10</sub>	53214-07-6	445.18	col liq	-33.7	59			
2795	Tellurium tetraiodide	TeI <sub>4</sub>	7790-48-9	632.22	blk orth cry	280		5.05		reac H <sub>2</sub> O; sl ace
2796	Tellurium hexafluoride	TeF <sub>6</sub>	7783-80-4	241.59	col gas	-37.6 tp	-38.9 sp	9.875 g/L		reac H <sub>2</sub> O
2797	Terbium	Tb	7440-27-9	158.925	silv metal; hex	1359	3230	8.23		
2798	Terbium nitride	TbN	12033-64-6	172.932	cub cry			9.55		
2799	Terbium silicide	TbSi <sub>2</sub>	12039-80-4	215.096	orth cry			6.66		
2800	Terbium(III) bromide	TbBr <sub>3</sub>	14456-47-4	398.637	wh hex cry	830	1490			s H <sub>2</sub> O
2801	Terbium(III) chloride	TbCl <sub>3</sub>	10042-88-3	265.284	wh orth cry; hyg	582		4.35		s H <sub>2</sub> O
2802	Terbium(III) chloride hexahydrate	TbCl <sub>3</sub> · 6H <sub>2</sub> O	13798-24-8	373.375	hyg cry			4.35		vs H <sub>2</sub> O
2803	Terbium(III) iodide	TbI <sub>3</sub>	13813-40-6	539.638	hex cry; hyg	955		≈5.2		s H <sub>2</sub> O
2804	Terbium(III) nitrate	Tb(NO <sub>3</sub> ) <sub>3</sub>	10043-27-3	344.940	pink hyg solid				157 <sup>25</sup>	s EtOH
2805	Terbium(III) nitrate hexahydrate	Tb(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	13451-19-9	453.031	col needles	89				s H <sub>2</sub> O, EtOH, ace
2806	Terbium(III) oxide	Tb <sub>2</sub> O <sub>3</sub>	12036-41-8	365.849	wh cub cry	2303		7.91		
2807	Terbium(III) sulfate octahydrate	Tb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> · 8H <sub>2</sub> O	13842-67-6	750.161	wh cry	dec 360				sl H <sub>2</sub> O
2808	Terbium(III) sulfide	Tb <sub>2</sub> S <sub>3</sub>	12138-11-3	414.046	cub cry			6.35		
2809	Terbium(III) fluoride	TbF <sub>3</sub>	13708-63-9	215.920	wh solid	1175	2280			i H <sub>2</sub> O
2810	Terbium(IV) fluoride	TbF <sub>4</sub>	36781-15-4	234.919	wh monocl cry	dec 300				i H <sub>2</sub> O
2811	Thallium	Tl	7440-28-0	204.383	soft blue-wh metal	304	1473	11.8		i H <sub>2</sub> O; reac acid
2812	Thallium(I) acetate	TlC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	563-68-8	263.427	hyg wh cry	131		3.68		s H <sub>2</sub> O, EtOH
2813	Thallium(I) azide	TlN <sub>3</sub>	13847-66-0	246.403	yel cry	334	exp			s H <sub>2</sub> O
2814	Thallium(I) bromate	TlBrO <sub>3</sub>	14550-84-6	332.285	col needles	120 dec			0.49 <sup>30</sup>	s EtOH
2815	Thallium(I) bromide	TlBr	7789-40-4	284.287	yel cub cry	460	819	7.5	0.05 <sup>30</sup>	
2816	Thallium(I) carbonate	Tl <sub>2</sub> CO <sub>3</sub>	6533-73-9	468.776	wh monocl cry	273		7.11	4.69 <sup>30</sup>	i EtOH
2817	Thallium(I) chlorate	TlClO <sub>3</sub>	13453-30-0	287.834	col hex cry	dec 500		5.5	3.92 <sup>30</sup>	
2818	Thallium(I) chloride	TlCl	7791-12-0	239.836	wh cub cry	431	720	7.0	0.33 <sup>30</sup>	i EtOH
2819	Thallium(I) chromate	Tl <sub>2</sub> CrO <sub>4</sub>	13473-75-1	524.761	yel cry				0.003 <sup>30</sup>	sl acid, alk
2820	Thallium(I) cyanide	TlCN	13453-34-4	230.401	wh hex plates			6.523		s H <sub>2</sub> O, acid, EtOH
2821	Thallium(I) ethanolate	TlC <sub>2</sub> H <sub>5</sub> O	20398-06-5	249.443	cloudy liq	-3	130 dec	3.49		reac H <sub>2</sub> O
2822	Thallium(I) fluoride	TlF	7789-27-7	223.381	wh orth cry	326	826	8.36	245 <sup>25</sup>	
2823	Thallium(I) formate	TlCHO <sub>2</sub>	992-98-3	249.401	hyg col needles	101		4.97		vs H <sub>2</sub> O; s MeOH
2824	Thallium(I) hexafluorophosphate	TlPF <sub>6</sub>	60969-19-9	349.347	wh cub cry			4.6		
2825	Thallium(I) hydroxide	TlOH	12026-06-1	221.390	yel needles	139 dec		7.44	34.3 <sup>18</sup>	
2826	Thallium(I) iodate	TlIO <sub>3</sub>	14767-09-0	379.285	wh needles			0.058		sl HNO <sub>3</sub>
2827	Thallium(I) iodide	TlI	7790-30-9	331.287	yel cry powder	441.7	824	7.1	0.0085 <sup>30</sup>	i EtOH
2828	Thallium(I) molybdate	Tl <sub>2</sub> MoO <sub>4</sub>	34128-09-1	568.71	yel-wh cub cry					i H <sub>2</sub> O
2829	Thallium(I) nitrate	TlNO <sub>3</sub>	10102-45-1	266.388	wh cry	206	450 dec	5.55	9.55 <sup>30</sup>	s H <sub>2</sub> O; i EtOH
2830	Thallium(I) nitrite	TlNO <sub>2</sub>	13826-63-6	250.389	yel cub cry	186		5.7	32.1 <sup>25</sup>	s H <sub>2</sub> O
2831	Thallium(I) oxalate	Tl <sub>2</sub> C <sub>2</sub> O <sub>4</sub>	30737-24-7	496.786	wh powder			6.31	1.83 <sup>30</sup>	
2832	Thallium(I) oxide	Tl <sub>2</sub> O	1314-12-1	424.766	blk rhomb cry; hyg	579	≈1080	9.52		s H <sub>2</sub> O, EtOH
2833	Thallium(I) perchlorate	TlClO <sub>4</sub>	13453-40-2	303.834	col orth cry	501		4.89	19.7 <sup>30</sup>	
2834	Thallium(I) selenate	Tl <sub>2</sub> SeO <sub>4</sub>	7446-22-2	551.73	orth cry	>400		6.875	2.8 <sup>30</sup>	i EtOH, eth
2835	Thallium(I) selenide	Tl <sub>2</sub> Se	15572-25-5	487.73	gray plates	340				i H <sub>2</sub> O, acid
2836	Thallium(I) sulfate	Tl <sub>2</sub> SO <sub>4</sub>	7446-18-6	504.830	wh rhomb prisms	632		6.77	5.47 <sup>25</sup>	
2837	Thallium(I) sulfide	Tl <sub>2</sub> S	1314-97-2	440.832	blue-blk cry	457	1367	8.39	0.02 <sup>30</sup>	sl alk; s acid
2838	Thallium(III) acetate	Tl(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub>	2570-63-0	381.514	hyg wh platelets	182 dec				
2839	Thallium(III) bromide tetrahydrate	TlBr <sub>3</sub> · 4H <sub>2</sub> O	13701-90-1	516.157	yel orth cry			3.65		s H <sub>2</sub> O, EtOH
2840	Thallium(III) chloride	TlCl <sub>3</sub>	13453-32-2	310.742	monocl cry	155		4.7		vs H <sub>2</sub> O, EtOH, eth
2841	Thallium(III) chloride tetrahydrate	TlCl <sub>3</sub> · 4H <sub>2</sub> O	13453-32-2*	382.804	orth cry			3.00		s H <sub>2</sub> O
2842	Thallium(III) fluoride	TlF <sub>3</sub>	7783-57-5	261.378	wh orth cry; hyg	550 dec		8.65		reac H <sub>2</sub> O
2843	Thallium(III) nitrate	Tl(NO <sub>3</sub> ) <sub>3</sub>	13746-98-0	390.398	col cry					reac H <sub>2</sub> O
2844	Thallium(III) oxide	Tl <sub>2</sub> O <sub>3</sub>	1314-32-5	456.765	brn cub cry	834		10.2		i H <sub>2</sub> O; reac acid
2845	Thallium(III) sulfate	Tl <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	16222-66-5	696.955	col leaflets					reac H <sub>2</sub> O
2846	Thallium selenide	TlSe	12039-52-0	283.34	blk solid	330				i H <sub>2</sub> O, acid
2847	Thorium	Th	7440-29-1	232.038	soft gray-wh metal; cub	1750	4788	11.7		s acid
2848	Thorium hydride	ThH <sub>2</sub>	16689-88-6	234.054	tetr cry			9.5		
2849	Thorium boride	ThB <sub>6</sub>	12229-63-9	296.904	refrac solid	2450		6.99		
2850	Thorium(IV) bromide	ThBr <sub>4</sub>	13453-49-1	551.654	wh hyg cry	679			65 <sup>20</sup>	

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2851	Thorium carbide	ThC	12012-16-7	244.049	cub cry	2500		10.6		reac H <sub>2</sub> O
2852	Thorium dicarbide	ThC <sub>2</sub>	12071-31-7	256.059	yel mono cry	≈2650		9.0		reac H <sub>2</sub> O
2853	Thorium(IV) chloride	ThCl <sub>4</sub>	10026-08-1	373.850	gray-wh tetr needles; hyg	770	921	4.59		s H <sub>2</sub> O, EtOH
2854	Thorium(IV) fluoride	ThF <sub>4</sub>	13709-59-6	308.032	wh mono cry; hyg	1110	1680	6.1		
2855	Thorium(IV) iodide	ThI <sub>4</sub>	7790-49-0	739.656	wh-yel mono cry	566	837			
2856	Thorium(IV) nitrate	Th(NO <sub>3</sub> ) <sub>4</sub>	13823-29-5	480.058	hyg wh plates	55 dec				vs H <sub>2</sub> O, EtOH
2857	Thorium(IV) nitrate tetrahydrate	Th(NO <sub>3</sub> ) <sub>4</sub> · 4H <sub>2</sub> O	13470-07-0	552.119	wh hyg cry	500 dec			191 <sup>20</sup>	s EtOH
2858	Thorium nitride	ThN	12033-65-7	246.045	refrac cub cry	2820		11.6		reac H <sub>2</sub> O
2859	Thorium(IV) oxide	ThO <sub>2</sub>	1314-20-1	264.037	wh cub cry	3350	4400	10.0		i H <sub>2</sub> O, alk; sl acid
2860	Thorium(IV) selenide	ThSe <sub>2</sub>	60763-24-8	389.96	orth cry			8.5		
2861	Thorium orthosilicate	ThSiO <sub>4</sub>	14553-44-7	324.122	brn tetr cry			6.7		
2862	Thorium silicide	ThSi <sub>2</sub>	12067-54-8	288.209	tetr cry	1850		7.9		
2863	Thorium(IV) sulfate nonahydrate	Th(SO <sub>4</sub> ) <sub>2</sub> · 9H <sub>2</sub> O	10381-37-0	586.301	wh mono cry	dec		2.8	4.2 <sup>20</sup>	
2864	Thorium(IV) sulfide	ThS <sub>2</sub>	12138-07-7	296.168	dark brn cry	1905		7.30		i H <sub>2</sub> O; s acid
2865	Thulium	Tm	7440-30-4	168.934	silv metal; hex	1545	1950	9.32		s dil acid
2866	Thulium(II) bromide	TmBr <sub>2</sub>	64171-97-7	328.742	dark grn solid	619				
2867	Thulium(II) chloride	TmCl <sub>2</sub>	22852-11-5	239.840	red or grn cry	718				reac H <sub>2</sub> O
2868	Thulium(II) iodide	TmI <sub>2</sub>	60864-26-8	422.743	blk hyg solid	756				reac H <sub>2</sub> O
2869	Thulium(III) bromide	TmBr <sub>3</sub>	14456-51-0	408.646	wh hyg cry	954				s H <sub>2</sub> O
2870	Thulium(III) chloride	TmCl <sub>3</sub>	13537-18-3	275.293	yel hyg cry	845				s H <sub>2</sub> O
2871	Thulium(III) chloride heptahydrate	TmCl <sub>3</sub> · 7H <sub>2</sub> O	13778-39-7	401.400	hyg cry					s H <sub>2</sub> O, EtOH
2872	Thulium(III) fluoride	TmF <sub>3</sub>	13760-79-7	225.929	wh cry	1158				s H <sub>2</sub> O
2873	Thulium(III) hydroxide	Tm(OH) <sub>3</sub>	1311-33-7	219.956	wh or grn prec					i H <sub>2</sub> O
2874	Thulium(III) iodide	TmI <sub>3</sub>	13813-43-9	549.647	yel hyg cry	1021				
2875	Thulium(III) nitrate	Tm(NO <sub>3</sub> ) <sub>3</sub>	14985-19-4	354.949	grn hyg solid				212 <sup>25</sup>	s EtOH
2876	Thulium(III) nitrate pentahydrate	Tm(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	36548-87-5	445.025	grn hyg cry					s H <sub>2</sub> O, EtOH, ace
2877	Thulium(III) oxalate hexahydrate	Tm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> · 6H <sub>2</sub> O	26677-68-9	710.016	grn solid	dec 50				s alk oxalates
2878	Thulium(III) oxide	Tm <sub>2</sub> O <sub>3</sub>	12036-44-1	385.866	grn-wh cub cry	2341	3945	8.6		sl acid
2879	Tin (gray)	Sn	7440-31-5	118.710	cub cry	trans to wh Sn 13.2	2602	5.769		
2880	Tin (white)	Sn	7440-31-5	118.710	silv tetr cry	231.93	2602	7.287		
2881	Stannane	SnH <sub>4</sub>	2406-52-2	122.742	unstab col gas	-146	-51.8	5.017 g/L		
2882	Methylstannane	SnH <sub>3</sub> CH <sub>3</sub>	1631-78-3	136.769	col gas		1.4	5.590 g/L		reac H <sub>2</sub> O
2883	(Dimethylamino)trimethylstannane	Sn(CH <sub>3</sub> ) <sub>3</sub> N(CH <sub>3</sub> ) <sub>2</sub>	993-50-0	207.890	liq	1	126	1.22		reac H <sub>2</sub> O
2884	Tin monophosphide	SnP	25324-56-5	149.684	dull metallic solid	540				
2885	Tin triphosphide	Sn <sub>3</sub> P <sub>3</sub>	12286-33-8	567.761	wh cry	≈550		5.2		
2886	Tin(II) acetate	Sn(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	638-39-1	236.799	wh orth cry	183	subl	2.31		s dil HCl
2887	Tin(II) bromide	SnBr <sub>2</sub>	10031-24-0	278.518	yel powder	215	639	5.12	85 <sup>0</sup>	s EtOH, eth, ace
2888	Tin(II) chloride	SnCl <sub>2</sub>	7772-99-8	189.616	wh orth cry	247.0	623	3.90	178 <sup>10</sup>	s EtOH, ace, eth; i xyl
2889	Tin(II) chloride dihydrate	SnCl <sub>2</sub> · 2H <sub>2</sub> O	10025-69-1	225.647	wh mono cry	37 dec		2.71	178 <sup>10</sup>	s EtOH, NaOH; vs HCl
2890	Tin(II) fluoride	SnF <sub>2</sub>	7783-47-3	156.707	wh mono cry; hyg	215	850	4.57		s H <sub>2</sub> O; i EtOH, eth, chl
2891	Tin(II) hexafluorozirconate	SnZrF <sub>6</sub>	12419-43-1	323.924	cry			4.21		s H <sub>2</sub> O
2892	Tin(II) hydroxide	Sn(OH) <sub>2</sub>	12026-24-3	152.725	wh amorp solid					
2893	Tin(II) iodide	SnI <sub>2</sub>	10294-70-9	372.519	red-oran powder	320	714	5.28	0.98 <sup>20</sup>	s bz, chl, CS <sub>2</sub>
2894	Tin(II) oxalate	SnC <sub>2</sub> O <sub>4</sub>	814-94-8	206.729	wh powder	280 dec		3.56		i H <sub>2</sub> O; s dil HCl
2895	Tin(II) oxide	SnO	21651-19-4	134.709	blue-blk tetr cry	1080 dec		6.45		i H <sub>2</sub> O, EtOH; s acid
2896	Tin(II) pyrophosphate	Sn <sub>2</sub> P <sub>2</sub> O <sub>7</sub>	15578-26-4	411.363	wh amorp powder	400 dec		4.009		reac H <sub>2</sub> O; s conc acid
2897	Tin(II) selenide	SnSe	1315-06-6	197.67	gray orth cry	861		6.18		i H <sub>2</sub> O; s aqua regia
2898	Tin(II) sulfate	SnSO <sub>4</sub>	7488-55-3	214.773	wh orth cry	378 dec		4.15	18.8 <sup>19</sup>	
2899	Tin(II) sulfide	SnS	1314-95-0	150.775	gray orth cry	881	1210	5.08		i H <sub>2</sub> O; s conc acid
2900	Tin(II) tartrate	SnC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>	815-85-0	266.781	wh cry powder					s H <sub>2</sub> O, dil HCl
2901	Tin(II) telluride	SnTe	12040-02-7	246.31	gray cub cry	806		6.5		
2902	Tin(IV) bromide	SnBr <sub>4</sub>	7789-67-5	438.326	wh cry	29.1	205	3.34		vs H <sub>2</sub> O; s EtOH
2903	Tin(IV) chloride	SnCl <sub>4</sub>	7646-78-8	260.522	col fuming liq	-34.07	114.15	2.234		reac H <sub>2</sub> O; s EtOH, ctc, bz, ace
2904	Tin(IV) chloride pentahydrate	SnCl <sub>4</sub> · 5H <sub>2</sub> O	10026-06-9	350.598	wh-yel cry	56 dec		2.04		vs H <sub>2</sub> O; s EtOH
2905	Tin(IV) chromate	Sn(CrO <sub>4</sub> ) <sub>2</sub>	38455-77-5	350.697	brn-yel cry powder	dec				s H <sub>2</sub> O
2906	Tin(IV) fluoride	SnF <sub>4</sub>	7783-62-2	194.704	wh tetr cry	442	705 subl	4.78		reac H <sub>2</sub> O
2907	Tin(IV) iodide	SnI <sub>4</sub>	7790-47-8	626.328	yel-brn cub cry	143	364.35	4.46		reac H <sub>2</sub> O; s EtOH, bz, chl, eth
2908	Tin(IV) oxide	SnO <sub>2</sub>	18282-10-5	150.709	gray tetr cry	1630		6.85		i H <sub>2</sub> O, EtOH; s hot conc alk
2909	Tin(IV) selenide	SnSe <sub>2</sub>	20770-09-6	276.63	red-brn cry	650		≈5.0		i H <sub>2</sub> O; s alk, conc acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2910	Tin(IV) selenite	Sn(SeO <sub>3</sub> ) <sub>2</sub>	7446-25-5	372.63	cry powder					i H <sub>2</sub> O; s hot HCl
2911	Tin(IV) sulfide	SnS <sub>2</sub>	1315-01-1	182.840	gold-yel hex cry	600 dec		4.5		i H <sub>2</sub> O; s alk, aqua regia
2912	Titanium	Ti	7440-32-6	47.867	gray metal; hex	1668	3287	4.506		
2913	Titanocene dichloride	Ti(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> Cl <sub>2</sub>	1271-19-8	248.959	red cry	289		1.60		sl H <sub>2</sub> O, bz; s chl, EtOH, tol
2914	Titanium hydride	TiH <sub>2</sub>	7704-98-5	49.883	gray-blk powder	≈450 dec		3.75		i H <sub>2</sub> O
2915	Titanium boride	TiB <sub>2</sub>	12045-63-5	69.489	gray refrac solid; hex	3225		4.38		
2916	Titanium carbide	TiC	12070-08-5	59.878	cub cry	3067		4.93		i H <sub>2</sub> O; s HNO <sub>3</sub>
2917	Titanium nitride	TiN	25583-20-4	61.874	yel-brn cub cry	2947		5.21		i H <sub>2</sub> O; s aqua regia
2918	Titanium phosphide	TiP	12037-65-9	78.841	gray hex cry	1990		4.08		
2919	Titanium silicide	TiSi <sub>2</sub>	12039-83-7	104.038	blk orth cry	1500		4.0		i H <sub>2</sub> O, acid, alk; s HF
2920	Titanium(II) bromide	TiBr <sub>2</sub>	13783-04-5	207.675	blk powder	dec 400		4.0		react H <sub>2</sub> O
2921	Titanium(II) chloride	TiCl <sub>2</sub>	10049-06-6	118.773	blk hex cryc	1035	1500	3.13		react H <sub>2</sub> O; s EtOH; i chl, eth
2922	Titanium(II) iodide	TiI <sub>2</sub>	13783-07-8	301.676	blk hex cry	dec 400		5.02		react H <sub>2</sub> O
2923	Titanium(II) oxide	TiO	12137-20-1	63.866	yel cub cry	1770	3227	4.95		
2924	Titanium(II) sulfide	TiS	12039-07-5	79.932	brn hex cry	1927		3.85		i H <sub>2</sub> O; s conc acid
2925	Titanium(III) bromide	TiBr <sub>3</sub>	13135-31-4	287.579	viol hex cry	dec 400				s H <sub>2</sub> O
2926	Titanium(III) chloride	TiCl <sub>3</sub>	7705-07-9	154.226	red-viol hex cry; hyg	425 dec	960	2.64		react H <sub>2</sub> O
2927	Titanium(III) fluoride	TiF <sub>3</sub>	13470-08-1	104.862	viol hex cry	950 dec		2.98		i H <sub>2</sub> O, dil acid, alk
2928	Titanium(III) iodide	TiI <sub>3</sub>	13783-08-9	428.580	viol cry	dec 350				
2929	Titanium(III) oxide	Ti <sub>2</sub> O <sub>3</sub>	1344-54-3	143.732	blk hex cry	1842		4.486		s hot HF
2930	Titanium(III) sulfate	Ti <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	10343-61-0	383.922	grn cry					i H <sub>2</sub> O, EtOH; s dil HCl
2931	Titanium(III) sulfide	Ti <sub>2</sub> S <sub>3</sub>	12039-16-6	191.929	blk hex cry			3.56		
2932	Titanium(III,IV) oxide	Ti <sub>3</sub> O <sub>5</sub>	12065-65-5	223.598	blk monoc cry	1777		4.24		
2933	Titanium(IV) bromide	TiBr <sub>4</sub>	7789-68-6	367.483	yel-oran cub cry; hyg	38.3	233.5	3.37		react H <sub>2</sub> O
2934	Titanium(IV) chloride	TiCl <sub>4</sub>	7550-45-0	189.679	col or yel liq	-24.12	136.45	1.73		react H <sub>2</sub> O; s EtOH
2935	Titanium(IV) fluoride	TiF <sub>4</sub>	7783-63-3	123.861	wh hyg powder	377	subl 284	2.798		react H <sub>2</sub> O; s EtOH, py
2936	Titanium(IV) iodide	TiI <sub>4</sub>	7720-83-4	555.485	red hyg powder	155	377	4.3		react H <sub>2</sub> O
2937	Titanium(IV) oxide (anatase)	TiO <sub>2</sub>	1317-70-0	79.866	brn tetr cry	1560		3.9		
2938	Titanium(IV) oxide (brookite)	TiO <sub>2</sub>	12188-41-9	79.866	wh orth cry			4.17		
2939	Titanium(IV) oxide (rutile)	TiO <sub>2</sub>	1317-80-2	79.866	wh tetr cry	1843	≈3000	4.17		i H <sub>2</sub> O, dil acid; s conc acid
2940	Titanium(IV) oxysulfate monohydrate	TiOSO <sub>4</sub> · H <sub>2</sub> O	13825-74-6*	177.944	col orth cry			2.71		react H <sub>2</sub> O
2941	Titanium(IV) sulfate	Ti(SO <sub>4</sub> ) <sub>2</sub>	13693-11-3	239.992	wh-yel hyg cry	150 dec				s H <sub>2</sub> O
2942	Titanium(IV) sulfide	TiS <sub>2</sub>	12039-13-3	111.997	yel-brn hex cry; hyg			3.37		s H <sub>2</sub> SO <sub>4</sub>
2943	Tungsten	W	7440-33-7	183.84	gray-wh metal; cub	3422	5555	19.3		
2944	Tungstic acid	H <sub>2</sub> WO <sub>4</sub>	7783-03-1	249.85	yel amorp powder	100 dec		5.5		i H <sub>2</sub> O, acid; s alk
2945	Tungsten boride (W <sub>2</sub> B)	W <sub>2</sub> B	12007-10-2	378.49	refrac blk powder	2670		16.0		i H <sub>2</sub> O
2946	Tungsten boride (WB)	WB	12007-09-9	194.65	blk refrac powder	2665		15.2		i H <sub>2</sub> O
2947	Tungsten boride (W <sub>2</sub> B <sub>3</sub> )	W <sub>2</sub> B <sub>3</sub>	12007-98-6	421.74	refrac solid	2370		11.0		i H <sub>2</sub> O
2948	Tungsten carbide (W <sub>2</sub> C)	W <sub>2</sub> C	12070-13-2	379.69	refrac hex cry	≈2800		14.8		i H <sub>2</sub> O
2949	Tungsten carbide (WC)	WC	12070-12-1	195.85	gray hex cry	2785		15.6		i H <sub>2</sub> O; s HNO <sub>3</sub> /HF
2950	Tungsten carbonyl	W(CO) <sub>6</sub>	14040-11-0	351.90	wh cry	170 dec	subl	2.65		i H <sub>2</sub> O; s os
2951	Tungsten nitride (WN <sub>2</sub> )	WN <sub>2</sub>	60922-26-1	211.85	hex cry	600 dec		7.7		
2952	Tungsten nitride (W <sub>2</sub> N)	W <sub>2</sub> N	12033-72-6	381.69	gray cub cry	dec		17.8		
2953	Tungsten silicide (WSi <sub>2</sub> )	WSi <sub>2</sub>	12039-88-2	240.01	blue-gray tetr cry	2160		9.3		i H <sub>2</sub> O
2954	Tungsten silicide (W <sub>5</sub> Si <sub>3</sub> )	W <sub>5</sub> Si <sub>3</sub>	12039-95-1	1003.46	blue-gray refrac solid	2320		14.4		
2955	Tungsten(II) bromide	WBr <sub>2</sub>	13470-10-5	343.65	yel powder	dec 400				i H <sub>2</sub> O
2956	Tungsten(II) chloride	WCl <sub>2</sub>	13470-12-7	254.75	gray solid	dec 500		5.44		sl H <sub>2</sub> O
2957	Tungsten(II) iodide	WI <sub>2</sub>	13470-17-2	437.65	oran-brn cry	dec 800		6.79		i H <sub>2</sub> O
2958	Tungsten(III) bromide	WBr <sub>3</sub>	15163-24-3	423.55	blk hex cry	dec 180				i H <sub>2</sub> O
2959	Tungsten(III) chloride	WCl <sub>3</sub>	20193-56-0	290.20	red solid	550 dec	subl			react H <sub>2</sub> O
2960	Tungsten(III) iodide	WI <sub>3</sub>	15513-69-6	564.55	blk solid	dec r.t.				i H <sub>2</sub> O; s ace; sl EtOH, chl
2961	Tungsten(IV) bromide	WBr <sub>4</sub>	14055-81-3	503.46	blk orth cry		240 subl			react H <sub>2</sub> O
2962	Tungsten(IV) chloride	WCl <sub>4</sub>	13470-13-8	325.65	blk hyg powder	450 dec		4.62		react H <sub>2</sub> O
2963	Tungsten(IV) fluoride	WF <sub>4</sub>	13766-47-7	259.83	red-brn cry	dec 800				react H <sub>2</sub> O; s MeCN; i bz, tol, ctc

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
2964	Tungsten(IV) iodide	WI <sub>4</sub>	14055-84-6	691.46	blk cry	dec				react H <sub>2</sub> O; s EtOH; i eth chl
2965	Tungsten(IV) oxide	WO <sub>2</sub>	12036-22-5	215.84	brn monocl cry	≈1500 dec	1730	10.8		i H <sub>2</sub> O, os
2966	Tungsten(IV) selenide	WSe <sub>2</sub>	12067-46-8	341.76	gray hex cry			9.2		
2967	Tungsten(IV) sulfide	WS <sub>2</sub>	12138-09-9	247.97	gray hex cry	1250 dec		7.6		i H <sub>2</sub> O, HCl, alk
2968	Tungsten(IV) telluride	WTe <sub>2</sub>	12067-76-4	439.04	gray orth cry	1020		9.43		
2969	Tungsten(V) bromide	WBr <sub>5</sub>	13470-11-6	583.36	brn-blk hyg solid	286	333			react H <sub>2</sub> O
2970	Tungsten(V) chloride	WCl <sub>5</sub>	13470-14-9	361.11	blk-grn hyg cry	253	286	3.88		react H <sub>2</sub> O
2971	Tungsten(V) ethanolate	W(C <sub>2</sub> H <sub>5</sub> O) <sub>5</sub>	62571-53-3	409.14	powder		105(0.05 mmHg)			s EtAc
2972	Tungsten(V) fluoride	WF <sub>5</sub>	19357-83-6	278.83	yel solid	dec 20				react H <sub>2</sub> O
2973	Tungsten(V) oxytribromide	WOBBr <sub>3</sub>	20213-56-3	439.55	dark brn tetr cry			≈5.9		
2974	Tungsten(V) oxytrichloride	WOCl <sub>3</sub>	14249-98-0	306.20	grn tetr cry			≈4.6		
2975	Tungsten(VI) bromide	WBr <sub>6</sub>	13701-86-5	663.26	blue-blk cry	309		6.9		react H <sub>2</sub> O
2976	Tungsten(VI) chloride	WCl <sub>6</sub>	13283-01-7	396.56	purp hex cry; hyg	282	337	3.52		react H <sub>2</sub> O; s EtOH, os
2977	Tungsten(VI) dioxydibromide	WO <sub>2</sub> Br <sub>2</sub>	13520-75-7	375.65	red cry		440 subl			
2978	Tungsten(VI) dioxydichloride	WO <sub>2</sub> Cl <sub>2</sub>	13520-76-8	286.75	yel orth cry	265		4.67		i H <sub>2</sub> O
2979	Tungsten(VI) dioxydiiodide	WO <sub>2</sub> I <sub>2</sub>	14447-89-3	469.65	grn monocl cry	400 dec		6.39		
2980	Tungsten(VI) fluoride	WF <sub>6</sub>	7783-82-6	297.83	yel liq or col gas	1.9	17.1	3.44		react H <sub>2</sub> O; vs ctc, cyhex
2981	Tungsten(VI) oxide	WO <sub>3</sub>	1314-35-8	231.84	yel powder	1473	≈1700	7.2		i H <sub>2</sub> O, os; sl acid; s alk
2982	Tungsten(VI) oxytetrabromide	WOBBr <sub>4</sub>	13520-77-9	519.46	red tetr cry	277	327	≈5.5		react H <sub>2</sub> O
2983	Tungsten(VI) oxytetrachloride	WOCl <sub>4</sub>	13520-78-0	341.65	red hyg cry	210	230	11.92		react H <sub>2</sub> O; s bz, CS <sub>2</sub>
2984	Tungsten(VI) oxytetrafluoride	WOF <sub>4</sub>	13520-79-1	275.83	wh monocl cry	105	185.9	5.07		react H <sub>2</sub> O
2985	Tungsten(VI) sulfide	WS <sub>3</sub>	12125-19-8	280.04	brn powder					sl H <sub>2</sub> O; s alk
2986	Uranium	U	7440-61-1	238.029	silv-wh orth cry	1135	4131	19.1		
2987	Uranium boride (UB <sub>2</sub> )	UB <sub>2</sub>	12007-36-2	259.651	refrac solid	2430		12.7		
2988	Uranium boride (UB <sub>3</sub> )	UB <sub>3</sub>	12007-84-0	281.273	refrac solid	2530		9.32		i H <sub>2</sub> O
2989	Uranium carbide (UC)	UC	12070-09-6	250.040	gray cub cry	2790				
2990	Uranium carbide (UC <sub>2</sub> )	UC <sub>2</sub>	12071-33-9	262.050	gray tetr cry	2350	4370	11.3		react H <sub>2</sub> O; sl EtOH
2991	Uranium carbide (U <sub>2</sub> C <sub>3</sub> )	U <sub>2</sub> C <sub>3</sub>	12076-62-9	512.090	gray cub cry	≈1700 dec		12.7		
2992	Uranium nitride (UN)	UN	25658-43-9	252.036	gray cub cry	2805		14.3		i H <sub>2</sub> O
2993	Uranium nitride (U <sub>2</sub> N <sub>3</sub> )	U <sub>2</sub> N <sub>3</sub>	12033-83-9	518.078	cub cry	dec		11.3		
2994	Uranium(III) bromide	UBr <sub>3</sub>	13470-19-4	477.741	red hyg cry	727				s H <sub>2</sub> O
2995	Uranium(III) chloride	UCl <sub>3</sub>	10025-93-1	344.388	grn hyg cry	837		5.51		vs H <sub>2</sub> O; i bz, ctc
2996	Uranium(III) fluoride	UF <sub>3</sub>	13775-06-9	295.024	blk hex cry	1495		8.9		i H <sub>2</sub> O; s acid
2997	Uranium(III) hydride	UH <sub>3</sub>	13598-56-6	241.053	gray-blk cub cry			11.1		
2998	Uranium(III) iodide	UI <sub>3</sub>	13775-18-3	618.742	blk hyg cry	766				s H <sub>2</sub> O
2999	Uranium(IV) bromide	UBr <sub>4</sub>	13470-20-7	557.645	brn hyg cry	519				s H <sub>2</sub> O, EtOH
3000	Uranium(IV) chloride	UCl <sub>4</sub>	10026-10-5	379.841	grn octahed cry	590	791	4.72		react H <sub>2</sub> O; s EtOH
3001	Uranium(IV) fluoride	UF <sub>4</sub>	10049-14-6	314.023	grn monocl cry	1036	1417	6.7	0.01 <sup>25</sup>	s conc acid, alk
3002	Uranium(IV) iodide	UI <sub>4</sub>	13470-22-9	745.647	blk hyg cry	506				s H <sub>2</sub> O, EtOH
3003	Uranium(IV) oxide	UO <sub>2</sub>	1344-57-6	270.028	brn cub cry	2847		10.97		i H <sub>2</sub> O, dil acid; s conc acid
3004	Uranium(IV,V) oxide	U <sub>4</sub> O <sub>9</sub>	12037-15-9	1096.111	cub cry			11.2		
3005	Uranium(V) bromide	UBr <sub>5</sub>	13775-16-1	637.549	brn hyg cry					react H <sub>2</sub> O
3006	Uranium(V) chloride	UCl <sub>5</sub>	13470-21-8	415.294	brn hyg cry	287				react H <sub>2</sub> O
3007	Uranium(V) fluoride	UF <sub>5</sub>	13775-07-0	333.021	pale blue tetr cry; hyg	348		5.81		s H <sub>2</sub> O
3008	Uranium(V,VI) oxide	U <sub>3</sub> O <sub>8</sub>	1344-59-8	842.082	grn-blk orth cry	1300 dec		8.38		
3009	Uranium(VI) chloride	UCl <sub>6</sub>	13763-23-0	450.747	grn hex cry	177		3.6		
3010	Uranium(VI) fluoride	UF <sub>6</sub>	7783-81-5	352.019	wh monocl solid	64.06 tp	56.5 sp	5.09		react H <sub>2</sub> O; s ctc, chl
3011	Uranium(VI) oxide	UO <sub>3</sub>	1344-59-7	286.027	oran-yel cry			≈7.3		i H <sub>2</sub> O; s acid
3012	Uranium(VI) oxide monohydrate	UO <sub>3</sub> · H <sub>2</sub> O	12326-21-5	304.043	yel orth cry	570 dec		7.05		
3013	Uranium peroxide dihydrate	UO <sub>4</sub> · 2H <sub>2</sub> O	19525-15-6	338.057	yel hyg cry	115 dec				i H <sub>2</sub> O
3014	Uranyl acetate dihydrate	UO <sub>2</sub> (C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 2H <sub>2</sub> O	6159-44-0	424.146	ye cry (HOAc)	80 dec		2.89		sl EtOH
3015	Uranyl chloride	UO <sub>2</sub> Cl <sub>2</sub>	7791-26-6	340.934	yel orth cry; hyg	577				vs H <sub>2</sub> O; s EtOH, ace; i bz
3016	Uranyl fluoride	UO <sub>2</sub> F <sub>2</sub>	13536-84-0	308.025	yel hyg solid				64.4 <sup>20</sup>	i bz
3017	Uranyl hydrogen phosphate tetrahydrate	UO <sub>2</sub> HPO <sub>4</sub> · 4H <sub>2</sub> O	18433-48-2	438.068	yel cry pow					i H <sub>2</sub> O; s acid
3018	Uranyl nitrate	UO <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub>	10102-06-4	394.037	yel cry				127 <sup>25</sup>	s eth
3019	Uranyl nitrate hexahydrate	UO <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O	13520-83-7	502.129	yel orth cry; hyg	60	118 dec	2.81	127 <sup>25</sup>	s EtOH, eth
3020	Uranyl sulfate	UO <sub>2</sub> SO <sub>4</sub>	1314-64-3	366.090	yel cry					
3021	Uranyl sulfate trihydrate	UO <sub>2</sub> SO <sub>4</sub> · 3H <sub>2</sub> O	20910-28-5	420.137	yel cry			3.28	152 <sup>16</sup>	sl EtOH
3022	Vanadium	V	7440-62-2	50.942	gray-wh metal; cub	1910	3407	6.0		i H <sub>2</sub> O; s acid

No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
3023	Vanadocene	V(C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub>	1277-47-0	181.128	viol cry; hyg	167				s bz, thf
3024	Vanadocene dichloride	V(C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> Cl <sub>2</sub>	12083-48-6	252.034	dark grn cry	205 dec				s H <sub>2</sub> O, chl, EtOH
3025	Vanadium boride (VB)	VB	12045-27-1	61.753	refrac solid	2250				i H <sub>2</sub> O
3026	Vanadium boride (VB <sub>2</sub> )	VB <sub>2</sub>	12007-37-3	72.564	refrac solid	2450				
3027	Vanadium carbide (VC)	VC	12070-10-9	62.953	refrac blk cry; cub	2810		5.77		i H <sub>2</sub> O
3028	Vanadium carbide (V <sub>2</sub> C)	V <sub>2</sub> C	12012-17-8	113.894	hex cry	2167				
3029	Vanadium carbonyl	V(CO) <sub>5</sub>	14024-00-1	219.002	blue-grn cry; flam	60 dec	subl			
3030	Vanadium nitride	VN	24646-85-3	64.949	blk powder; cub	2050		6.13		i H <sub>2</sub> O; s aqua regia
3031	Vanadium silicide (VSi <sub>2</sub> )	VSi <sub>2</sub>	12039-87-1	107.113	metallic prisms			4.42		s HF
3032	Vanadium silicide (V <sub>3</sub> Si)	V <sub>3</sub> Si	12039-76-8	180.911	cub cry	1935		5.70		
3033	Vanadium(II) bromide	VBr <sub>2</sub>	14890-41-6	210.750	oran-brn hex cry		800 subl	4.58		react H <sub>2</sub> O
3034	Vanadium(II) chloride	VCl <sub>2</sub>	10580-52-6	121.848	grn hex plates	1350	910 subl	3.23		react H <sub>2</sub> O; s EtOH, eth
3035	Vanadium(II) fluoride	VF <sub>2</sub>	13842-80-3	88.939	blue hyg cry	1490				react H <sub>2</sub> O
3036	Vanadium(II) iodide	VI <sub>2</sub>	15513-84-5	304.751	red-viol hex cry		subl 800	5.44		react H <sub>2</sub> O
3037	Vanadium(II) oxide	VO	12035-98-2	66.941	gray-blk cry	1790		5.758		s acid
3038	Vanadium(II) sulfate heptahydrate	VSO <sub>4</sub> · 7H <sub>2</sub> O	36907-42-3	273.111	viol cry					
3039	Vanadium(III) bromide	VBr <sub>3</sub>	13470-26-3	290.654	blk-grn hyg cry	dec 500	subl	4.00		react H <sub>2</sub> O
3040	Vanadium(III) chloride	VCl <sub>3</sub>	7718-98-1	157.301	red-viol hex cry; hyg	500 dec		3.00		react H <sub>2</sub> O; s EtOH, eth
3041	Vanadium(III) fluoride	VF <sub>3</sub>	10049-12-4	107.937	yel-grn hex cry	1395	subl	3.363		i H <sub>2</sub> O, EtOH
3042	Vanadium(III) fluoride trihydrate	VF <sub>3</sub> · 3H <sub>2</sub> O	10049-12-4*	161.983	grn rhomb cry	≈100 dec				sl H <sub>2</sub> O
3043	Vanadium(III) iodide	VI <sub>3</sub>	15513-94-7	431.655	brn-blk rhomb cry; hyg	dec 300		5.21		react H <sub>2</sub> O
3044	Vanadium(III) oxide	V <sub>2</sub> O <sub>3</sub>	1314-34-7	149.881	blk powder	1957	≈3000	4.87		i H <sub>2</sub> O
3045	Vanadium(III) 2,4-pentanedioate	V(CH <sub>3</sub> COCHCOCH <sub>3</sub> ) <sub>3</sub>	13476-99-8	348.266	brn cry	≈185	subl	≈1.0		s MeOH, ace, bz chl
3046	Vanadium(III) sulfate	V <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	13701-70-7	390.071	yel powder	≈400 dec				sl H <sub>2</sub> O
3047	Vanadium(III) sulfide	V <sub>2</sub> S <sub>3</sub>	1315-03-3	198.078	grn-blk powder	dec		4.7		i H <sub>2</sub> O; s hot HCl
3048	Vanadium(IV) bromide	VBr <sub>4</sub>	13595-30-7	370.558	unstab purp cry	-23 dec				
3049	Vanadium(IV) chloride	VCl <sub>4</sub>	7632-51-1	192.754	red-brn liq	-28	151	1.816		react H <sub>2</sub> O; s EtOH, eth
3050	Vanadium(IV) fluoride	VF <sub>4</sub>	10049-16-8	126.936	grn hyg powder	325 dec	subl	3.15		vs H <sub>2</sub> O
3051	Vanadium(IV) oxide	VO <sub>2</sub>	12036-21-4	82.941	blue-blk powder	1967		4.339		i H <sub>2</sub> O; s acid, alk
3052	Vanadium(V) fluoride	VF <sub>5</sub>	7783-72-4	145.934	col liq	19.5	48.3	2.50		react H <sub>2</sub> O
3053	Vanadium(V) dioxide fluoride	VO <sub>2</sub> F	14259-82-6	101.939	brn hyg cry	350 dec				react H <sub>2</sub> O
3054	Vanadium(V) dioxide chloride	VO <sub>2</sub> Cl	13759-30-3	118.394	oran hyg cry	dec 180				s thf
3055	Vanadium(V) oxide	V <sub>2</sub> O <sub>5</sub>	1314-62-1	181.880	yel-brn orth cry	681	1750	3.35	0.07 <sup>25</sup>	s conc acid, alk; i EtOH
3056	Vanadium(V) sulfide	V <sub>2</sub> S <sub>5</sub>	12138-17-9	262.208	grn-blk pow	dec		3.0		i H <sub>2</sub> O; s acid, alk
3057	Vanadyl bromide	VOBr	13520-88-2	146.845	viol cry	480 dec				
3058	Vanadyl chloride	VOCl	13520-87-1	102.394	brn orth cry		127	1.72		
3059	Vanadyl dibromide	VOBr <sub>2</sub>	13520-89-3	226.749	yel-brn cry	180 dec				
3060	Vanadyl dichloride	VOCl <sub>2</sub>	10213-09-9	137.847	grn hyg cry	380 dec		2.88		react H <sub>2</sub> O; s EtOH
3061	Vanadyl difluoride	VOF <sub>2</sub>	13814-83-0	104.938	yel cry					
3062	Vanadyl selenite hydrate	VSeO <sub>3</sub> · H <sub>2</sub> O	133578-89-9	211.92	grn tricl plates			3.506		
3063	Vanadyl sulfate dihydrate	VOSO <sub>4</sub> · 2H <sub>2</sub> O	27774-13-6	199.035	blue cry powder					s H <sub>2</sub> O
3064	Vanadyl tribromide	VOBr <sub>3</sub>	13520-90-6	306.653	deep red liq	-59	170			react H <sub>2</sub> O
3065	Vanadyl trichloride	VOCl <sub>3</sub>	7727-18-6	173.300	fuming red-yel liq	-79	127	1.829		react H <sub>2</sub> O; s MeOH, eth, ace
3066	Vanadyl trifluoride	VOF <sub>3</sub>	13709-31-4	123.936	yel hyg powder	300	480	2.459		react H <sub>2</sub> O
3067	Water	H <sub>2</sub> O	7732-18-5	18.015	col liq	0.00	99.974	0.9970 <sup>25</sup>		vs EtOH, MeOH, ace
3068	Water-d <sub>2</sub>	D <sub>2</sub> O	7789-20-0	20.027	col liq	3.82	101.42	1.1044 <sup>25</sup>		
3069	Water-t <sub>2</sub>	T <sub>2</sub> O	14940-65-9	22.032	col liq	4.48	101.51	1.2138 <sup>25</sup>		
3070	Xenon	Xe	7440-63-3	131.293	col gas	-111.745 tp (81.6 kPa)	-108.09	5.366 g/L		sl H <sub>2</sub> O
3071	Xenon trioxide	XeO <sub>3</sub>	13776-58-4	179.291	col orth cry	exp ≈25		4.55		s H <sub>2</sub> O
3072	Xenon tetroxide	XeO <sub>4</sub>	12340-14-6	195.291	yel solid or col gas; exp	-35.9	≈0 dec			
3073	Xenon difluoride	XeF <sub>2</sub>	13709-36-9	169.290	col tetr cry	129.03 tp	114.35 sp	4.32		sl H <sub>2</sub> O
3074	Xenon tetrafluoride	XeF <sub>4</sub>	13709-61-0	207.287	col monoel cry	117.10 tp	115.75 sp	4.04		react H <sub>2</sub> O
3075	Xenon hexafluoride	XeF <sub>6</sub>	13693-09-9	245.283	col monoel cry	49.48	75.6	3.56		react H <sub>2</sub> O
3076	Xenon fluoride oxide	XeOF <sub>2</sub>	13780-64-8	185.289	yel solid, stab <-25	exp ≈0				react H <sub>2</sub> O
3077	Xenon oxytetrafluoride	XeOF <sub>4</sub>	13774-85-1	223.286	col liq	-46.2		3.17 <sup>9</sup>		react H <sub>2</sub> O
3078	Xenon dioxide difluoride	XeO <sub>2</sub> F <sub>2</sub>	13875-06-4	201.289	col orth cry	30.8 exp		4.10		
3079	Xenon difluoride trioxide	XeO <sub>3</sub> F <sub>2</sub>	15192-14-0	217.288	unstab at r.t.	-54.1	exp			
3080	Xenon pentafluoride hexafluoroarsenate	XeF <sub>5</sub> AsF <sub>6</sub>	20328-94-3	415.197	wh monoel cry	130.5		3.51		







No.	Name	Formula	CAS Reg No.	Mol. weight	Physical form	mp/°C	bp/°C	Density g cm <sup>-3</sup>	Solubility g/100 g H <sub>2</sub> O	Qualitative solubility
3195	Zirconium(II) bromide	ZrBr <sub>2</sub>	24621-17-8	251.032	blue-blk cry	dec 400				
3196	Zirconium(II) chloride	ZrCl <sub>2</sub>	13762-26-0	162.130	blk cry	772		3.16		reac H <sub>2</sub> O
3197	Zirconium(II) fluoride	ZrF <sub>2</sub>	13842-94-9	129.221	blk cry	902				
3198	Zirconium(II) hydride	ZrH <sub>2</sub>	7704-99-6	93.240	gray tetr cry	800 dec		5.6		i H <sub>2</sub> O
3199	Zirconium(II) iodide	ZrI <sub>2</sub>	15513-85-6	345.033	blk cry	827				
3200	Zirconium(III) bromide	ZrBr <sub>3</sub>	24621-18-9	330.936	dark blue cry	dec 300				
3201	Zirconium(III) chloride	ZrCl <sub>3</sub>	10241-03-9	197.583	dark blue cry	627		3.05		reac H <sub>2</sub> O
3202	Zirconium(III) fluoride	ZrF <sub>3</sub>	13814-22-7	148.219	blue-grn cry	927		4.26		i H <sub>2</sub> O; s acid
3203	Zirconium(III) iodide	ZrI <sub>3</sub>	13779-87-8	471.937	dark blue cry	727				
3204	Zirconium(IV) acetate hydroxide	Zr(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> (OH) <sub>2</sub>	14311-93-4	243.327	wh amorp solid					s H <sub>2</sub> O
3205	Zirconium(IV) ammonium carbonate dihydrate	Zr(NH <sub>4</sub> ) <sub>3</sub> OH(CO <sub>3</sub> ) <sub>3</sub> · 2H <sub>2</sub> O	12616-24-9*	362.404	prisms; unstab					s H <sub>2</sub> O
3206	Zirconium(IV) bromide	ZrBr <sub>4</sub>	13777-25-8	410.840	wh cub cry	450 tp	360 sp	3.98		reac H <sub>2</sub> O
3207	Zirconium(IV) chloride	ZrCl <sub>4</sub>	10026-11-6	233.036	wh monocl cry; hyg	437 tp	331 sp	2.80		reac H <sub>2</sub> O; s EtOH, eth
3208	Zirconium(IV) fluoride	ZrF <sub>4</sub>	7783-64-4	167.218	wh monocl cry	910	912 sp	4.43	1.5 <sup>25</sup>	
3209	Zirconium(IV) hydroxide	Zr(OH) <sub>4</sub>	14475-63-9	159.254	wh amorp powder	dec		3.25		i H <sub>2</sub> O; s acid
3210	Zirconium(IV) iodide	ZrI <sub>4</sub>	13986-26-0	598.842	yel-oran cub cry	500	431 sp	4.85		vs H <sub>2</sub> O
3211	Zirconium(IV) nitrate pentahydrate	Zr(NO <sub>3</sub> ) <sub>4</sub> · 5H <sub>2</sub> O	13746-89-9	429.320	wh hyg cry	100 dec				vs H <sub>2</sub> O; s EtOH
3212	Zirconium(IV) orthosilicate	ZrSiO <sub>4</sub>	10101-52-7	183.308	wh tetr cry	1540 dec		4.6		i H <sub>2</sub> O; acid
3213	Zirconium(IV) oxide	ZrO <sub>2</sub>	1314-23-4	123.223	wh amorp powder	2710	4300	5.68		i H <sub>2</sub> O; sl acid
3214	Zirconium(IV) pyrophosphate	ZrP <sub>2</sub> O <sub>7</sub>	13565-97-4	265.167	wh refrac solid	dec 1550				i H <sub>2</sub> O, dil acid; s HF
3215	Zirconium(IV) sulfate	Zr(SO <sub>4</sub> ) <sub>2</sub>	14644-61-2	283.349	wh hyg cry	410 dec		3.22		s H <sub>2</sub> O; sl EtOH
3216	Zirconium(IV) sulfate tetrahydrate	Zr(SO <sub>4</sub> ) <sub>2</sub> · 4H <sub>2</sub> O	7446-31-3	355.411	wh tetr cry	100 dec		2.80		vs H <sub>2</sub> O
3217	Zirconium(IV) sulfide	ZrS <sub>2</sub>	12039-15-5	155.354	red-brn hex cry	1550		3.87		i H <sub>2</sub> O
3218	Zirconium(IV) tungstate	Zr(WO <sub>4</sub> ) <sub>2</sub>	16853-74-0	586.90	grn pow					
3219	Zirconyl chloride	ZrOCl <sub>2</sub>	7699-43-6	178.129	wh solid	250 dec				s H <sub>2</sub> O, EtOH
3220	Zirconyl chloride octahydrate	ZrOCl <sub>2</sub> · 8H <sub>2</sub> O	13520-92-8	322.252	tetr cry	400 dec		1.91		vs H <sub>2</sub> O, EtOH