

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. The information given here applies to the most stable or common crystalline form. In cases where two or more forms are of practical importance, 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 in order 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 AlCl_3 , even though a more accurate representation of the structure in the solid phase (and, under some conditions, in the gas phase) is Al_2Cl_6 . A few exceptions are made, such as the use of 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 1997 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, and the result is rounded to the nearest integer.
- **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 at which 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 as 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 g 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

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

LIST OF ABBREVIATIONS

Ac	acetyl	brn	brown	dec	decomposes
ace	acetone	bz	benzene	dil	dilute
acid	acid solutions	chl	chloroform	diox	dioxane
alk	alkaline solutions	col	colorless	eth	ethyl ether
amor ^p	amorphous	conc	concentrated	EtOH	ethanol
anh	anhydrous	cry	crystals, crystalline	exp	explodes, explosive
aq	aqueous	cub	cubic	flam	flammable
blk	black	cyhex	cyclohexane	gl	glass, glassy

PHYSICAL CONSTANTS OF INORGANIC COMPOUNDS (CONTINUED)

LIST OF ABBREVIATIONS (CONTINUED)

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

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No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1	Actinium	Ac	7440-34-8	227	silv metal; cub	1051	3198	10		
2	Actinium bromide	AcBr ₃	33689-81-5	467	wh hex cry		800 subl	5.85		s H ₂ O
3	Actinium chloride	AcCl ₃	22986-54-5	333	wh hex cry		960 subl	4.81		
4	Actinium fluoride	AcF ₃	33689-80-4	284	wh hex cry			7.88		i H ₂ O
5	Actinium iodide	AcI ₃	33689-82-6	608	wh cry					s H ₂ O
6	Actinium oxide	Ac ₂ O ₃	12002-61-8	502	wh hex cry	1977		9.19		i H ₂ O
7	Aluminum	Al	7429-90-5	26.982	silv-wh metal; cub cry	660.32	2519	2.70		i H ₂ O; s acid, alk
8	Aluminum ammonium sulfate	AlNH ₄ (SO ₄) ₂	7784-25-0	237.148	wh powder					sl H ₂ O; i EtOH
9	Aluminum ammonium sulfate dodecahydrate	AlNH ₄ (SO ₄) ₂ · 12H ₂ O	7784-26-1	453.331	col cry or powder	94.5	>280 dec	1.65		s H ₂ O; i EtOH
10	Aluminum antimonide	AlSb	25152-52-7	148.742	cub cry	1065		4.26		
11	Aluminum arsenide	AlAs	22831-42-1	101.903	oran cub cry; hyg	1740		3.76		
12	Aluminum borate	2Al ₂ O ₃ · B ₂ O ₃	11121-16-7	273.543	needles	≈1050				i H ₂ O
13	Aluminum boride	AlB ₂	12041-50-8	48.604	powder	>920 dec		3.19		s dil HCl
14	Aluminum borohydride	Al(BH ₄) ₃	16962-07-5	71.510	flam liq	-64.5	44.5			reac H ₂ O
15	Aluminum bromate nonahydrate	Al(BrO ₃) ₃ · 9H ₂ O	11126-81-1*	572.826	wh hyg cry	62	>100 dec			s H ₂ O
16	Aluminum bromide	AlBr ₃	7727-15-3	266.694	wh-yel monoc cry; hyg	97.5	255	3.2		reac H ₂ O; s bz, tol
17	Aluminum bromide hexahydrate	AlBr ₃ · 6H ₂ O	7784-11-4	374.785	col-yel hyg cry	93		2.54		s H ₂ O, EtOH, CS ₂
18	Aluminum carbide	Al ₄ C ₃	1299-86-1	143.958	yel hex cry	2100	>2200 dec	2.36		reac H ₂ O
19	Aluminum chlorate nonahydrate	Al(ClO ₃) ₃ · 9H ₂ O	15477-33-5	439.472	hyg cry					vs H ₂ O; s EtOH
20	Aluminum chloride	AlCl ₃	7446-70-0	133.340	wh hex cry or powder; hyg	192.6	180 sp	2.48	45.1 ²⁵	s bz, ctc, chl
21	Aluminum chloride hexahydrate	AlCl ₃ · 6H ₂ O	7784-13-6	241.431	col hyg cry	100 dec		2.398	45.1 ²⁵	s EtOH, eth
22	Aluminum diacetate	Al(OH)(C ₂ H ₃ O ₂) ₂	142-03-0	162.078	wh amorp powder					i H ₂ O
23	Aluminum ethanolate	Al(C ₂ H ₅ O) ₃	555-75-9	162.163	liq, condenses to wh solid	140				reac H ₂ O; sl xyl
24	Aluminum fluoride	AlF ₃	7784-18-1	83.977	wh hex cry	≈2250 tp (220 MPa)	1276 sp	3.10	0.50 ²⁵	
25	Aluminum fluoride monohydrate	AlF ₃ · H ₂ O	32287-65-3	101.992	orth cry			2.17	0.50 ²⁵	
26	Aluminum fluoride trihydrate	AlF ₃ · 3H ₂ O	15098-87-0	138.023	wh hyg cry			1.914	0.50 ²⁵	
27	Aluminum hexafluorosilicate nonahydrate	Al ₂ (SiF ₆) ₃ · 9H ₂ O	17099-70-6	642.329	hex prisms	>500 dec				s H ₂ O
28	Aluminum hydride	AlH ₃	7784-21-6	30.006	col hex cry	>150 dec				reac H ₂ O
29	Aluminum hydroxide	Al(OH) ₃	21645-51-2	78.004	wh amorp powder			2.42		i H ₂ O; s alk, acid
30	Aluminum hydroxychloride	Al ₂ (OH) ₂ Cl · 2H ₂ O	1327-41-9	210.483	gl solid					s H ₂ O
31	Aluminum hypophosphite	Al(H ₂ PO ₂) ₃	7784-22-7	221.948	cry powder	220 dec				i H ₂ O; s alk, acid
32	Aluminum iodide	AlI ₃	7784-23-8	407.695	wh leaflets	188.28	382	3.98		reac H ₂ O
33	Aluminum iodide hexahydrate	AlI ₃ · 6H ₂ O	10090-53-6	515.786	yel hyg cry powder					vs H ₂ O; s EtOH, eth
34	Aluminum lactate	Al(C ₃ H ₅ O ₃) ₃	18917-91-4	294.192	powder					vs H ₂ O
35	Aluminum nitrate	Al(NO ₃) ₃	13473-90-0	212.997	wh hyg solid	dec			68.9 ²⁵	vs EtOH; sl ace
36	Aluminum nitrate nonahydrate	Al(NO ₃) ₃ · 9H ₂ O	7784-27-2	375.134	wh hyg mono cry	73	135 dec	1.72	68.9 ²⁵	vs EtOH; i pyr
37	Aluminum nitride	AlN	24304-00-5	40.989	blue-wh hex cry	3000		3.255		reac H ₂ O
38	Aluminum oleate	Al(C ₁₈ H ₃₃ O ₂) ₃	688-37-9	871.342	yel solid					i H ₂ O; s EtOH, bz
39	Aluminum phosphate	AlPO ₄	7784-30-7	121.953	wh rhomb plates	>1460		2.56		i H ₂ O; sl acid
40	Aluminum metaphosphate	Al(PO ₃) ₃	32823-06-6	263.898	col powder; tetr	≈1525		2.78		i H ₂ O
41	Aluminum oxide (corundum)	Al ₂ O ₃	1344-28-1	101.961	wh powder; hex	2053	≈3000	3.97		i H ₂ O; os; sl alk
42	Aluminum oxyhydroxide	AlO(OH)	14457-84-2	59.989	ortho cry			3.44		i H ₂ O; s acid, alk
43	Aluminum palmitate	Al(C ₁₅ H ₃₁ COO) ₃	555-35-1	793.230	wh-yel powder					i H ₂ O, EtOH; s peth
44	Aluminum perchlorate nonahydrate	Al(ClO ₄) ₃ · 9H ₂ O	14452-39-2	487.470	wh hyg cry	82 dec		2.0	182.4 ⁹	
45	Aluminum phosphide	AlP	20859-73-8	57.956	grn or yel cub cry	2550		2.40		reac H ₂ O

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
46	Aluminum selenide	Al ₂ Se ₃	1302-82-5	290.84	yel-brown powder	960		3.437		reac H ₂ O
47	Aluminum silicate	Al ₂ SiO ₅	12183-80-1	162.046	gray-grn cry			3.145		
48	Aluminum silicate dihydrate	Al ₂ O ₃ · 2SiO ₂ · 2H ₂ O	1332-58-7	258.161	wh-yel powder; tricl			2.59		i H ₂ O, acid, alk
49	Aluminum stearate	Al(C ₁₈ H ₃₅ O ₂) ₃	637-12-7	877.390	wh powder	115		1.070		i H ₂ O, EtOH, eth; s alk
50	Aluminum sulfate	Al ₂ (SO ₄) ₃	10043-01-3	342.154	wh cry	1040 dec			38.5 ²⁵	i EtOH
51	Aluminum sulfate octadecahydrate	Al ₂ (SO ₄) ₃ · 18H ₂ O	7784-31-8	666.429	col monocl cry	86 dec		1.69	38.5 ²⁵	
52	Aluminum sulfide	Al ₂ S ₃	1302-81-4	150.161	yel-gray powder	1100		2.02		
53	Aluminum telluride	Al ₂ Te ₃	12043-29-7	436.76	gray-blk hex cry	≈895		4.5		
54	Aluminum thiocyanate	Al(SCN) ₃	538-17-0	201.232	yel powder					s H ₂ O; i EtOH, eth
55	Americium	Am	7440-35-9	243	silv metal; hex or cub	1176	2011	12		s acid
56	Americium(III) oxide	Am ₂ O ₃	12254-64-7	534	tan hex cry			11.77		s acid
57	Americium(III) bromide	AmBr ₃	14933-38-1	483	wh orth cry			6.85		s H ₂ O
58	Americium(III) chloride	AmCl ₃	13464-46-5	349	pink hex cry	500		5.87		
59	Americium(III) fluoride	AmF ₃	13708-80-0	300	pink hex cry	1393		9.53		
60	Americium(III) iodide	AmI ₃	13813-47-3	624	yel ortho cry	≈950		6.9		
61	Americium(IV) fluoride	AmF ₄	15947-41-8	319	tan monocl cry			7.23		
62	Americium(IV) oxide	AmO ₂	12005-67-3	275	blk cub cry	>1000 dec		11.68		s acid
63	Ammonia	NH ₃	7664-41-7	17.031	col gas	-77.73	-33.33	0.696 g/L		vs H ₂ O; s EtOH, eth
64	Ammonium acetate	NH ₄ C ₂ H ₃ O ₂	631-61-8	77.083	wh hyg cry	114		1.073	148 ⁴	s EtOH; sl ace
65	Ammonium azide	NH ₄ N ₃	12164-94-2	60.059	ortho cry; flam	160	exp	1.346	20.2 ³⁰	
66	Ammonium benzoate	NH ₄ C ₇ H ₅ O ₂	1863-63-4	139.152	wh cry or powder	198		1.26		s H ₂ O; sl EtOH
67	Ammonium hydrogen malate	NH ₄ C ₄ H ₄ O ₅	5972-71-4	151.118	ortho cry	160		1.15		s H ₂ O; sl EtOH
68	Ammonium borate tetrahydrate	(NH ₄) ₂ B ₄ O ₇ · 4H ₂ O	12228-87-4	263.377	tetr cry					s H ₂ O; i EtOH
69	Ammonium bromate	NH ₄ BrO ₃	13843-59-9	145.941	col hex cry	exp				vs H ₂ O
70	Ammonium bromide	NH ₄ Br	12124-97-9	97.943	wh hyg tetr cry	542 dec	396 sp	2.429	78.3 ²⁵	s EtOH, ace; sl eth
71	Ammonium caprylate	NH ₄ C ₈ H ₁₅ O ₂	5972-76-9	161.243	hyg monocl cry	≈75				reac H ₂ O; s EtOH; i chl, bz
72	Ammonium carbamate	NH ₂ COONH ₄	1111-78-0	78.071	cry powder					vs H ₂ O; s EtOH
73	Ammonium carbonate	(NH ₄) ₂ CO ₃	506-87-6	96.086	col cry powder	58 dec			100 ¹⁵	
74	Ammonium cerium(III) sulfate tetrahydrate	NH ₄ Ce(SO ₄) ₂ · 4H ₂ O	21995-38-0*	422.343	monocl cry					s H ₂ O
75	Ammonium cerium(IV) nitrate	(NH ₄) ₂ Ce(NO ₃) ₆	16774-21-3	548.223	red-oran cry					vs H ₂ O
76	Ammonium chlorate	NH ₄ ClO ₃	10192-29-7	101.490	wh cry	102 exp		1.80	28.7 ⁰	
77	Ammonium chloride	NH ₄ Cl	12125-02-9	53.492	col cub cry	520 tp (dec)	338 sp	1.519	39.5 ²⁵	
78	Ammonium chromate	(NH ₄) ₂ CrO ₄	7788-98-9	152.071	yel cry	185 dec		1.90	37 ²⁵	sl ace, MeOH; i EtOH
79	Ammonium chromic sulfate dodecahydrate	NH ₄ Cr(SO ₄) ₂ · 12H ₂ O	10022-47-6	478.345	blue-viol cry	94 dec		1.72		s H ₂ O; sl EtOH
80	Ammonium cobalt(II) phosphate	CoNH ₄ PO ₄	14590-13-7	171.943	red-viol powder (hyd)					i H ₂ O; s acid
81	Ammonium cobalt(II) sulfate hexahydrate	(NH ₄) ₂ Co(SO ₄) ₂ · 6H ₂ O	13586-38-4	395.229	red monocl prisms			1.90		s H ₂ O; i EtOH
82	Ammonium copper(II) chloride	CuCl ₂ · 2NH ₄ Cl	10060-13-6*	241.434	yel hyg orth cry					s H ₂ O
83	Ammonium copper(II) chloride dihydrate	CuCl ₂ · 2NH ₄ Cl · 2H ₂ O	10060-13-6	277.464	blue-grn tetr cry	110 dec		1.993		s H ₂ O, EtOH
84	Ammonium cyanide	NH ₄ CN	12211-52-8	44.056	col tetr cry	dec		1.10		vs H ₂ O
85	Ammonium dichromate	(NH ₄) ₂ Cr ₂ O ₇	7789-09-5	252.065	oran-red monocl cry; hyg	180 dec		2.155	35.6 ²⁰	
86	Ammonium dihydrogen arsenate	NH ₄ H ₂ AsO ₄	13462-93-6	158.975	tetr cry	300 dec		2.311	52.7 ²⁵	
87	Ammonium dihydrogen phosphate	NH ₄ H ₂ PO ₄	7722-76-1	115.026	wh tetr cry	190		1.80	40.4 ²⁵	sl EtOH; i ace
88	Ammonium dithiocarbamate	NH ₄ NH ₂ CSS	513-74-6	110.204	yel ortho cry	99 dec		1.45		s H ₂ O
89	Ammonium ferric chromate	NH ₄ Fe(CrO ₄) ₂	7789-08-4	305.871	red powder					i H ₂ O
90	Ammonium ferric oxalate trihydrate	(NH ₄) ₃ Fe(C ₂ O ₄) ₃ · 3H ₂ O	13268-42-3	428.063	grn monocl cry; hyg	≈160 dec		1.780		vs H ₂ O; i EtOH

91	Ammonium ferric sulfate dodecahydrate	$\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$	10138-04-2	482.194	col to viol cry	≈37		1.71		vs H_2O ; i EtOH
92	Ammonium ferricyanide trihydrate	$(\text{NH}_4)_3\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$	14221-48-8*	320.111	red cry					s H_2O ; i EtOH
93	Ammonium ferrocyanide trihydrate	$(\text{NH}_4)_4\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$	14481-29-9*	338.149	yel cry		dec			s H_2O ; i EtOH
94	Ammonium ferrous sulfate hexahydrate	$(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	10045-89-3	392.141	blue-grn monocl cry	≈100	dec	1.86		s H_2O ; i EtOH
95	Ammonium fluoride	NH_4F	12125-01-8	37.037	wh hex cry; hyg		dec	1.015	83.5 ²⁵	sl EtOH
96	Ammonium tetrafluoroborate	NH_4BF_4	13826-83-0	104.844	wh powder; orth		487 dec	1.871	25 ²⁰	
97	Ammonium fluorosulfonate	$\text{NH}_4\text{SO}_3\text{F}$	13446-08-7	117.101	col needles		245			s H_2O ; EtOH, MeOH
98	Ammonium formate	NH_4CHO_2	540-69-2	63.057	hyg cry		116	1.27	143 ²⁰	s EtOH
99	Ammonium hexachloroiridate(IV)	$(\text{NH}_4)_2\text{IrCl}_6$	16940-92-4	441.010	blk cry powder		dec	2.856	1.09 ²⁵	
100	Ammonium hexachlorosmate(IV)	$(\text{NH}_4)_2\text{OsCl}_6$	12125-08-5	439.02	red cry or powder		subl	2.93		s H_2O ; EtOH
101	Ammonium hexachloropalladate(IV)	$(\text{NH}_4)_2\text{PdCl}_6$	19168-23-1	355.21	red-brn hyg cry		dec	2.418		
102	Ammonium hexabromoplatinate(IV)	$(\text{NH}_4)_2\text{PtBr}_6$	17363-02-9	710.58	powder		145 dec		0.59 ²⁰	
103	Ammonium hexachloroplatinate(IV)	$(\text{NH}_4)_2\text{PtCl}_6$	16919-58-7	443.87	red-oran cub cry		380 dec	3.065	0.5 ²⁰	i EtOH
104	Ammonium hexafluoroaluminate	$(\text{NH}_4)_3\text{AlF}_6$	7784-19-2	195.087	cub cry			1.78		s H_2O
105	Ammonium hexafluorogallate	$(\text{NH}_4)_3\text{GaF}_6$	14639-94-2	237.828	col cub cry		>200 dec	2.10		
106	Ammonium hexafluorogermanate	$(\text{NH}_4)_3\text{GeF}_6$	16962-47-3	222.68	wh cry		380	2.564		s H_2O ; i EtOH
107	Ammonium hexafluorophosphate	NH_4PF_6	16941-11-0	163.003	wh cub cry		58 dec	2.180		vs H_2O ; s ace, EtOH, MeOH
108	Ammonium hexafluorosilicate	$(\text{NH}_4)_2\text{SiF}_6$	16919-19-0	178.153	wh cub or trig cry		dec	2.011	22.7 ²⁵	i EtOH, ace
109	Ammonium hexafluorozirconate(IV)	$(\text{NH}_4)_2\text{ZrF}_6$	16919-31-6	241.291	wh hex cry			1.154		s H_2O
110	Ammonium hydrogen arsenate	$(\text{NH}_4)_2\text{HAsO}_4$	7784-44-3	176.004	wh powder			1.99		s H_2O
111	Ammonium hydrogen borate trihydrate	$\text{NH}_4\text{H}_2\text{BO}_7 \cdot 3\text{H}_2\text{O}$	10135-84-9	228.332	col cry			≈2.5		s H_2O
112	Ammonium hydrogen carbonate	NH_4HCO_3	1066-33-7	79.056	col or wh prisms		107 dec	1.586	24.8 ²⁵	i EtOH, bz
113	Ammonium hydrogen citrate	$(\text{NH}_4)_2\text{HC}_6\text{H}_7\text{O}_7$	3012-65-5	226.184	col cry			1.48		vs H_2O ; sl EtOH
114	Ammonium hydrogen fluoride	NH_4HF_2	1341-49-7	57.044	wh orth cry		125	1.50	60.2 ²⁰	240 dec
115	Ammonium hydrogen oxalate monohydrate	$\text{NH}_4\text{HC}_2\text{O}_4 \cdot \text{H}_2\text{O}$	5972-72-5*	125.081	col rhomb cry		dec	1.56		sl H_2O ; EtOH
116	Ammonium hydrogen phosphate	$(\text{NH}_4)_2\text{HPO}_4$	7783-28-0	132.055	wh cry		155 dec	1.619	69.5 ²⁵	i EtOH, ace
117	Ammonium hydrogen selenate	$\text{NH}_4\text{H}_2\text{SeO}_4$	10294-60-7	162.01	rhomb cry		dec	2.162		
118	Ammonium hydrogen sulfate	NH_4HSO_4	7803-63-6	115.111	wh hyg cry		147	1.78	100 ²⁰	i EtOH, ace, py
119	Ammonium hydrogen sulfide	NH_4HS	12124-99-1	51.113	wh tetr or orth cry		dec	1.17	128 ⁰	sl ace; i bz, eth
120	Ammonium hydrogen sulfite	NH_4HSO_3	10192-30-0	99.111	col cry		dec	2.03	71.8 ⁰	
121	Ammonium hydrogen tartrate	$\text{NH}_4\text{C}_4\text{H}_4\text{O}_6$	3095-65-6	167.117	wh cry			1.68		sl H_2O ; s alk; i EtOH
122	Ammonium hydroxide	NH_4OH	1336-21-6	35.046	exists only in soln					
123	Ammonium hypophosphite	$\text{NH}_4\text{H}_2\text{PO}_2$	7803-65-8	83.028	wh hyg cry		dec			vs H_2O ; sl EtOH; i ace
124	Ammonium iodate	NH_4IO_3	13446-09-8	192.941	wh powder		150	3.3	3.84 ²⁵	
125	Ammonium iodide	NH_4I	12027-06-4	144.943	wh tetr cry; hyg		551 dec	2.514	178 ²⁵	405 sp
126	Ammonium lactate	$\text{NH}_4\text{C}_3\text{H}_5\text{O}_3$	52003-58-4	107.108	col cry		92			s H_2O ; EtOH; sl MeOH; i ace, eth
127	Ammonium metatungstate hexahydrate	$(\text{NH}_4)_6\text{W}_7\text{O}_{24} \cdot 6\text{H}_2\text{O}$	12028-48-7	1887.19	wh cry					s H_2O ; i EtOH
128	Ammonium metavanadate	NH_4VO_3	7803-55-6	116.979	wh-yel cry		200 dec	2.326	4.8 ²⁰	
129	Ammonium molybdate(VI) tetrahydrate	$(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$	12054-85-2	1235.86	col or grn-yel cry		90 dec	2.498	43	i EtOH
130	Ammonium molybdophosphate	$(\text{NH}_4)_3\text{PO}_4 \cdot 12\text{MoO}_3$	54723-94-3*	1876.35	yel cry pow		dec		0.02	s alk; i acid
131	Ammonium nickel chloride hexahydrate	$\text{NH}_4\text{NiCl}_6 \cdot 6\text{H}_2\text{O}$	16122-03-5*	291.181	grn hyg cry			1.65		s H_2O
132	Ammonium nickel sulfate hexahydrate	$(\text{NH}_4)_2\text{Ni}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	7785-20-8	394.989	blue-grn cry		dec	1.923		sl H_2O ; i EtOH
133	Ammonium nitrate	NH_4NO_3	6484-52-2	80.043	wh hyg cry; orth		169.7	1.72	213 ²⁵	dec 200-260
134	Ammonium nitrite	NH_4NO_2	13446-48-5	64.044	wh-yel cry		60 exp	1.69	221 ²⁵	i eth
135	Ammonium nitroferrocyanide	$(\text{NH}_4)_2\text{Fe}(\text{CN})_5\text{NO}$	14402-70-1	252.016	red-brn cry					s H_2O ; EtOH
136	Ammonium oleate	$\text{NH}_4\text{C}_{18}\text{H}_{33}\text{O}_2$	544-60-5	299.493	yel-brn paste		21			s H_2O ; sl ace
137	Ammonium oxalate	$(\text{NH}_4)_2\text{C}_2\text{O}_4$	1113-38-8	124.096	col sol			1.5	5.20 ²⁵	
138	Ammonium oxalate monohydrate	$(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$	6009-70-7	142.110	wh orth cry		dec	1.50	5.20 ²⁵	sl EtOH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
139	Ammonium palmitate	NH ₄ C ₁₅ H ₃₁ CO ₂	593-26-0	273.455	yel-wh powder	22				s H ₂ O; sl bz, xyl; i ace, EtOH, ctc
140	Ammonium pentaborate tetrahydrate	NH ₄ B ₅ O ₈ · 4H ₂ O	12007-89-5	272.150	wh cry				7.03 ¹⁸	
141	Ammonium pentachlorozincate	(NH ₄) ₂ ZnCl ₅	14639-98-6	296.77	hyg orth cry			1.81		vs H ₂ O
142	Ammonium perchlorate	NH ₄ ClO ₄	7790-98-9	117.490	wh orth cry	dec, exp		1.95	24.5 ²⁵	s MeOH; sl EtOH, ace; i eth
143	Ammonium permanganate	NH ₄ MnO ₄	13446-10-1	136.975	purp rhomb cry	70 dec		2.22	7.9 ¹⁵	
144	Ammonium peroxydisulfate	(NH ₄) ₂ S ₂ O ₈	7727-54-0	228.204	monocl cry or wh powder	dec		1.982	83.5 ²⁵	
145	Ammonium perrenate	NH ₄ ReO ₄	13598-65-7	268.244	col powder			3.97	6.23 ²⁰	
146	Ammonium phosphate trihydrate	(NH ₄) ₃ PO ₄ · 3H ₂ O	10361-65-6*	203.133	wh prisms				25.0 ²⁵	i ace
147	Ammonium phosphite, dibasic, monohydrate	(NH ₄) ₂ HPO ₃ · H ₂ O	51503-61-8	134.071	hyg cry					s H ₂ O
148	Ammonium phosphomolybdate monohydrate	(NH ₄) ₃ PO ₄ · 12MoO ₃ · H ₂ O	54723-94-3	1894.36	yel cry or powder	dec			0.02	
149	Ammonium phosphotungstate dihydrate	(NH ₄) ₃ PO ₄ · 12WO ₃ · 2H ₂ O	1311-90-6	2967.18	cry powder					sl H ₂ O
150	Ammonium picrate	NH ₄ C ₆ H ₂ N ₃ O ₇	131-74-8	246.135	yel orth cry	exp		1.72		sl H ₂ O
151	Ammonium salicylate	NH ₄ C ₇ H ₅ O ₃	528-94-9	155.151	wh cry powder					vs H ₂ O; s EtOH
152	Ammonium selenate	(NH ₄) ₂ SeO ₄	7783-21-3	179.04	wh monocl cry	dec		2.194	117 ²⁵	i EtOH, ace
153	Ammonium selenite	(NH ₄) ₂ SeO ₃	7783-19-9	163.04	wh or red hyg cry	dec			121 ²⁵	
154	Ammonium stearate	NH ₄ C ₁₈ H ₃₅ O ₂	1002-89-7	301.509	yel-wh powder	22		0.89		sl H ₂ O, bz; s EtOH, MeOH; i ace
155	Ammonium sulfamate	NH ₄ NH ₂ SO ₃	7773-06-0	114.125	wh hyg cry	131	160 dec			vs H ₂ O; sl EtOH
156	Ammonium sulfate	(NH ₄) ₂ SO ₄	7783-20-2	132.141	wh or brn orth cry	280 dec		1.77	76.4 ²⁵	i EtOH, ace
157	Ammonium sulfide	(NH ₄) ₂ S	12135-76-1	68.143	yel-oran cry	≈0 dec				s H ₂ O, EtOH, alk
158	Ammonium sulfite	(NH ₄) ₂ SO ₃	17026-44-7	116.141	wh hyg cry				64.2 ²⁵	
159	Ammonium sulfite monohydrate	(NH ₄) ₂ SO ₃ · H ₂ O	7783-11-1	134.156	col cry	dec		1.41	64.2 ²⁵	i EtOH, ace
160	Ammonium tartrate	(NH ₄) ₂ C ₄ H ₄ O ₆	3164-29-2	184.147	wh cry	dec		1.601		s H ₂ O
161	Ammonium tellurate	(NH ₄) ₂ TeO ₄	13453-06-0	227.68	wh powder	dec		3.024		
162	Ammonium tetrachloroaluminate	NH ₄ AlCl ₄	7784-14-7	186.832	wh hyg solid	304				s H ₂ O, eth
163	Ammonium tetrachloroplatinate(II)	(NH ₄) ₂ PtCl ₄	13820-41-2	372.97	red cry	dec		2.936		s H ₂ O; i EtOH
164	Ammonium tetrachlorozincate	(NH ₄) ₂ ZnCl ₄	14639-97-5	243.28	wh orth plates; hyg	150 dec		1.879		vs H ₂ O
165	Ammonium tetrathiotungstate	(NH ₄) ₂ WS ₄	13862-78-7	348.18	oran cry	dec		2.71		s H ₂ O
166	Ammonium thiocyanate	NH ₄ SCN	1762-95-4	76.122	col hyg cry	≈149	dec	1.30	181 ²⁵	vs EtOH; s ace; i chl
167	Ammonium thiosulfate	(NH ₄) ₂ S ₂ O ₃	7783-18-8	148.207	wh cry	150 dec		1.678		vs H ₂ O; i EtOH, eth
168	Ammonium titanium oxalate monohydrate	(NH ₄) ₂ TiO(C ₂ O ₄) ₂ · H ₂ O	10580-03-7	293.996	hyg cry					vs H ₂ O
169	Ammonium tungstate(VI)	(NH ₄) ₁₀ W ₁₂ O ₄₁	11120-25-5	3042.44	cry pow			2.3		s H ₂ O; i EtOH
170	Ammonium uranate(VI)	(NH ₄) ₂ U ₂ O ₇	7783-22-4	624.131	red-yel amorp powder					i H ₂ O, alk; s acid
171	Ammonium uranium fluoride	UO ₂ (NH ₄) ₂ F ₅	18433-40-4	419.135	grn-yel monocl cry					s H ₂ O; i EtOH
172	Ammonium valerate	NH ₄ C ₄ H ₉ CO ₂	42739-38-8	119.163	hyg cry	108				vs H ₂ O, EtOH; s eth
173	Ammonium zirconyl carbonate dihydrate	(NH ₄) ₂ ZrOH(CO ₃) ₂ · 2H ₂ O	12616-24-9*	362.404	prisms; unstable					s H ₂ O
174	Antimony	Sb	7440-36-0	121.760	silv metal; hex	630.628	1587	6.68		i dil acid
175	Stibine	SbH ₃	7803-52-3	124.784	col gas; flam	-88	-17	5.100 g/L		sl H ₂ O; s EtOH
176	Antimony arsenide	SbAs	12322-34-8	196.682	hex cry	≈680		6.0		
177	Antimony(III) bromide	SbBr ₃	7789-61-9	361.472	yel orth cry; hyg	96.6	280	4.35		reac H ₂ O; s ace, bz, chl
178	Antimony(III) chloride	SbCl ₃	10025-91-9	228.118	col orth cry; hyg	73.4	220.3	3.14	987 ²⁵	s acid, EtOH, bz, ace
179	Antimony(III) fluoride	SbF ₃	7783-56-4	178.755	wh orth cry; hyg	292	≈345	4.38	492 ²⁵	
180	Antimony(III) iodide	SbI ₃	7790-44-5	502.473	red rhomb cry	168	401	4.92		reac H ₂ O; s EtOH, ace; i ctc
181	Antimony(III) oxide (senarmonite)	Sb ₂ O ₃	1309-64-4	291.518	col cub cry	570 trans	1425	5.58		sl H ₂ O; i os
182	Antimony(III) oxide (valentinite)	Sb ₂ O ₃	1309-64-4	291.518	wh orth cry	655	1425	5.7		sl H ₂ O; i os

183	Antimony(III) oxychloride	SbOCl	7791-08-4	173.212	wh momo cry	170 dec				react H ₂ O; i EtOH, eth
184	Antimony(III) selenide	Sb ₂ Se ₃	1315-05-5	480.40	grn orth cry	611		5.81		sl H ₂ O
185	Antimony(III) sulfate	Sb ₂ (SO ₄) ₃	7446-32-4	531.711	wh cry powder; hyg	dec		3.62		sl H ₂ O
186	Antimony(III) sulfide	Sb ₂ S ₃	1345-04-6	339.718	gray-blk orth cry	550		4.562		i H ₂ O; s conc HCl
187	Antimony(III) teluride	Sb ₂ Te ₃	1327-50-0	626.32	gray cry	620		6.5		
188	Antimony(III,V) oxide	Sb ₂ O ₄	1332-81-6	307.518	yel orth cry			6.64		
189	Antimony(V) chloride	SbCl ₅	7647-18-9	299.024	col or yel liq	4	140 dec	2.34		react H ₂ O; s chl, ctc
190	Antimony(V) fluoride	SbF ₅	7783-70-2	216.752	hyg visc liq	8.3	141	3.10		react H ₂ O
191	Antimony(V) dichlorotrifluoride	SbCl ₂ F ₃	7791-16-4	249.660	visc liq					react H ₂ O
192	Antimony(V) oxide	Sb ₂ O ₅	1314-60-9	323.517	yel powder; cub	dec		3.78	0.3 ²⁰	
193	Antimony(V) sulfide	Sb ₂ S ₅	1315-04-4	403.850	oran-yel powder	75 dec		4.120		i H ₂ O; s acid, alk
194	Argon	Ar	7440-37-1	39.948	col gas	-189.36 tp (69 kPa)	-185.847	1.633 g/L		sl H ₂ O
195	Arsenic (gray)	As	7440-38-2	74.922	gray metal; rhomb	817 tp (3.70 MPa)	603 sp	5.75		i H ₂ O
196	Arsine	AsH ₃	7784-42-1	77.946	col gas	-116	-62.5	3.186 g/L		sl H ₂ O
197	Diarsine	As ₂ H ₄	15942-63-9	153.875	unstable liq		≈100			
198	Arsenic acid	H ₃ AsO ₄	7778-39-4	141.944	exists only in soln					
199	Arsenic acid hemihydrate	H ₃ AsO ₄ · 0.5H ₂ O	7778-39-4*	150.951	wh hyg cry	35.5		≈2		vs H ₂ O, EtOH
200	Arsenious acid	H ₃ AsO ₃	13464-58-9	125.944	exists only in soln					
201	Arsenic diiodide	As ₂ I ₄	13770-56-4	657.461	red cry	137				react H ₂ O; s os
202	Arsenic hemiselenide	As ₂ Se	1303-35-1	228.80	blk cry					i H ₂ O, os; dec acid, alk
203	Arsenic sulfide	As ₂ S ₄	12279-90-2	427.950	red monocl cry	320	565	3.5		i H ₂ O; sl bz; s alk
204	Arsenic(III) bromide	AsBr ₃	7784-33-0	314.634	yel orth cry; hyg	31.1	221	3.40		react H ₂ O; s hc, ctc; vs eth, bz
205	Arsenic(III) chloride	AsCl ₃	7784-34-1	181.280	col liq	-16	130	2.150		react H ₂ O; vs chl, ctc, eth
206	Arsenic(III) fluoride	AsF ₃	7784-35-2	131.917	col liq	-5.9	57.8	2.7		react H ₂ O; s EtOH, eth, bz
207	Arsenic(III) iodide	AsI ₃	7784-45-4	455.635	red hex cry	140.9	424	4.73		sl H ₂ O, EtOH, eth; s bz, tol
208	Arsenic(III) oxide (arsenolite)	As ₂ O ₃	1327-53-3	197.841	wh cub cry	274	460	3.86	2.05 ²⁵	
209	Arsenic(III) oxide (claudetite)	As ₂ O ₃	1327-53-3	197.841	wh monocl cry	313	460	3.74	2.05 ²⁵	s dil acid, alk; i EtOH
210	Arsenic(III) selenide	As ₂ Se ₃	1303-36-2	386.72	brn-blk solid	260		4.75		i H ₂ O; s alk
211	Arsenic(III) sulfide	As ₂ S ₃	1303-33-9	246.041	yel-oran monocl cry	310	707	3.46		i H ₂ O; s alk
212	Arsenic(III) teluride	As ₂ Te ₃	12044-54-1	532.64	blk monocl cry	621		6.50		
213	Arsenic(V) chloride	AsCl ₅	22441-45-8	252.186	stable at low temp	≈-50 dec				
214	Arsenic(V) fluoride	AsF ₅	7784-36-3	169.914	col gas	-79.8	-52.8	6.945 g/L		react H ₂ O; s EtOH, bz, eth
215	Arsenic(V) oxide	As ₂ O ₅	1303-28-2	229.840	wh amorp powder	315		4.32	65.8 ²⁰	vs EtOH
216	Arsenic(V) selenide	As ₂ Se ₅	1303-37-3	544.64	blk solid	dec				i H ₂ O, EtOH, eth; s alk
217	Arsenic(V) sulfide	As ₂ S ₅	1303-34-0	310.173	brn-yel amorp solid	dec				i H ₂ O; s alk
218	Triethyl arsenite	As(OC ₂ H ₅) ₃	3141-12-6	210.103	liq		166	1.21		
219	Astatine	At	7440-68-8	210	cry	302				s HNO ₃ , os
220	Barium	Ba	7440-39-3	137.327	silv-yel metal; cub	727	1897	3.62		react H ₂ O; sl EtOH
221	Barium acetate	Ba(C ₂ H ₃ O ₂) ₂	543-80-6	255.416	wh powder			2.47	79.2 ²⁵	
222	Barium acetate monohydrate	Ba(C ₂ H ₃ O ₂) ₂ · H ₂ O	5908-64-5	273.431	wh cry	110 dec		2.19	79.2 ²⁵	sl EtOH
223	Barium aluminate	BaAl ₂ O ₄	12004-04-5	255.288	hex cry	1827				
224	Barium azide	Ba(N ₃) ₂	18810-58-7	221.367	monocl cry; exp	≈120 dec		2.936	17.3 ²⁰	sl EtOH; i eth
225	Barium bromate monohydrate	Ba(BrO ₃) ₂ · H ₂ O	10326-26-8	411.147	wh monocl cry	260 dec		3.99	0.831 ²⁵	i EtOH
226	Barium bromide	BaBr ₂	10553-31-8	297.135	wh orth cry	857	1835	4.781	100 ²⁵	
227	Barium bromide dihydrate	BaBr ₂ · 2H ₂ O	7791-28-8	333.166	wh cry	75 dec		3.7	100 ²⁵	s MeOH; i EtOH, ace, diox
228	Barium carbide	BaC ₂	50813-65-5	161.348	gray tetr cry	dec		3.74		react H ₂ O
229	Barium carbonate	BaCO ₃	513-77-9	197.336	wh orth cry	1555		4.2865	0.0014 ²⁰	s acid

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
230	Barium chlorate	Ba(ClO ₃) ₂	13477-00-4	304.228	wh cry	414			37.9 ²⁵	sl EtOH, ace
231	Barium chlorate monohydrate	Ba(ClO ₃) ₂ · H ₂ O	10294-38-9	322.244	wh monocl cry	120 dec		3.179	37.9 ²⁵	s acid; sl EtOH, ace
232	Barium chloride	BaCl ₂	10361-37-2	208.232	wh orth cry; hyg	962	1560	3.9	37.0 ²⁵	
233	Barium chloride dihydrate	BaCl ₂ · 2H ₂ O	10326-27-9	244.263	wh monocl cry	≈120 dec		3.097	37.0 ²⁵	i EtOH
234	Barium chromate(V)	Ba ₃ (CrO ₄) ₂	12345-14-1	643.968	grn-blk hex cry			5.25		s H ₂ O
235	Barium chromate(VI)	BaCrO ₄	10294-40-3	253.321	yel orth cry	1380		4.50	0.00026 ²⁰	reac acid
236	Barium citrate monohydrate	Ba ₃ (C ₆ H ₅ O ₇) ₂ · H ₂ O	512-25-4*	808.195	gray-wh cry					s H ₂ O, acid
237	Barium copper yttrium oxide	BaCuY ₂ O ₆	82642-06-6	458.682	grn cry; not superconductor					
238	Barium copper yttrium oxide	Ba ₂ Cu ₃ YO ₇	109064-29-1	666.194	blk solid; HT superconductor					
239	Barium copper yttrium oxide	Ba ₂ Cu ₄ YO ₈	114104-80-2	745.739	HT superconductor					
240	Barium copper yttrium oxide	Ba ₄ Cu ₂ Y ₂ O ₁₅	124365-83-9	1411.933	HT superconductor					
241	Barium cyanide	Ba(CN) ₂	542-62-1	189.361	wh cry powder					vs H ₂ O; s EtOH
242	Barium dichromate dihydrate	BaCr ₂ O ₇ · 2H ₂ O	10031-16-0	389.346	brn-red needles	dec				reac H ₂ O
243	Barium dithionate dihydrate	BaS ₂ O ₆ · 2H ₂ O	13845-17-5	333.486	wh cry	140 dec		4.54	22.1 ²⁰	sl EtOH
244	Barium ferrocyanide hexahydrate	Ba ₂ Fe(CN) ₆ · 6H ₂ O	13821-06-2*	594.694	yel monocl cry	80 dec				i H ₂ O, EtOH
245	Barium fluoride	BaF ₂	7787-32-8	175.324	wh cub cry	1368	2260	4.893	0.161 ²⁵	
246	Barium formate	Ba(CHO ₂) ₂	541-43-5	227.362	cry			3.21		s H ₂ O; i EtOH
247	Barium hexaboride	BaB ₆	12046-08-1	202.193	blk cub cry	2070		4.36		i H ₂ O; s acid; i EtOH
248	Barium hexafluorosilicate	BaSiF ₆	17125-80-3	279.403	wh orth needles	300 dec		4.29		i H ₂ O, EtOH; sl acid
249	Barium hydride	BaH ₂	13477-09-3	139.343	gray orth cry	1200		4.16		reac H ₂ O
250	Barium hydrogen phosphate	BaHPO ₄	10048-98-3	233.306	wh cry powder	400 dec		4.16	0.015 ²⁰	s dil acid
251	Barium hydrosulfide	Ba(HS) ₂	25417-81-6	203.475	yel hyg cry					s H ₂ O
252	Barium hydrosulfide tetrahydrate	Ba(HS) ₂ · 4H ₂ O	12230-74-9	275.536	yel rhomb cry	50 dec				s H ₂ O
253	Barium hydroxide	Ba(OH) ₂	17194-00-2	171.342	wh powder	408			4.91 ²⁵	
254	Barium hydroxide monohydrate	Ba(OH) ₂ · H ₂ O	22326-55-2	189.357	wh powder			3.743	4.91 ²⁵	s acid
255	Barium hydroxide octahydrate	Ba(OH) ₂ · 8H ₂ O	12230-71-6	315.464	wh monocl cry	78 dec		2.18	4.91 ²⁵	
256	Barium hypophosphite monohydrate	Ba(H ₂ PO ₂) ₂ · H ₂ O	14871-79-5*	285.320	monocl plates			2.90		s H ₂ O; i EtOH
257	Barium iodate	Ba(IO ₃) ₂	10567-69-8	487.132	wh cry powder	476 dec		5.23	0.0396 ²⁵	
258	Barium iodate monohydrate	Ba(IO ₃) ₂ · H ₂ O	7787-34-0	505.148	cry	130 dec		5.00	0.0396 ²⁵	s acid; i EtOH
259	Barium iodide	BaI ₂	13718-50-8	391.136	wh orth cry	711		5.15	221 ²⁵	
260	Barium iodide dihydrate	BaI ₂ · 2H ₂ O	7787-33-9	427.167	col cry	740 dec		5.0	221 ²⁵	s EtOH, ace
261	Barium manganate(VI)	BaMnO ₄	7787-35-1	256.263	grn-gray hyg cry			4.85	0.00041 ²⁰	
262	Barium metaborate monohydrate	Ba(BO ₂) ₂ · H ₂ O	26124-86-7	240.962	wh powder	>900		3.3		sl H ₂ O
263	Barium molybdate	BaMoO ₄	7787-37-3	297.27	wh powder	1450		4.975	0.0021 ²⁰	
264	Barium niobate	Ba(NbO ₃) ₂	12009-14-2	419.136	yel orth cry	1455		5.44		i H ₂ O
265	Barium nitrate	Ba(NO ₃) ₂	10022-31-8	261.336	wh cub cry	590		3.24	10.3 ²⁵	sl EtOH, ace
266	Barium nitride	Ba ₃ N ₂	12047-79-9	439.994	yel-brn cry	>500 dec		4.78		reac H ₂ O
267	Barium nitrite	Ba(NO ₂) ₂	13465-94-6	229.338	col hex cry	267		3.234	79.5 ²⁵	
268	Barium nitrite monohydrate	Ba(NO ₂) ₂ · H ₂ O	7787-38-4	247.353	yel-wh hex cry	217 dec		3.18	79.5 ²⁵	i EtOH
269	Barium oxalate	BaC ₂ O ₄	516-02-9	225.346	wh powder	400 dec		2.658	0.0075	
270	Barium oxalate monohydrate	BaC ₂ O ₄ · H ₂ O	13463-22-4	243.361	wh cry powder			2.66	0.0075 ²⁰	s acid
271	Barium oxide	BaO	1304-28-5	153.326	wh-yel powder; cub and hex	1972		5.72(cub)	1.5 ²⁰	s dil acid, EtOH; i ace
272	Barium perchlorate	Ba(ClO ₄) ₂	13465-95-7	336.227	col hex cry	505		3.20	312 ²⁵	vs EtOH
273	Barium perchlorate trihydrate	Ba(ClO ₄) ₂ · 3H ₂ O	10294-39-0	390.273	col cry			2.74	312 ²⁵	s MeOH; sl EtOH, ace; i eth
274	Barium permanganate	Ba(MnO ₄) ₂	7787-36-2	375.198	brn-viol cry	200 dec		3.77	62.5 ²⁰	reac EtOH

275	Barium peroxide	BaO ₂	1304-29-6	169.326	gray-wh tetr cry	450 dec		4.96	0.091 ²⁰	reac dil acid
276	Barium metaphosphate	Ba(PO ₃) ₂	13466-20-1	295.271	wh powder	1560				i H ₂ O; sl acid
277	Barium potassium chromate	BaK ₂ (CrO ₄) ₂	27133-66-0	447.511	yel hex cry			3.63		vs H ₂ O
278	Barium pyrophosphate	Ba ₂ P ₂ O ₇	13466-21-2	448.597	wh powder	1430		3.9	0.0088 ²⁰	s acid
279	Barium selenate	BaSeO ₄	7787-41-9	280.29	wh rhomb cry	dec		4.75	0.015 ²⁰	
280	Barium selenide	BaSe	1304-39-8	216.29	cub cry powder	1780		5.02		reac H ₂ O
281	Barium selenite	BaSeO ₃	13718-59-7	264.29	solid					i H ₂ O
282	Barium disilicate	BaSi ₂ O ₅	12650-28-1	273.495	wh orth cry	1420		3.70		
283	Barium metasilicate	BaSiO ₃	13255-26-0	213.411	col rhomb powder	1605		4.40		i H ₂ O; s acid
284	Barium silicide	BaSi ₂	1304-40-1	193.498	gray lumps	1180				reac H ₂ O
285	Barium sodium niobate	Ba ₂ Na(NbO ₃) ₅	12323-03-4	1002.167	wh orth cry	1437		5.40		i H ₂ O
286	Barium stannate	BaSnO ₃	12009-18-6	304.035	cub cry			7.24		sl H ₂ O
287	Barium stannate trihydrate	BaSnO ₃ · 3H ₂ O	12009-18-6*	358.081	wh cry powder					sl H ₂ O; s acid
288	Barium stearate	Ba(C ₁₈ H ₃₅ O ₂) ₂	6865-35-6	704.266	wh powder	160		1.145		i H ₂ O, EtOH
289	Barium sulfate	BaSO ₄	7727-43-7	233.391	wh orth cry	1580		4.49	0.00031 ²⁰	i EtOH
290	Barium sulfide	BaS	21109-95-5	169.393	col cub cry or gray powder	2229		4.3	8.94 ²⁵	
291	Barium sulfite	BaSO ₃	7787-39-5	217.391	wh monocl cry	dec		4.44	0.0011 ²⁵	i EtOH
292	Barium tartrate	BaC ₄ H ₄ O ₆	5908-81-6	285.398	wh cry			2.98		s H ₂ O; i EtOH
293	Barium tetracyanoplatinate(II) tetrahydrate	BaPt(CN) ₄ · 4H ₂ O	13755-32-3	508.54	yel powder or cry			2.076		sl H ₂ O; i EtOH
294	Barium tetraiodomercurate(II)	BaHgI ₄	10048-99-4	845.54	yel-red hyg cry					vs H ₂ O, EtOH
295	Barium thiocyanate	Ba(SCN) ₂	2092-17-3	253.493	hyg cry				167 ²⁵	s ace, MeOH, EtOH
296	Barium thiocyanate dihydrate	Ba(SCN) ₂ · 2H ₂ O	2092-17-3*	289.524	hyg wh cry				167 ²⁵	s EtOH
297	Barium thiocyanate trihydrate	Ba(SCN) ₂ · 3H ₂ O	68016-36-4	307.539	wh needles; hyg			2.286	167 ²⁵	s EtOH
298	Barium thiosulfate	BaS ₂ O ₃	35112-53-9	249.457	wh cry powder	220 dec			0.2 ²⁰	i EtOH
299	Barium thiosulfate monohydrate	BaS ₂ O ₃ · H ₂ O	7787-40-8	267.473	wh cry powder	dec		3.5	0.2	i EtOH
300	Barium titanate	BaTiO ₃	12047-27-7	233.192	wh tetr cry	1625		6.02		i H ₂ O
301	Barium tungstate	BaWO ₄	7787-42-0	385.17	wh tetr cry	1475	1730	5.04	0.0016 ²⁰	
302	Barium uranium oxide	BaU ₂ O ₇	10380-31-1	725.381	oran-yel powder					i H ₂ O; s acid
303	Barium orthovanadate	Ba ₃ (VO ₄) ₂	39416-30-3	641.859	hex cry	707		5.14		
304	Barium zirconate	BaZrO ₃	12009-21-1	276.549	gray-wh cub cry	2500		5.52		i H ₂ O, alk; sl acid
305	Berkelium (α form)	Bk	7440-40-6	247	hex	1050		14.78		
306	Berkelium (β form)	Bk	7440-40-6	247	cub cry	986		13.25		
307	Beryllium	Be	7440-41-7	9.012	hex	1287	2471	1.85		s acid, alk
308	Beryllium acetate	Be(C ₂ H ₃ O ₂) ₂	543-81-7	127.101	wh cry	60 dec				i H ₂ O, EtOH
309	Beryllium 2,4-pentanedioate	Be(CH ₃ COCHCOCH ₃) ₂	10210-64-7	207.228	monocl cry powder	108	270	1.168		i H ₂ O; vs EtOH, eth
310	Beryllium aluminate	BeAl ₂ O ₄	12004-06-7	126.973	orth cry			3.65		
311	Beryllium aluminum metasilicate	Be ₃ Al ₂ (SiO ₃) ₆	1302-52-9	537.502	col or grn-yel cry; hex			2.64		
312	Beryllium basic acetate	Be ₂ O(C ₂ H ₃ O ₂) ₆	1332-52-1	406.312	wh cry	285	330	1.25		i H ₂ O; s eth, os
313	Beryllium boride	BeB ₂	12228-40-9	30.634	refrac solid	>1970				
314	Beryllium borohydride	Be(BH ₄) ₂	17440-85-6	36.682	solid	125 dec	subl			reac H ₂ O
315	Beryllium bromide	BeBr ₂	7787-46-4	168.820	orth cry; hyg	508	520	3.465		vs H ₂ O; s EtOH, pyr
316	Beryllium carbide	Be ₂ C	506-66-1	30.035	red cub cry	>2100 dec		1.90		reac H ₂ O
317	Beryllium carbonate tetrahydrate	BeCO ₃ · 4H ₂ O	60883-64-9	93.085	wh solid	100 dec			0.36 ⁹	
318	Beryllium carbonate, basic	Be ₃ (OH) ₂ (CO ₃) ₂	66104-24-3	181.069	wh pow					i H ₂ O; s acid, alk
319	Beryllium chloride	BeCl ₂	7787-47-5	79.917	wh-yel orth cry; hyg	415	482	1.90	71.5 ²⁵	s EtOH, eth, py; i bz, tol
320	Beryllium fluoride	BeF ₂	7787-49-7	47.009	tetr cry or gl; hyg	552	1169	2.1		vs H ₂ O; sl EtOH
321	Beryllium formate	Be(CHO ₂) ₂	1111-71-3	99.047	powder	>250 dec				reac H ₂ O; i os
322	Beryllium hydride	BeH ₂	7787-52-2	11.028	wh amorp solid	250 dec		0.65		reac H ₂ O; i eth, tol

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
323	Beryllium hydrogen phosphate	BeHPO ₄	13598-15-7	104.991	cry					i H ₂ O
324	Beryllium hydroxide	Be(OH) ₂	13327-32-7	43.027	wh powder or cry	≈200 dec		1.92		sl H ₂ O, alk; s acid
325	Beryllium iodide	BeI ₂	7787-53-3	262.821	hyg needles	470	487	4.32		reac H ₂ O; s EtOH
326	Beryllium nitrate trihydrate	Be(NO ₃) ₂ · 3H ₂ O	13597-99-4	187.068	yel-wh hyg cry	≈30	dec		107 ²⁰	s EtOH
327	Beryllium nitride	Be ₃ N ₂	1304-54-7	55.050	gray refrac cry; cub	2200		2.71		reac acid, alk
328	Beryllium oxide	BeO	1304-56-9	25.011	wh hex cry	2577		3.01		i H ₂ O; sl acid, alk
329	Beryllium perchlorate tetrahydrate	Be(ClO ₄) ₂ · 4H ₂ O	7787-48-6	279.974	hyg cry	250 dec			198 ²⁵	
330	Beryllium selenate tetrahydrate	BeSeO ₄ · 4H ₂ O	10039-31-3	224.03	orth cry	100 dec		2.03		vs H ₂ O
331	Beryllium sulfate	BeSO ₄	13510-49-1	105.076	col tetr cry; hyg	1127		2.5	41.3 ²⁵	
332	Beryllium sulfate tetrahydrate	BeSO ₄ · 4H ₂ O	7787-56-6	177.137	col tetr cry	≈100 dec		1.71	41.3 ²⁵	i EtOH
333	Beryllium sulfide	BeS	13598-22-6	41.078	col cub cry	dec		2.36		reac hot H ₂ O
334	Bismuth	Bi	7440-69-9	208.980	gray-wh soft metal	271.402	1564	9.79		s acid
335	Bismuth arsenate	BiAsO ₄	13702-38-0	347.900	wh mono cry			7.14		i H ₂ O; sl conc HNO ₃
336	Bismuth basic carbonate	(BiO) ₂ CO ₃	5892-10-4	509.969	wh powder			6.86		i H ₂ O; s acid
337	Bismuth tribromide	BiBr ₃	7787-58-8	448.692	yel cub cry	218	453	5.72		reac H ₂ O; s dil acid, ace; i EtOH
338	Bismuth trichloride	BiCl ₃	7787-60-2	315.338	yel-wh cub cry; hyg	230	447	4.75		reac H ₂ O; s acid, EtOH, ace
339	Bismuth citrate	BiC ₆ H ₅ O ₇	813-93-4	398.080	wh powder			3.458		i H ₂ O; sl EtOH
340	Bismuth trifluoride	BiF ₃	7787-61-3	265.975	wh-gray cub cry	725	900	8.3		i H ₂ O
341	Bismuth pentafluoride	BiF ₅	7787-62-4	303.972	wh tetr needles; hyg	154	230	5.55		reac H ₂ O
342	Bismuth hydride	BiH ₃	18288-22-7	212.004	col gas; unstable	-67	≈17	8.665 g/L		
343	Bismuth hydroxide	Bi(OH) ₃	10361-43-0	260.002	wh-yel amorp powder			4.962		i H ₂ O; s acid
344	Bismuth triiodide	BiI ₃	7787-64-6	589.693	blk hex cry	408.6	542	5.778	0.00078 ²⁰	s EtOH
345	Bismuth hexafluoro-2,4-pentanedioate	Bi(CF ₃ COCHCOCF ₃) ₃		830.132	pow	96				
346	Bismuth molybdate	Bi ₂ (MoO ₄) ₃	51898-99-8	897.77	monocl cry			5.95		
347	Bismuth nitrate pentahydrate	Bi(NO ₃) ₃ · 5H ₂ O	10035-06-0	485.071	col tricr cry; hyg	≈75 dec		2.83		reac H ₂ O; s ace; i EtOH
348	Bismuth oleate	Bi(C ₁₈ H ₃₃ O ₂) ₃	52951-38-9	1053.340	soft yel-brn solid					i H ₂ O; s eth; sl bz
349	Bismuth oxalate	Bi ₂ (C ₂ O ₄) ₃	6591-55-5	682.018	wh powder					i H ₂ O, EtOH; s dil acid
350	Bismuth oxide	Bi ₂ O ₃	1304-76-3	465.959	yel monocl cry or powder	817	1890	8.9		i H ₂ O; s acid
351	Bismuth oxybromide	BiOBr	7787-57-7	304.883	col tetr cry			8.08		i H ₂ O, EtOH; s acid
352	Bismuth oxychloride	BiOCl	7787-59-9	260.432	wh tetr cry			7.72		i H ₂ O
353	Bismuth oxyiodide	BiOI	7787-63-5	351.883	red tetr cry	>300 dec		7.92		i H ₂ O, EtOH, chl; s HCl
354	Bismuth oxynitrate	BiONO ₃	10361-46-3	286.985	wh powder	260 dec		4.93		i H ₂ O, EtOH; s acid
355	Bismuth phosphate	BiPO ₄	10049-01-1	303.951	monocl cry			6.32		sl H ₂ O, dil acid; i EtOH
356	Bismuth potassium iodide	K ₂ BiI ₇	41944-01-8	1253.704	red cry					reac H ₂ O; s alk iodide soln
357	Bismuth selenide	Bi ₂ Se ₃	12068-69-8	654.84	blk hex cry	710 dec		7.5		i H ₂ O
358	Bismuth stannate pentahydrate	Bi ₂ (SnO ₃) ₃ · 5H ₂ O	12777-45-6	1008.162	wh cry					i H ₂ O
359	Bismuth subnitrate	Bi ₂ O(OH) ₄ (NO ₃) ₄	1304-85-4	1461.987	hyg cry pow	260 dec		4.928		i H ₂ O, EtOH; s dil acid
360	Bismuth sulfate	Bi ₂ (SO ₄) ₃	7787-68-0	706.152	wh needles or powder	405 dec		5.08		reac H ₂ O, EtOH
361	Bismuth sulfide	Bi ₂ S ₃	1345-07-9	514.159	blk-brn orth cry	850		6.78		i H ₂ O; s acid
362	Bismuth telluride	Bi ₂ Te ₃	1304-82-1	800.76	gray hex plates	580		7.74		i H ₂ O; s EtOH
363	Bismuth tetroxide	Bi ₂ O ₄	12048-50-9	481.959	red-oran powder	305		5.6		reac H ₂ O
364	Bismuth titanate	Bi ₄ (TiO ₄) ₃	12048-51-0	1171.516	wh orth cry			7.85		
365	Bismuth tungstate	Bi ₂ (WO ₄) ₃	13595-87-4	1161.47	wh pow					
366	Bismuth vanadate	BiVO ₄	14059-33-7	323.920	orth cry	trans 500		6.25		i H ₂ O; s acid
367	Boron	B	7440-42-8	10.811	blk rhomb cry	2075	4000	2.34		i H ₂ O

368	Diborane	B ₂ H ₆	19287-45-7	27.670	col gas; flam	-165.5	-92.4	1.131 g/L	reac H ₂ O
369	Tetraborane(10)	B ₄ H ₁₀	18283-93-7	53.323	col gas	-121	18	2.180 g/L	reac H ₂ O
370	Pentaborane(9)	B ₅ H ₉	19624-22-7	63.126	flam liq	-46.6	60	0.60	reac hot H ₂ O
371	Pentaborane(11)	B ₅ H ₁₁	18433-84-6	65.142	col liq; unstable	-122	65		reac H ₂ O
372	Hexaborane(10)	B ₆ H ₁₀	23777-80-2	74.945	col liq	-62.3	108 dec	0.67	reac hot H ₂ O
373	Hexaborane(12)	B ₆ H ₁₂	12008-19-4	76.961	col liq; unstable	-82.3	≈80		reac H ₂ O
374	Nonaborane(15)	B ₉ H ₁₅	19465-30-6	112.418	col liq	2.6			
375	Decaborane(14)	B ₁₀ H ₁₄	17702-41-9	122.221	wh orth cry	99.6	≈213	0.94	sl H ₂ O; s EtOH, bz, CS ₂ , ctc
376	Borane carbonyl	BH ₃ CO	13205-44-2	41.845	col gas	-137	-64	1.710 g/L	reac H ₂ O
377	Borazine	B ₃ N ₃ H ₆	6569-51-3	80.501	col liq	-58	53	0.824	reac H ₂ O
378	Boric acid (orthoboric acid)	H ₃ BO ₃	10043-35-3	61.833	col tricr cry	170.9		1.5	5.80 ²⁵ sl EtOH
379	Metaboric acid (α form)	HBO ₂	13460-50-9	43.818	col orth cry; hyg	176		1.784	s H ₂ O
380	Metaboric acid (β form)	HBO ₂	13460-50-9	43.818	col monocr cry; hyg	201		2.045	s H ₂ O
381	Metaboric acid (γ form)	HBO ₂	13460-50-9	43.818	col cub cry	236		2.487	s H ₂ O
382	Tetrafluoroboric acid	BF ₄	16872-11-0	87.813	col liq		130 dec	≈1.8	vs H ₂ O, EtOH
383	Boron arsenide	BAs	12005-69-5	85.733	cub cry	920 dec		5.22	
384	Boron tribromide	BBr ₃	10294-33-4	250.523	col liq; hyg	-45	91	2.6	reac H ₂ O, EtOH
385	Boron carbide	B ₄ C	12069-32-8	55.255	hard blk cry	2350	>3500	2.50	i H ₂ O, acid
386	Boron trichloride	BCl ₃	10294-34-5	117.169	col liq or gas	-107	12.65	4.789 g/L	reac H ₂ O, EtOH
387	Tetrachlorodiborane	B ₂ Cl ₄	13701-67-2	163.433	col liq; flam	-92.6	65		reac H ₂ O
388	Boron trifluoride	BF ₃	7637-07-2	67.806	col gas	-126.8	-101	2.772 g/L	s H ₂ O
389	Tetrafluorodiborane	B ₂ F ₄	13965-73-6	97.616	col gas; flam	-56	-34	3.990 g/L	reac H ₂ O
390	Boron triiodide	BI ₃	13517-10-7	391.524	wh needles	49.7	209.5	3.35	i H ₂ O
391	Boron nitride	BN	10043-11-5	24.818	wh powder; hex or cub cry	2966		2.18	i H ₂ O, acid
392	Boron oxide	B ₂ O ₃	1303-86-2	69.620	col gl or hex cry; hyg	450		2.55	2.2 ²⁰ s EtOH
393	Boron phosphide	BP	20205-91-8	41.785	red cub cry or powder	1125 dec			reac H ₂ O, acid
394	Boron sulfide	B ₂ S ₃	12007-33-9	117.820	yel amorp solid	softens ≈320		≈1.7	
395	Bromine	Br ₂	7726-95-6	159.808	red liq	-7.2	58.8	3.1028	sl H ₂ O
396	Bromic acid	HBrO ₃	7789-31-3	128.910	stable only in aq soln				s H ₂ O
397	Bromine oxide	Br ₂ O	21308-80-5	175.807	brn solid	-17.5 dec			
398	Bromine dioxide	BrO ₂	21255-83-4	111.903	unstable yel cry	≈0 dec			
399	Bromine azide	BrN ₃	13973-87-0	121.924	red cry; exp	≈45	exp		
400	Bromine chloride	BrCl	13863-41-7	115.357	unstable red-brn gas	≈-66	≈5 dec	4.715 g/L	reac H ₂ O; s eth, CS ₂
401	Bromine fluoride	BrF	13863-59-7	98.902	unstable red-brn gas	≈-33	≈20 dec	4.043 g/L	
402	Bromine trifluoride	BrF ₃	7787-71-5	136.899	col hyg liq	8.77	125.8	2.803	reac H ₂ O
403	Bromine pentafluoride	BrF ₅	7789-30-2	174.896	col liq	-60.5	40.76	2.460	reac H ₂ O (exp)
404	Bromyl fluoride	BrO ₂ F	22585-64-4	130.901	col liq	-9	50 dec		reac H ₂ O
405	Cadmium	Cd	7440-43-9	112.411	silv-wh metal	321.069	767	8.69	i H ₂ O; reac acid
406	Cadmium acetate	Cd(C ₂ H ₃ O ₂) ₂	543-90-8	230.500	col cry	255		2.34	s H ₂ O, EtOH
407	Cadmium acetate dihydrate	Cd(C ₂ H ₃ O ₂) ₂ · 2H ₂ O	5743-04-4	266.529	wh cry	130 dec		2.01	vs H ₂ O; s EtOH
408	Cadmium antimonide	CdSb	12014-29-8	234.171	orth cry	456		6.92	
409	Cadmium arsenide	Cd ₃ As ₂	12006-15-4	487.076	gray tetr cry	721		6.25	
410	Cadmium azide	Cd(N ₃) ₂	14215-29-3	196.451	yel-wh orth cry; exp	exp		3.24	
411	Cadmium bromide	CdBr ₂	7789-42-6	272.219	wh hex powder or flakes; hyg	568	844	5.19	115 ²⁵ sl ace, eth
412	Cadmium bromide tetrahydrate	CdBr ₂ · 4H ₂ O	13464-92-1	344.281	wh-yel cry				115 ²⁵ s ace, EtOH
413	Cadmium carbonate	CdCO ₃	513-78-0	172.420	wh hex cry	500 dec		4.258	i H ₂ O; s acid
414	Cadmium chlorate dihydrate	Cd(ClO ₃) ₂ · 2H ₂ O	22750-54-5*	315.343	col hyg cry	80 dec		2.28	2.64 ⁰
415	Cadmium chloride	CdCl ₂	10108-64-2	183.316	rhomb cry; hyg	564	960	4.08	120 ²⁵ s ace; sl EtOH; i eth

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
416	Cadmium chloride hemipentahydrate	CdCl ₂ · 2.5H ₂ O	7790-78-5	228.354	wh rhomb leaflets			3.327	120 ²⁵	s ace
417	Cadmium chloride monohydrate	CdCl ₂ · H ₂ O	34330-64-8	201.331	wh cry				120 ²⁵	
418	Cadmium chromate	CdCrO ₄	14312-00-6	228.405	yel orth cry			4.5		i H ₂ O
419	Cadmium cyanide	Cd(CN) ₂	542-83-6	164.445	wh cub cry			2.23	1.7 ¹⁵	
420	Cadmium 2-ethylhexanoate	Cd(C ₈ H ₁₅ O ₂) ₂	2420-98-6	398.818	pow					
421	Cadmium fluoride	CdF ₂	7790-79-6	150.408	cub cry	1110	1748	6.33	4.36 ²⁵	s acid; i EtOH
422	Cadmium hydroxide	Cd(OH) ₂	21041-95-2	146.426	wh trig or hex cry	130 dec		4.79	0.00015 ²⁰	s dil acid
423	Cadmium iodate	Cd(IO ₃) ₂	7790-81-0	462.216	wh powder			6.48	0.091 ²⁵	s HNO ₃
424	Cadmium iodide	CdI ₂	7790-80-9	366.220	hex flakes	387	742	5.64	86.2 ²⁵	s EtOH, eth, ace
425	Cadmium metasilicate	CdSiO ₃	13477-19-5	188.495	grn monocl cry	1252		5.10		
426	Cadmium molybdate	CdMoO ₄	13972-68-4	272.35	col tetr cry	≈900 dec		5.4		i H ₂ O; s acid
427	Cadmium niobate	Cd ₂ Nb ₂ O ₇	12187-14-3	522.631	cub cry	≈1410		6.28		i H ₂ O
428	Cadmium nitrate	Cd(NO ₃) ₂	10325-94-7	236.420	wh cub cry; hyg	350		3.6	156 ²⁵	s EtOH
429	Cadmium nitrate tetrahydrate	Cd(NO ₃) ₂ · 4H ₂ O	10022-68-1	308.482	col orth cry; hyg	59.5		2.45	156 ²⁵	s EtOH, ace
430	Cadmium oxalate	CdC ₂ O ₄	814-88-0	200.430	wh solid			3.32	0.0060 ²⁵	
431	Cadmium oxalate trihydrate	CdC ₂ O ₄ · 3H ₂ O	20712-42-9	254.476	wh amor powder	340 dec			0.0060 ²⁵	i EtOH; s dil acid
432	Cadmium oxide	CdO	1306-19-0	128.410	brn cub cry		1559 sp	8.15		i H ₂ O; s dil acid
433	Cadmium perchlorate hexahydrate	Cd(ClO ₄) ₂ · 6H ₂ O	10326-28-0	419.403	wh hex cry			2.37	191.5 ²⁵	
434	Cadmium phosphate	Cd ₃ (PO ₄) ₂	13477-17-3	527.176	pow	≈1500				i H ₂ O
435	Cadmium phosphide	Cd ₃ P ₂	12014-28-7	399.181	gr tetr needles	700		5.96		s dil HCl
436	Cadmium selenate dihydrate	CdSeO ₄ · 2H ₂ O	10060-09-0	291.40	orth cry	100 dec		3.62	70.5 ²⁵	
437	Cadmium selenide	CdSe	1306-24-7	191.37	wh cub cry	1240		5.81		i H ₂ O
438	Cadmium sulfate	CdSO ₄	10124-36-4	208.475	col orth cry	1000		4.69	76.7 ²⁵	i EtOH
439	Cadmium sulfate monohydrate	CdSO ₄ · H ₂ O	7790-84-3	226.490	monocl cry	105		3.79	76.7 ²⁵	
440	Cadmium sulfate octahydrate	CdSO ₄ · 8H ₂ O	15244-35-6	352.597	col monocl cry	40 dec		3.08	76.7 ²⁵	
441	Cadmium sulfide	CdS	1306-23-6	144.477	yel-oran cub cry	1750		4.83		i H ₂ O; s acid
442	Cadmium telluride	CdTe	1306-25-8	240.01	brn-blk cub cry	1042		6.2		i H ₂ O, dil acid
443	Cadmium tetrafluoroborate	Cd(BF ₄) ₂	14486-19-2	286.020	col hyg liq			1.6		vs H ₂ O, EtOH
444	Cadmium titanate	CdTlO ₃	12014-14-1	208.276	orth cry			6.5		
445	Cadmium tungstate	CdWO ₄	7790-85-4	360.25	wh monocl cry			8.0		i H ₂ O, acid; s NH ₄ OH
446	Calcium	Ca	7440-70-2	40.078	silv-wh metal	842	1484	1.54		reac H ₂ O; i bz
447	Calcium acetate	Ca(C ₂ H ₃ O ₂) ₂	62-54-4	158.167	wh hyg cry	160 dec		1.50		s H ₂ O; sl EtOH
448	Calcium acetate monohydrate	Ca(C ₂ H ₃ O ₂) ₂ · H ₂ O	5743-26-0	176.182	wh needles or powder	≈150 dec				s H ₂ O; sl EtOH
449	Calcium aluminate	CaAl ₂ O ₄	12042-68-1	158.039	wh monocl cry	1605		2.98		reac H ₂ O
450	Calcium aluminate (β form)	Ca ₃ Al ₂ O ₆	12042-78-3	270.193	wh cub cry; refr	1535		3.04		i H ₂ O
451	Calcium arsenate	Ca ₃ (AsO ₄) ₂	7778-44-1	398.072	wh powder	dec		3.6	0.0036 ²⁰	s dil acid
452	Calcium arsenite	CaAsO ₃	52740-16-6	162.998	wh pow					sl H ₂ O; s acid
453	Calcium boride	CaB ₆	12007-99-7	104.944	refrac solid	2235		2.49		
454	Calcium bromide	CaBr ₂	7789-41-5	199.886	rhomb cry; hyg	742	1815	3.38	156 ²⁵	s EtOH, ace
455	Calcium bromide hexahydrate	CaBr ₂ · 6H ₂ O	13477-28-6	307.977	wh hyg powder	38 dec		2.29	156 ²⁵	
456	Calcium carbide	CaC ₂	75-20-7	64.099	gray-blk orth cry	2300		2.22		reac H ₂ O
457	Calcium carbonate (aragonite)	CaCO ₃	471-34-1	100.087	wh orth cry or powder	825 dec		2.83	0.00066 ²⁰	s dil acid
458	Calcium carbonate (calcite)	CaCO ₃	471-34-1	100.087	wh hex cry or powder	1330		2.71	0.00066 ²⁰	s dil acid
459	Calcium chlorate	Ca(ClO ₃) ₂	10137-74-3	206.979	wh cry	340			197 ²⁵	
460	Calcium chlorate dihydrate	Ca(ClO ₃) ₂ · 2H ₂ O	10035-05-9	243.010	wh monocl cry; hyg	100 dec		2.711	197 ²⁵	s EtOH

461	Calcium chloride	CaCl ₂	10043-52-4	110.983	wh cub cry or powder; hyg	775	1935.5	2.15	81.3 ²⁵	vs EtOH
462	Calcium chloride dihydrate	CaCl ₂ · 2H ₂ O	10035-04-8	147.014	hyg flakes or powder	175	dec	1.85	81.3 ²⁵	vs EtOH
463	Calcium chloride hexahydrate	CaCl ₂ · 6H ₂ O	7774-34-7	219.074	wh hex cry; hyg	30	dec	1.71	81.3 ²⁵	
464	Calcium chloride monohydrate	CaCl ₂ · H ₂ O	13477-29-7	128.998	wh hyg cry	260	dec	2.24	81.3 ²⁵	s EtOH
465	Calcium chromate dihydrate	CaCrO ₄ · 2H ₂ O	13765-19-0	192.102	yel orth cry			2.50	13.2 ²⁰	
466	Calcium cyanamide	CaCN ₂	156-62-7	80.102	col hex cry	≈1340	subl	2.29		reac H ₂ O
467	Calcium cyanide	Ca(CN) ₂	592-01-8	92.112	wh rhomb cry; hyg					s H ₂ O, EtOH
468	Calcium dichromate trihydrate	CaCr ₂ O ₇ · 3H ₂ O	14307-33-6*	310.112	red-oran cry	100	dec	2.37		vs H ₂ O; reac EtOH; i eth, ctc
469	Calcium 2-ethylhexanoate	Ca(C ₈ H ₁₅ O ₂) ₂	136-51-6	326.485	pow					
470	Calcium fluoride	CaF ₂	7789-75-5	78.075	wh cub cry or powder	1418	2533.4	3.18	0.0016 ²⁵	sl acid
471	Calcium formate	Ca(CHO ₂) ₂	544-17-2	130.113	orth cry	300	dec	2.02	16.6 ²⁰	i EtOH
472	Calcium hexafluoro-2,4-pentanedioate	Ca(CF ₃ COCHCOCF ₃) ₂	121012-90-6	454.180	pow	135				
473	Calcium hexafluorosilicate dihydrate	CaSiF ₆ · 2H ₂ O	16925-39-6	218.185	col tetr cry			2.25	0.52 ²⁰	i ace; reac hot H ₂ O
474	Calcium hydride	CaH ₂	7789-78-8	42.094	gray orth cry or powder	1000		1.7		reac H ₂ O, EtOH
475	Calcium hydrogen phosphate	CaHPO ₄	7757-93-9	136.057	wh tricr cry		dec	2.92	0.02 ²⁵	i EtOH
476	Calcium hydrogen phosphate dihydrate	CaHPO ₄ · 2H ₂ O	7789-77-7	172.088	monocl cry	≈100	dec	2.31	0.02 ²⁵	i EtOH; s dil acid
477	Calcium hydroxide	Ca(OH) ₂	1305-62-0	74.093	soft hex cry			≈2.2	0.160 ²⁰	s acid
478	Calcium hypochlorite	Ca(OCl) ₂	7778-54-3	142.982	pow	100		2.350		
479	Calcium hypophosphite	Ca(H ₂ PO ₂) ₂	7789-79-9	170.055	wh monocl cry	300	dec			s H ₂ O; i EtOH
480	Calcium iodate	Ca(IO ₃) ₂	7789-80-2	389.883	wh monocl cry			4.52	0.306 ²⁵	s HNO ₃ ; i EtOH
481	Calcium iodide	CaI ₂	10102-68-8	293.887	hyg hex cry	783		3.96	215 ²⁵	s MeOH, EtOH, ace; i eth
482	Calcium iodide hexahydrate	CaI ₂ · 6H ₂ O	71626-98-7	401.978	wh hex needles or powder	42	dec	2.55	215 ²⁵	vs EtOH
483	Calcium metaborate	Ca(BO ₂) ₂	13701-64-9	125.698	pow				0.13 ²⁰	
484	Calcium molybdate	CaMoO ₄	7789-82-4	200.02	wh tetr cry	965	dec	4.35	0.0011 ²⁰	i EtOH; s conc acid
485	Calcium nitrate	Ca(NO ₃) ₂	10124-37-5	164.087	wh cub cry; hyg	561		2.5	144 ²⁵	s EtOH, MeOH, ace
486	Calcium nitrate tetrahydrate	Ca(NO ₃) ₂ · 4H ₂ O	13477-34-4	236.149	wh cry	≈40	dec	1.82	144 ²⁵	s EtOH, ace
487	Calcium nitride	Ca ₃ N ₂	12013-82-0	148.247	red-brn cub cry	1195		2.67		s H ₂ O, acid; i EtOH
488	Calcium nitrite	Ca(NO ₂) ₂	13780-06-8	132.089	wh-yel hex cry; hyg			2.23	94.6 ²⁵	sl EtOH
489	Calcium oxalate	CaC ₂ O ₄	563-72-4	128.097	wh cry powder			2.2	0.00061 ²⁰	
490	Calcium oxalate monohydrate	CaC ₂ O ₄ · H ₂ O	5794-28-5	146.112	cub cry	200	dec	2.2	0.00061 ²⁰	s dil acid
491	Calcium oxide	CaO	1305-78-8	56.077	gray-wh cub cry	2898		3.34		reac H ₂ O; s acid
492	Calcium oxide silicate	Ca ₂ O·SiO ₂	12168-85-3	228.317	refrac solid	2150				
493	Calcium 2,4-pentanedioate	Ca(CH ₃ COCHCOCH ₃) ₂	19372-44-2	238.294	cry	175	dec			
494	Calcium perchlorate	Ca(ClO ₄) ₂	13477-36-6	238.978	wh cry	270	dec	2.65	188 ²⁵	s EtOH
495	Calcium permanganate	Ca(MnO ₄) ₂	10118-76-0	277.949	purp hyg cry			2.4	331 ²⁰	reac EtOH
496	Calcium peroxide	CaO ₂	1305-79-9	72.077	wh-yel tetr cry; hyg	≈200	dec	2.9		sl H ₂ O; s acid
497	Calcium phosphate	Ca ₃ (PO ₄) ₂	7758-87-4	310.177	wh amorp powder	1670		3.14	0.00012 ²⁰	i EtOH; s dil acid
498	Calcium dihydrogen phosphate monohydrate	Ca(H ₂ PO ₄) ₂ · H ₂ O	10031-30-8	252.068	col tricr plates	100	dec	2.220		sl H ₂ O; s dil acid
499	Calcium phosphide	Ca ₃ P ₂	1305-99-3	182.182	red-brn hyg cry	≈1600		2.51		reac H ₂ O; i EtOH, eth
500	Calcium propanoate	Ca(C ₂ H ₃ O ₂) ₂	4075-81-4	186.219	mono cry, pow					s H ₂ O; sl MeOH, EtOH; i ace, bz
501	Calcium pyrophosphate	Ca ₂ P ₂ O ₇	7790-76-3	254.099	wh powder	1353		3.09		i H ₂ O; s dil acid
502	Calcium selenate dihydrate	CaSeO ₄ · 2H ₂ O	7790-74-1	219.07	wh monocl cry			2.75	8.3 ¹⁸	
503	Calcium selenide	CaSe	1305-84-6	119.04	wh-brn cub cry	1400	dec	3.8		reac H ₂ O
504	Calcium metasilicate	CaSiO ₃	1344-95-2	116.162	wh monocl cry	1540		2.92		i H ₂ O
505	Calcium silicide	CaSi ₂	12013-56-8	96.249	gray hex cry	1040		2.50		i cold H ₂ O; reac hot H ₂ O; s acid
506	Calcium silicide	CaSi	12013-55-7	68.164	orth cry	1324		2.39		
507	Calcium stearate	Ca(C ₁₈ H ₃₅ O ₂) ₂	1592-23-0	607.017	granular pow	180				i H ₂ O, EtOH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
508	Calcium sulfate	CaSO ₄	7778-18-9	136.142	orth cry	1460		2.96	0.205 ²⁵	
509	Calcium sulfate dihydrate	CaSO ₄ · 2H ₂ O	10101-41-4	172.172	monocl cry or powder	150 dec		2.32	0.205 ²⁰	i os
510	Calcium sulfate hemihydrate	CaSO ₄ · 0.5H ₂ O	10034-76-1	145.149	wh powder				0.205 ²⁵	
511	Calcium sulfide	CaS	20548-54-3	72.144	wh-yel cub cry; hyg	2524		2.59		sl H ₂ O; i EtOH
512	Calcium sulfite dihydrate	CaSO ₃ · 2H ₂ O	10257-55-3	156.173	wh powder				0.0070 ²⁵	sl EtOH; s acid
513	Calcium telluride	CaTe	12013-57-9	167.68	wh cub cry	1600 dec		4.87		
514	Calcium tetrahydroaluminate	Ca(AIH ₄) ₂	16941-10-9	102.105	gray powder; flam					reac H ₂ O; s thf; i eth, bz
515	Calcium thiocyanate tetrahydrate	Ca(SCN) ₂ · 4H ₂ O	2092-16-2	228.306	hygr cry	160 dec				vs H ₂ O; s EtOH, ace
516	Calcium thiosulfate hexahydrate	CaS ₂ O ₃ · 6H ₂ O	10124-41-1	260.300	tricl cry	45 dec		1.87		s H ₂ O; i EtOH
517	Calcium titanate	CaTiO ₃	12049-50-2	135.943	cub cry	1980		3.98		
518	Calcium tungstate	CaWO ₄	7790-75-2	287.92	wh tetr cry	1620		6.06	0.2 ¹⁸	s hot acid
519	Calcium zirconate	CaZrO ₃	12013-47-7	179.300	pow	2550				
520	Californium	Cf	7440-71-3	251	hex or cub metal	900		15.1		
521	Carbon (diamond)	C	7782-40-3	12.011	col cub cry	4440 (12.4 GPa)		3.513		i H ₂ O
522	Carbon (graphite)	C	7782-42-5	12.011	soft blk hex cry	4489 tp (10.3 MPa)	3825 sp	2.2		i H ₂ O
523	Carbon (fullerene-C ₆₀)	C ₆₀	99685-96-8	720.642	yel needles or plates	>280				s os
524	Carbon (fullerene-C ₇₀)	C ₇₀	115383-22-7	840.749	red-brn solid	>280				s bz, tol
525	Fullerene fluoride	C ₆₀ F ₆₀	134929-59-2	1860.546	col plates	287				vs ace; s thf; i chl
526	Carbon monoxide	CO	630-08-0	28.010	col gas	-205.02	-191.5	1.145 g/L		sl H ₂ O; s chl, EtOH
527	Carbon dioxide	CO ₂	124-38-9	44.010	col gas	-56.56 tp	-78.4 sp	1.799 g/L		s H ₂ O
528	Carbon diselenide	CSe ₂	506-80-9	169.93	yel liq	-43.7	125.5	2.6626		i H ₂ O; vs ctc, tol
529	Carbon disulfide	CS ₂	75-15-0	76.143	col or yel liq	-112.1	46	1.2555		i H ₂ O; vs EtOH, bz, os
530	Carbon oxyselenide	COSe	1603-84-5	106.97	col gas; unstable	-124.4	-21.7	4.372 g/L		reac H ₂ O
531	Carbon oxysulfide	COS	463-58-1	60.076	col gas	-138.8	-50	2.456 g/L		s H ₂ O, EtOH
532	Carbon sulfide selenide	CSSe	5951-19-9	123.04	yel liq	-85	84.5	1.99		i H ₂ O
533	Carbon sulfide telluride	CSTe	10340-06-4	171.68	red-yel liq; unstable	-54	20 dec			reac H ₂ O
534	Carbon suboxide	C ₃ O ₂	504-64-3	68.031	col gas	-111.3	6.8	2.781 g/L		reac H ₂ O
535	Carbon subsulfide	C ₂ S ₂	627-34-9	100.164	red liq	-1	90 dec	1.27		reac H ₂ O
536	Carbonyl bromide	COBr ₂	593-95-3	187.818	col liq		64.5	2.5		reac H ₂ O
537	Carbonyl chloride	COCl ₂	75-44-5	98.915	col gas	-127.78	8	4.043 g/L		sl H ₂ O; s bz, tol
538	Carbonyl fluoride	COF ₂	353-50-4	66.007	col gas	-111.26	-84.57	2.698 g/L		reac H ₂ O
539	Cyanogen	C ₂ N ₂	460-19-5	52.034	col gas	-27.83	-21.1	2.127 g/L		sl H ₂ O, eth; s EtOH
540	Cyanogen bromide	BrCN	506-68-3	105.922	wh hyg needles	52	61.5	2.005		s H ₂ O, EtOH, eth
541	Cyanogen chloride	ClCN	506-77-4	61.470	col gas	-6.55	13	2.513 g/L		s H ₂ O, EtOH, eth
542	Cyanogen fluoride	FCN	1495-50-7	45.016	col gas	-82	-46	1.840 g/L		
543	Cyanogen iodide	ICN	506-78-5	152.922	col needles	146.7		1.84		s H ₂ O, EtOH, eth
544	Cerium	Ce	7440-45-1	140.116	silv metal; cub or hex	798	3443	6.770		s dil acid
545	Cerium boride	CeB ₃	12008-02-5	204.982	blue refrac solid; hex	2550		4.87		i H ₂ O, HCl
546	Cerium carbide	CeC ₂	12012-32-7	164.137	red hex cry	2250		5.47		reac H ₂ O
547	Cerium nitride	CeN	25764-08-3	154.123	refrac cub cry	2557		7.89		
548	Cerium silicide	CeSi ₂	12014-85-6	196.287	tetr cry	1620		5.31		i H ₂ O
549	Cerium(II) hydride	CeH ₂	13569-50-1	142.132	cub cry			5.45		reac H ₂ O
550	Cerium(II) iodide	CeI ₂	19139-47-0	393.925	bronze cry	808				
551	Cerium(II) sulfide	CeS	12014-82-3	172.182	yel cub cry	2445		5.9		
552	Cerium(III) bromide	CeBr ₃	14457-87-5	379.828	wh hex cry; hyg	733	1457			s H ₂ O

553	Cerium(III) bromide heptahydrate	CeBr ₃ · 7H ₂ O	7789-56-2	505.935	col hyg needles	732				s H ₂ O, EtOH
554	Cerium(III) carbide	Ce ₂ C ₃	12115-63-8	316.264	yel-brn cub cry	1505		6.9		
555	Cerium(III) carbonate hydrate	Ce ₂ (CO ₃) ₃ · 5H ₂ O	72520-94-6	550.335	wh powder					i H ₂ O; s dil acid
556	Cerium(III) chloride	CeCl ₃	7790-86-5	246.474	wh hex cry	817		3.97		s H ₂ O, EtOH
557	Cerium(III) chloride heptahydrate	CeCl ₃ · 7H ₂ O	18618-55-8	372.581	yel orth cry; hyg	90 dec				vs H ₂ O, EtOH
558	Cerium(III) fluoride	CeF ₃	7758-88-5	197.111	wh hex cry; hyg	1430		6.157		i H ₂ O
559	Cerium(III) iodide	CeI ₃	7790-87-6	520.829	yel orth cry; hyg	766				s H ₂ O
560	Cerium(III) iodide nonahydrate	CeI ₃ · 9H ₂ O	7790-87-6*	682.967	wh-red cry					vs H ₂ O; s EtOH
561	Cerium(III) nitrate hexahydrate	Ce(NO ₃) ₃ · 6H ₂ O	10108-73-3*	434.222	col-red cry	150 dec			176 ²⁵	s ace
562	Cerium(III) oxide	Ce ₂ O ₃	1345-13-7	328.230	yel-grn cub cry	2210	3730	6.2		i H ₂ O; s acid
563	Cerium(III) sulfate octahydrate	Ce ₂ (SO ₄) ₃ · 8H ₂ O	13454-94-9	712.545	wh orth cry	≈250 dec		2.87		s H ₂ O
564	Cerium(III) sulfide	Ce ₂ S ₃	12014-93-6	376.430	red cub cry	2450		5.02		i H ₂ O
565	Cerium(IV) fluoride	CeF ₄	10060-10-3	216.110	wh hyg powder	≈600 dec		4.77		i H ₂ O
566	Cerium(IV) oxide	CeO ₂	1306-38-3	172.115	wh-yel powder; cub	2400		7.65		i H ₂ O, dil acid
567	Cerium(IV) sulfate tetrahydrate	Ce(SO ₄) ₂ · 4H ₂ O	10294-42-5	404.305	yel-oran orth cry	180 dec		3.91	9.66 ²⁰	
568	Cesium	Cs	7440-46-2	132.905	silv-wh metal	28.5	671	1.93		reac H ₂ O
569	Cesium acetate	CsC ₂ H ₃ O ₂	3396-11-0	191.949	hyg lumps	194			10 ¹¹	
570	Cesium amide	CsNH ₂	22205-57-8	148.928	wh tetr cry			3.70		
571	Cesium azide	CsN ₃	22750-57-8	174.925	hyg tetr cry; exp	326		≈3.5	22 ⁴⁰	
572	Cesium bromate	CsBrO ₃	13454-75-6	260.807	col hex cry			4.11	3.83 ²⁵	
573	Cesium bromide	CsBr	7787-69-1	212.809	wh cub cry; hyg	636	≈1300	4.43	123 ²⁵	s EtOH; i ace
574	Cesium carbonate	Cs ₂ CO ₃	534-17-8	325.820	wh monocl cry; hyg	792		4.24	261 ¹⁵	s EtOH, eth
575	Cesium chlorate	CsClO ₃	13763-67-2	216.356	col hex cry			3.57	7.78 ²⁵	
576	Cesium chloride	CsCl	7647-17-8	168.358	wh cub cry; hyg	645	1297	3.988	191 ²⁵	s EtOH
577	Cesium cyanide	CsCN	21159-32-0	158.923	wh cub cry; hyg	350		3.34		vs H ₂ O
578	Cesium fluoride	CsF	13400-13-0	151.903	wh cub cry; hyg	703		4.64	573 ²⁵	s MeOH; i diox, py
579	Cesium formate	CsCHO ₂	3495-36-1	177.923	wh cry			1.017		vs H ₂ O
580	Cesium hydride	CsH	58724-12-2	133.913	wh cub cry; flam	≈170 dec		3.42		reac H ₂ O
581	Cesium hydrogen carbonate	CsHCO ₃	15519-28-5	193.922	rhom cry	175 dec			209 ¹⁵	s EtOH
582	Cesium hydrogen fluoride	CsHF ₂	12280-52-3	171.910	tetr cry	170		3.86		
583	Cesium hydrogen sulfate	CsHSO ₄	7789-16-4	229.977	col rhom prisms	dec		3.352		s H ₂ O
584	Cesium hydroxide	CsOH	21351-79-1	149.912	wh-yel hyg cry	342.3		3.68	300 ³⁰	s EtOH
585	Cesium iodate	CsIO ₃	13454-81-4	307.807	wh mono cry			4.85	2.6 ²⁵	
586	Cesium iodide	CsI	7789-17-5	259.809	col cub cry; hyg	621	≈1280	4.51	84.8 ²⁵	s EtOH, MeOH, ace
587	Cesium metaborate	CsBO ₂	92141-86-1	175.715	cub cry	732		≈3.7		
588	Cesium nitrate	CsNO ₃	7789-18-6	194.910	wh hex or cub cry	414		3.66	27.9 ²⁵	s ace; sl EtOH
589	Cesium oxide	Cs ₂ O	20281-00-9	281.810	yel-oran hex cry	490		4.65		vs H ₂ O
590	Cesium superoxide	CsO ₂	12018-61-0	164.904	yel tetr cry	432		3.77		reac H ₂ O
591	Cesium perchlorate	CsClO ₄	13454-84-7	232.356	wh orth cry; hyg	250		3.327	2.00 ²⁵	
592	Cesium periodate	CsIO ₄	13478-04-1	323.807	wh rhom prisms			4.26	2.2 ¹⁵	
593	Cesium sulfate	Cs ₂ SO ₄	10294-54-9	361.875	wh orth cry or hex prisms; hyg	1005		4.24	182 ²⁵	i EtOH, ace, py
594	Cesium sulfide tetrahydrate	Cs ₂ S · 4H ₂ O	12214-16-3	369.939	wh hyg cry					vs H ₂ O
595	Chlorine	Cl ₂	7782-50-5	70.905	grn-yel gas	-101.5	-34.04	2.898 g/L		sl H ₂ O
596	Hypochlorous acid	HOCl	7790-92-3	52.460	grn-yel; stable only in aq soln					s H ₂ O
597	Perchloric acid	HClO ₄	7601-90-3	100.459	col hyg liq	-112	≈90 dec	1.77		s H ₂ O
598	Chlorine monoxide	Cl ₂ O	7791-21-1	86.904	yel-brn gas	-120.6	2.2	3.552 g/L		vs H ₂ O
599	Chlorine dioxide	ClO ₂	10049-04-4	67.452	oran-grn gas	-59	11	2.757 g/L		sl H ₂ O
600	Chlorine trioxide	Cl ₂ O ₃	17496-59-2	118.903	dark brn solid	exp <25				

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
601	Chlorine hexoxide	Cl ₂ O ₆	12442-63-6	166.901	red liq	3.5	≈200			reac H ₂ O
602	Chlorine heptoxide	Cl ₂ O ₇	10294-48-1	182.901	col oily liq; exp	-91.5	82	1.9		reac H ₂ O
603	Chlorine fluoride	ClF	7790-89-8	54.451	col gas	-155.6	-101.1	2.226 g/L		reac H ₂ O
604	Chlorine trifluoride	ClF ₃	7790-91-2	92.448	gas	-76.34	11.75	3.779 g/L		reac H ₂ O
605	Chlorine trifluoride oxide	ClOF ₃	30708-80-6	108.447	col liq	-42	29			reac H ₂ O
606	Chlorine pentafluoride	ClF ₅	13637-63-3	130.445	col gas	-103	-13.1	5.332 g/L		
607	Chloryl fluoride	ClO ₂ F	13637-83-7	86.450	col gas	-15	-6	3.534 g/L		reac H ₂ O
608	Chloryl trifluoride	ClO ₂ F ₃	38680-84-1	124.447	col gas	-81	-22	5.087 g/L		reac H ₂ O
609	Perchloryl fluoride	ClO ₃ F	7616-94-6	102.449	col gas	-147	-46.75	4.187 g/L		
610	Chlorine perchlorate	ClOClO ₃	27218-16-2	134.903	unstable liq	-117	≈25 dec	1.81 ^o		
611	Chromium	Cr	7440-47-3	51.996	blue-wh metal; cub	1907	2671	7.15		reac dil acid
612	Chromium antimonide	CrSb	12053-12-2	173.756	hex cry	1110		7.11		
613	Chromium arsenide	Cr ₂ As	12254-85-2	178.914	tetr cry			7.04		
614	Chromium boride	CrB	12006-79-0	62.807	refrac orth cry	2100		6.1		
615	Chromium boride	CrB ₂	12007-16-8	73.618	refrac solid; hex	2200		5.22		
616	Chromium boride	Cr ₃ B ₃	12007-38-4	292.414	tetr cry	1900		6.10		
617	Chromium carbide	Cr ₃ C ₂	12012-35-0	180.009	gray orth cry	1895		6.68		
618	Chromium carbonyl	Cr(CO) ₆	13007-92-6	220.056	col orth cry	130 dec	subl	1.77		i H ₂ O, EtOH; s eth, chl
619	Chromium nitride	Cr ₂ N	12053-27-9	117.999	hex cry	1650		6.8		
620	Chromium nitride	CrN	24094-93-7	66.003	gray cub cry	1080 dec		5.9		
621	Chromium phosphide	CrP	26342-61-0	82.970	orth cry			5.25		
622	Chromium selenide	CrSe	12053-13-3	130.96	hex cry	≈1500		6.1		
623	Chromium silicide	Cr ₃ Si	12018-36-9	184.074	cub cry	1770		6.4		
624	Chromium silicide	CrSi ₂	12018-09-6	108.167	gray hex cry	1490		4.91		
625	Chromium(II) acetate monohydrate	Cr(C ₂ H ₃ O ₂) ₂ · H ₂ O	628-52-4*	188.100	red monocl cry			1.79		sl H ₂ O
626	Chromium(II) bromide	CrBr ₂	10049-25-9	211.804	wh monocl cry; aq soln blue	842		4.236		s H ₂ O, EtOH
627	Chromium(II) chloride	CrCl ₂	10049-05-5	122.901	hyg needles; aq soln blue	814	1300	2.88		s H ₂ O
628	Chromium(II) chloride tetrahydrate	Cr(H ₂ O) ₄ Cl ₂ · 4H ₂ O	13931-94-7	267.023	blue hyg cry	51 dec				s H ₂ O
629	Chromium(II) fluoride	CrF ₂	10049-10-2	89.993	blue-grn monocl cry	894		3.79		sl H ₂ O; i EtOH
630	Chromium(II) iodide	CrI ₂	13478-28-9	305.805	red-brn cry; hyg	868		5.1		
631	Chromium(II) oxalate monohydrate	CrC ₂ O ₄ · H ₂ O	814-90-4*	158.030	yel-grn powder			2.468		sl H ₂ O
632	Chromium(II) sulfate pentahydrate	CrSO ₄ · 5H ₂ O	13825-86-0	238.136	blue cry				21 ^o	s dil acid; sl EtOH; i ace
633	Chromium(II,III) oxide	Cr ₇ O ₄	12018-34-7	219.986	cub cry			6.1		
634	Chromium(III) acetate	Cr(C ₂ H ₃ O ₂) ₃	1066-30-4	229.127	bl-grn pwd					sl H ₂ O
635	Chromium(III) acetate hexahydrate	Cr(C ₂ H ₃ O ₂) ₃ · 6H ₂ O	1066-30-4*	337.220	blue needles					s H ₂ O
636	Chromium(III) bromide	CrBr ₃	10031-25-1	291.708	dark grn hex cry	1130		4.68		s hot H ₂ O
637	Chromium(III) bromide hexahydrate (β)	Cr(H ₂ O) ₆ Br ₃	10031-25-1*	399.799	viol hyg cry					s H ₂ O; i EtOH, eth
638	Chromium(III) bromide hexahydrate (α)	CrBr ₃ (H ₂ O) ₄ · 2H ₂ O	18721-05-6	399.799	grn hyg cry					s H ₂ O, EtOH
639	Chromium(III) chloride	CrCl ₃	10025-73-7	158.354	purp hex plates	1152	1300 dec	2.87		sl H ₂ O
640	Chromium(III) chloride hexahydrate	[CrCl ₂ (H ₂ O) ₄]Cl · 2H ₂ O	10060-12-5	266.445	grn monocl cry; hyg					s H ₂ O, EtOH; sl ace; i eth
641	Chromium(III) fluoride	CrF ₃	7788-97-8	108.991	grn needles	1400		3.8		i H ₂ O, EtOH
642	Chromium(III) fluoride trihydrate	CrF ₃ · 3H ₂ O	16671-27-5	163.037	grn hex cry			2.2		sl H ₂ O
643	Chromium(III) hydroxide trihydrate	Cr(OH) ₃ · 3H ₂ O	1308-14-1	157.063	blue-grn powder					i H ₂ O; s acid
644	Chromium(III) iodide	CrI ₃	13569-75-0	432.709	dark grn hex cry	500 dec		5.32		sl H ₂ O
645	Chromium(III) nitrate	Cr(NO ₃) ₃	13548-38-4	238.011	grn hyg powder	>60 dec				vs H ₂ O

646	Chromium(III) nitrate nonahydrate	Cr(NO ₃) ₃ · 9H ₂ O	7789-02-8	400.148	grn-blk monoc cry	66.3	>100 dec	1.80		vs H ₂ O
647	Chromium(III) oxide	Cr ₂ O ₃	1308-38-9	151.990	grn hex cry	2329	≈3000	5.22		i H ₂ O, EtOH; sl acid, alk
648	Chromium(III) 2,4-pentanedioate	Cr(CH ₃ COCHCOCH ₃) ₃	21679-31-2	349.320	red monoc cry	208	345	1.34		i H ₂ O; s bz
649	Chromium(III) phosphate	CrPO ₄	7789-04-0	146.967	blue orth cry	>1800		4.6		i H ₂ O, acid, aqua regia
650	Chromium(III) phosphate hemiheptahydrate	CrPO ₄ · 3.5H ₂ O	84359-31-9	210.021	blue-grn powder			2.15		i H ₂ O; s acid
651	Chromium(III) phosphate hexahydrate	CrPO ₄ · 6H ₂ O	84359-31-9	255.059	viol cry	>500 dec		2.121		i H ₂ O; s acid, alk
652	Chromium(III) potassium sulfate dodecahydrate	CrK(SO ₄) ₂ · 12H ₂ O	7788-99-0	499.405	viol-blk cub cry	89 dec		1.83		s H ₂ O; i EtOH
653	Chromium(III) sulfate	Cr ₂ (SO ₄) ₃	10101-53-8	392.183	red-brn hex cry			3.1	64 ²⁵	vs acid
654	Chromium(III) sulfide	Cr ₂ S ₃	12018-22-3	200.190	brn-blk hex cry			3.8		
655	Chromium(III) telluride	Cr ₂ Te ₃	12053-39-3	486.79	hex cry	≈1300		7.0		
656	Chromium(IV) chloride	CrCl ₄	15597-88-3	193.807	gas, stable at high temp		>600 dec	7.922 g/L		
657	Chromium(IV) fluoride	CrF ₄	10049-11-3	127.990	grn cry	277				
658	Chromium(IV) oxide	CrO ₂	12018-01-8	83.995	brn-blk tetr powder	≈400 dec		4.89		i H ₂ O; s acid
659	Chromium(V) fluoride	CrF ₅	14884-42-5	146.988	red orth cry	34	117			
660	Chromium(VI) fluoride	CrF ₆	13843-28-2	165.986	yel solid; stable at low temp	-100 dec				
661	Chromium(VI) oxide	CrO ₃	1333-82-0	99.994	red orth cry	197	≈250 dec	2.7	169 ²⁵	
662	Chromic acid	H ₂ CrO ₄	7738-94-5	118.010	aq soln only					s H ₂ O
663	Chromyl chloride	CrO ₂ Cl ₂	14977-61-8	154.900	red liq	-96.5	117	1.91		reac H ₂ O; s ctc, chl, bz
664	Cobalt	Co	7440-48-4	58.933	gray metal; hex or cub	1495	2927	8.86		s dil acid
665	Cobalt antimonide	CoSb	12052-42-5	180.693	hex cry	1202		8.8		
666	Cobalt arsenic sulfide	CoAsS	12254-82-9	165.921	silv-wh solid			≈6.1		
667	Cobalt arsenide	CoAs	27016-73-5	133.855	orth cry	1180		8.22		
668	Cobalt arsenide	CoAs ₂	12044-42-7	208.776	monoc cry			7.2		
669	Cobalt arsenide	CoAs ₃	12256-04-1	283.698	cub cry	942		6.84		
670	Cobalt boride	Co ₂ B	12045-01-1	128.677	refrac solid	1280		8.1		
671	Cobalt boride	CoB	12006-77-8	69.744	refrac solid	1460		7.25		reac H ₂ O, HNO ₃
672	Cobalt carbonyl	Co ₂ (CO) ₈	10210-68-1	341.947	oran cry	51 dec		1.78		i H ₂ O; s EtOH, eth, CS ₂
673	Cobalt phosphide	Co ₃ P	12134-02-0	148.840	gray needles	1386		6.4		i H ₂ O; s HNO ₃
674	Cobalt silicide	CoSi ₂	12017-12-8	115.104	gray cub cry	1326		4.9		s hot HCl
675	Cobalt disulfide	CoS ₂	12013-10-4	123.065	cub cry			4.3		
676	Cobalt dodecacarbonyl	Co ₄ (CO) ₁₂	17786-31-1	571.854	blk cry	60 dec		2.09		
677	Cobalt(II) acetate	Co(C ₂ H ₃ O ₂) ₂	71-48-7	177.022	pink cry					vs H ₂ O; s EtOH
678	Cobalt(II) acetate tetrahydrate	Co(C ₂ H ₃ O ₂) ₂ · 4H ₂ O	6147-53-1	249.082	red monoc cry			1.705		s H ₂ O, EtOH, dil acid
679	Cobalt(II) aluminate	CoAl ₂ O ₄	13820-62-7	176.894	blue cub cry			4.37		i H ₂ O
680	Cobalt(II) arsenate octahydrate	Co ₃ (AsO ₄) ₂ · 8H ₂ O	24719-19-5	598.760	red monoc needles	400 dec	1000 dec	3.0		i H ₂ O; s dil acid
681	Cobalt(II) bromate hexahydrate	Co(BrO ₃) ₂ · 6H ₂ O	13476-01-2	422.829	viol cry			≈2.5		vs H ₂ O
682	Cobalt(II) bromide	CoBr ₂	7789-43-7	218.741	grn hex cry; hyg	678		4.91	113.2 ²⁰	s MeOH, EtOH, ace
683	Cobalt(II) bromide hexahydrate	CoBr ₂ · 6H ₂ O	13762-12-4	326.832	red hyg cry	47 dec	100 dec	2.46	113.2	
684	Cobalt(II) carbonate	CoCO ₃	513-79-1	118.942	pink rhomb cry			4.2	0.00014 ²⁰	i EtOH
685	Cobalt(II) chloride	CoCl ₂	7646-79-9	129.838	blue hyg leaflets	740	1049	3.36	56.2 ²⁵	s EtOH, eth, ace, py
686	Cobalt(II) chloride dihydrate	CoCl ₂ · 2H ₂ O	16544-92-6	165.869	viol-blue cry			2.477	56.2 ²⁵	
687	Cobalt(II) chloride hexahydrate	CoCl ₂ · 6H ₂ O	7791-13-1	237.929	pink-red monoc cry	87 dec		1.924	56.2 ²⁵	s EtOH, ace, eth
688	Cobalt(II) chromate	CoCrO ₄	24613-38-5	174.927	yel-brn orth cry			≈4.0		i H ₂ O; s acid
689	Cobalt(II) chromite	CoCr ₂ O ₄	13455-25-9	226.923	blue-grn cub cry			5.14		i H ₂ O, conc acid
690	Cobalt(II) cyanide	Co(CN) ₂	542-84-7	110.967	blue hyg cry			1.872		i H ₂ O
691	Cobalt(II) cyanide dihydrate	Co(CN) ₂ · 2H ₂ O	20427-11-6	146.998	pink-brn needles					i H ₂ O, acid
692	Cobalt(II) ferricyanide	Co ₃ [Fe(CN) ₆] ₂	14049-81-1	600.699	red needles					i H ₂ O, HCl; s NH ₄ OH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
693	Cobalt(II) fluoride	CoF ₂	10026-17-2	96.930	red tetr cry	1127	≈1400	4.46	1.4 ²⁵	s acid
694	Cobalt(II) fluoride tetrahydrate	CoF ₂ · 4H ₂ O	13817-37-3	168.992	red orth cry	dec		2.22	1.4 ²⁵	
695	Cobalt(II) formate dihydrate	Co(CHO ₂) ₂ · 2H ₂ O	6424-20-0	184.998	red cry powder	140 dec		2.13	5.03 ²⁰	i EtOH
696	Cobalt(II) hexafluoro-2,4-pentanedioate	Co(CF ₃ COCHCOCF ₃) ₂	19648-83-0	473.035	pow	197				
697	Cobalt(II) hexafluorosilicate hexahydrate	CoSiF ₆ · 6H ₂ O	12021-68-0	309.100	pale red cry			2.087	76.8 ²²	
698	Cobalt(II) hydroxide	Co(OH) ₂	21041-93-0	92.948	blue-grn cry	≈160 dec		3.60		sl H ₂ O; s acid
699	Cobalt(II) iodate	Co(IO ₃) ₂	13455-28-2	408.738	blk-viol needles	200 dec		5.09	0.46 ²⁰	
700	Cobalt(II) iodide	CoI ₂	15238-00-3	312.742	blk hex cry; hyg	520		5.60	203 ²⁵	
701	Cobalt(II) iodide hexahydrate	CoI ₂ · 6H ₂ O	15238-00-3*	420.833	red hex prisms	130 dec		2.90	203 ²⁵	s EtOH, eth, ace
702	Cobalt(II) titanate	CoTiO ₃	12017-01-5	154.798	grn rhomb cry			5.0		
703	Cobalt(II) molybdate	CoMoO ₄	13762-14-6	218.87	blk monocl cry	1040		4.7		
704	Cobalt(II) nitrate	Co(NO ₃) ₂	10141-05-6	182.942	pale red powder	100 dec		2.49	103 ²⁵	
705	Cobalt(II) nitrate hexahydrate	Co(NO ₃) ₂ · 6H ₂ O	10026-22-9	291.034	red monocl cry; hyg	≈55		1.88	103 ²⁵	s EtOH
706	Cobalt(II) oxalate	CoC ₂ O ₄	814-89-1	146.952	pink powder	250 dec		3.02	0.0037 ²⁰	s acid, NH ₄ OH
707	Cobalt(II) oxalate dihydrate	CoC ₂ O ₄ · 2H ₂ O	5965-38-8	182.982	pink needles	dec			0.0037	sl acid; s NH ₄ OH
708	Cobalt(II) oxide	CoO	1307-96-6	74.932	gray cub cry	1830		6.44		i H ₂ O; s acid
709	Cobalt(II) perchlorate	Co(ClO ₄) ₂	13455-31-7	257.833	red needles			3.33	113 ²⁵	i EtOH, ace
710	Cobalt(II) phosphate octahydrate	Co ₃ (PO ₄) ₂ · 8H ₂ O	10294-50-5	510.865	pink amorf powder			2.77		i H ₂ O; s acid
711	Cobalt(II) potassium sulfate hexahydrate	CoK ₂ (SO ₄) ₂ · 6H ₂ O	10026-20-7	437.349	red monocl cry	75 dec		2.22		vs H ₂ O
712	Cobalt(II) selenate pentahydrate	CoSeO ₄ · 5H ₂ O	14590-19-3	291.97	red tricr cry	dec		2.51	55 ¹⁵	
713	Cobalt(II) selenide	CoSe	1307-99-9	137.89	yel hex cry	1055		7.65		i H ₂ O, alk; s aqua regia
714	Cobalt(II) selenite dihydrate	CoSeO ₃ · 2H ₂ O	19034-13-0	221.92	blue-red powder					i H ₂ O
715	Cobalt(II) orthosilicate	Co ₂ SiO ₄	12017-08-2	209.950	red-viol orth cry	1345		4.63		i H ₂ O; s dil HCl
716	Cobalt(II) stannate	Co ₂ SnO ₄	12139-93-4	300.574	grn-blue cub cry			6.30		i H ₂ O; s alk
717	Cobalt(II) sulfate	CoSO ₄	10124-43-3	154.997	red orth cry	>700		3.71	38.3 ²⁵	
718	Cobalt(II) sulfate heptahydrate	CoSO ₄ · 7H ₂ O	10026-24-1	281.103	pink monocl cry	41 dec		2.03	38.3 ²⁵	sl EtOH, MeOH
719	Cobalt(II) sulfate monohydrate	CoSO ₄ · H ₂ O	13455-34-0	173.012	red monocl cry			3.08	38.3 ²⁵	
720	Cobalt(II) sulfide	CoS	1317-42-6	90.999	blk amorf powder	1182		5.45		i H ₂ O; s acid
721	Cobalt(II) telluride	CoTe	12017-13-9	186.53	hex cry			≈8.8		
722	Cobalt(II) thiocyanate	Co(SCN) ₂	3017-60-5	175.099	yel-brn pow				103 ²⁵	s EtOH, MeOH, ace, eth
723	Cobalt(II) thiocyanate trihydrate	Co(SCN) ₂ · 3H ₂ O	97126-35-7	229.145	viol rhomb cry				103 ²⁵	s EtOH, eth, ace
724	Cobalt(II) tungstate	CoWO ₄	12640-47-0	306.77	blue monocl cry			≈7.8		i H ₂ O; s hot conc acid
725	Cobalt(II,III) oxide	Co ₃ O ₄	1308-06-1	240.798	blk cub cry	900 dec		6.11		i H ₂ O; s acid, alk
726	Cobalt(III) acetate	Co(C ₂ H ₃ O ₂) ₃	917-69-1	236.064	grn hyg cry	100 dec				s H ₂ O, EtOH
727	Cobalt(III) ammonium tetranitrodiammine	NH ₄ [Co(NH ₃) ₂ (NO ₂) ₄]	13600-89-0	295.054	red-brn orth cry			1.97		s H ₂ O
728	Cobalt(III) fluoride	CoF ₃	10026-18-3	115.928	brn hex cry	927		3.88		reac H ₂ O
729	Cobalt(III) hexammine chloride	Co(NH ₃) ₆ Cl ₃	10534-89-1	267.474	red monocl cry			1.71		s H ₂ O; i EtOH
730	Cobalt(III) hydroxide	Co(OH) ₃	1307-86-4	109.955	brn powder	dec		≈4		i H ₂ O; s acid
731	Cobalt(III) nitrate	Co(NO ₃) ₃	15520-84-0	244.948	grn cub cry; hyg			≈3.0		s H ₂ O; reac os
732	Cobalt(III) oxide	Co ₂ O ₃	1308-04-9	165.864	gray-blk powder	895 dec		5.18		i H ₂ O; s conc acid
733	Cobalt(III) oxide monohydrate	Co ₂ O ₃ · H ₂ O	12016-80-7	183.880	brn-blk hex cry	150 dec				i H ₂ O; s acid
734	Cobalt(III) potassium nitrite sesquihydrate	CoK ₃ (NO ₂) ₆ · 1.5H ₂ O	13782-01-9*	479.284	yel cub cry			2.6		sl H ₂ O; reac acid; i EtOH
735	Cobalt(III) sulfide	Co ₂ S ₃	1332-71-4	214.064	blk cub cry			4.8		reac acid
736	Cobalt(III) titanate	Co ₂ TiO ₄	12017-38-8	229.731	grn-blk cub cry			5.1		s conc HCl
737	Copper	Cu	7440-50-8	63.546	red metal; cub	1084.62	2562	8.96		sl dil acid

738	Copper(II) 2,4-pentanedioate	$\text{Cu}(\text{CH}_3\text{COCHCOCH}_3)_2$	13395-16-9	261.762	blue powder	284 dec	subl			sl H_2O ; s chl
739	Copper nitride	Cu_3N	1308-80-1	204.645	cub cry	300 dec		5.84		
740	Copper(II) 2-ethylhexanoate	$\text{Cu}(\text{C}_8\text{H}_{15}\text{O}_2)_2$	149-11-1	349.953	pow	252 dec				
741	Copper phosphide	Cu_3P_2	12019-11-3	125.494	monocl cry	≈ 900		4.20		
742	Copper silicide	Cu_3Si	12159-07-8	345.816	solid	825				
743	Copper(I) acetate	$\text{CuC}_2\text{H}_3\text{O}_2$	598-54-9	122.590	col cry	dec	subl			reac H_2O
744	Copper(I) acetylide	Cu_2C_2	1117-94-8	151.113	red amor powder; exp					
745	Copper(I) azide	CuN_3	14336-80-2	105.566	tetr cry; exp					
746	Copper(I) bromide	CuBr	7787-70-4	143.450	wh cub cry; hyg	497	1345	4.98	0.0012 ²⁰	i ace
747	Copper(I) chloride	CuCl	7758-89-6	98.999	wh cub cry	430	≈ 1400	4.14	0.0047 ²⁰	i EtOH, ace
748	Copper(I) cyanide	CuCN	544-92-3	89.564	wh powder or grn orth cry	474	dec	2.9		i H_2O ; EtOH; s KCN soln
749	Copper(I) fluoride	CuF	13478-41-6	82.544	cub cry			7.1		
750	Copper(I) hydride	CuH	13517-00-5	64.554	red-brn solid	60 dec				
751	Copper(I) iodide	CuI	7681-65-4	190.450	wh cub cry	606	≈ 1290	5.67	0.000020 ²⁰	i dil acid
752	Copper(I) mercury iodide	Cu_2HgI_4	13876-85-2	835.30	red cry powder	trans ≈ 60 (brn)				i H_2O ; EtOH
753	Copper(I) oxide	Cu_2O	1317-39-1	143.091	red-brn cub cry	1235	1800 dec	6.0		i H_2O
754	Copper(I) selenide	Cu_2Se	20405-64-5	206.05	blue-blk tetr cry	1113		6.84		i H_2O ; s acid
755	Copper(I) sulfide	Cu_2S	22205-45-4	159.158	blue-blk orth cry	≈ 1100		5.6		i H_2O ; sl acid
756	Copper(I) sulfite monohydrate	$\text{Cu}_2\text{SO}_3 \cdot \text{H}_2\text{O}$		225.172	cry			3.83		sl H_2O ; s HCl
757	Copper(I) sulfite hemihydrate	$\text{Cu}_2\text{SO}_3 \cdot 0.5\text{H}_2\text{O}$	13982-53-1*	216.164	wh-yel hex cry					sl H_2O ; s acid, alk; i EtOH, eth
758	Copper(I) telluride	Cu_2Te	12019-52-2	254.69	blue hex cry	1127		4.6		
759	Copper(I) thiocyanate	CuSCN	1111-67-7	121.630	wh-yel amor powder	1084		2.85		i H_2O , dil acid, EtOH, ace; s eth
760	Copper(I,II) sulfite dihydrate	$\text{Cu}_2\text{SO}_3 \cdot \text{CuSO}_3 \cdot 2\text{H}_2\text{O}$	13814-81-8	386.797	red prisms or powder					i H_2O ; EtOH; s HCl
761	Copper(II) acetate	$\text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2$	142-71-2	181.635	blue-grn hyg powder					
762	Copper(II) acetate metaarsenite	$\text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 3\text{Cu}(\text{AsO}_4)_2$	12002-03-8	1013.795	grn cry powder					i H_2O ; reac acid
763	Copper(II) acetate monohydrate	$\text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot \text{H}_2\text{O}$	6046-93-1	199.650	grn monocl cry	115	240 dec	1.88		s H_2O ; EtOH; sl eth
764	Copper(II) acetylide	Cu_2C_2	12540-13-5	87.567	brn-blk solid; exp	exp 100				
765	Copper(II) arsenate	$\text{Cu}_3(\text{AsO}_4)_2$	10103-61-4	468.476	blue-grn cry					i H_2O ; EtOH; s dil acid
766	Copper(II) arsenite	CuHAsO_3	10290-12-7	187.474	yel-grn powder					i H_2O ; EtOH; s acid
767	Copper(II) azide	$\text{Cu}(\text{N}_3)_2$	14215-30-6	147.586	brn orth cry; exp			≈ 2.6		
768	Copper(II) basic acetate	$\text{Cu}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot \text{CuO} \cdot 6\text{H}_2\text{O}$	52503-64-7	369.271	blue-grn cry or powder					sl H_2O ; EtOH; s dil acid, NH_4OH
769	Copper(II) borate	$\text{Cu}(\text{BO}_2)_2$	39290-85-2	149.166	blue-grn powder			3.859		i H_2O ; s acid
770	Copper(II) bromide	CuBr_2	7789-45-9	223.354	blk monocl cry; hyg	498	900	4.710	126 ²⁵	s EtOH, ace; i bz, eth
771	Copper(II) butanoate monohydrate	$\text{Cu}(\text{C}_4\text{H}_7\text{O}_2)_2 \cdot \text{H}_2\text{O}$	540-16-9	255.756	grn monocl plates					s H_2O , diox, bz; sl EtOH
772	Copper(II) carbonate hydroxide	$\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$	12069-69-1	221.116	grn monocl cry	200 dec		4.0		i H_2O ; EtOH; s dil acid
773	Copper(II) chlorate hexahydrate	$\text{Cu}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$	14721-21-2	338.539	blue-grn hyg cry	65	100 dec		164 ¹⁸	vs EtOH
774	Copper(II) chloride	CuCl_2	7447-39-4	134.451	yel-brn monocl cry; hyg	630 dec		3.4	75.7 ²⁵	s EtOH, ace
775	Copper(II) chloride dihydrate	$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$	10125-13-0	170.482	grn-blue orth cry; hyg	100 dec		2.51	75.7 ²⁰	vs EtOH, MeOH; s ace; i eth
776	Copper(II) chloride hydroxide	$\text{Cu}_2(\text{OH})_3\text{Cl}$	1332-65-6	213.567	pale grn cry					i H_2O ; s acid
777	Copper(II) chromate	CuCrO_4	13548-42-0	179.540	red-brn cry					i H_2O ; s EtOH
778	Copper(II) chromite	CuCr_2O_4	12018-10-9	231.536	gray-blk tetr cry			5.4		i H_2O , dil acid
779	Copper(II) citrate hemipentahydrate	$\text{Cu}_2\text{C}_6\text{H}_7\text{O}_7 \cdot 2.5\text{H}_2\text{O}$	10402-15-0	360.221	blue-grn cry	100 dec				sl H_2O ; s dil acid
780	Copper(II) cyanide	$\text{Cu}(\text{CN})_2$	14763-77-0	115.580	grn powder					i H_2O ; s acid, alk
781	Copper(II) cyclohexanebutanoate	$\text{Cu}(\text{C}_{10}\text{H}_{17}\text{O}_2)_2$	2218-80-6	402.028	pow	126 dec				
782	Copper(II) dichromate dihydrate	$\text{CuCr}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$	13675-47-3	315.565	red-brn tricl cry			2.286		vs H_2O
783	Copper(II) ethanolate	$\text{Cu}(\text{C}_2\text{H}_5\text{O})_2$	2850-65-9	153.667	blue hyg solid	120 dec				i os
784	Copper(II) ethylacetoacetate	$\text{Cu}(\text{C}_7\text{H}_9\text{CO}_2\text{CHCOCH}_3)_2$	14284-06-1	321.813	pow	192				s EtOH
785	Copper(II) ferrocyanide	$\text{Cu}_2\text{Fe}(\text{CN})_6$	13601-13-3	339.041	red-br cub cry or powder			2.2		i H_2O , acid, os

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
786	Copper(II) ferrous sulfide	CuFeS ₂	1308-56-1	183.523	yel tetr cry	950		4.2		i H ₂ O, HCl; s HNO ₃
787	Copper(II) fluoride	CuF ₂	7789-19-7	101.543	wh monocl cry	836	1676	4.23	0.075 ²⁵	
788	Copper(II) fluoride dihydrate	CuF ₂ · 2H ₂ O	13454-88-1	137.574	blue monocl cry	130 dec		2.934	0.075 ²⁵	
789	Copper(II) formate	Cu(CHO ₂) ₂	544-19-4	153.581	blue cry				12.5 ²⁰	i os
790	Copper(II) formate tetrahydrate	Cu(CHO ₂) ₂ · 4H ₂ O	5893-61-8	225.641	blue monocl cry				12.5	sl EtOH; i os
791	Copper(II) hexafluoro-2,4-pentanedioate	Cu(CF ₃ COCHOCF ₃) ₂	14781-45-4	477.648	cry	98	220 dec			s MeOH, ace, tol
792	Copper(II) hexafluorosilicate tetrahydrate	CuSiF ₆ · 4H ₂ O	12062-24-7	277.684	blue monocl cry	dec		2.56	99.7 ¹⁷	sl EtOH
793	Copper(II) hydroxide	Cu(OH) ₂	20427-59-2	97.561	blue-grn powder			3.37		i H ₂ O; s acid, conc alk
794	Copper(II) iodate	Cu(IO ₃) ₂	13454-89-2	413.351	grn mono cry	dec		5.241	0.15 ²⁰	s dil acid
795	Copper(II) iodate monohydrate	Cu(IO ₃) ₂ · H ₂ O	13454-90-5	431.367	blue tricl cry	248 dec		4.872	0.15 ²⁰	s dil H ₂ SO ₄
796	Copper(II) molybdate	CuMoO ₄	13767-34-5	223.48	grn cry	≈500		3.4	0.038	
797	Copper(II) nitrate	Cu(NO ₃) ₂	3251-23-8	187.555	blue-grn orth cry; hyg	255	subl		145 ²⁵	s diox; reac eth
798	Copper(II) nitrate hexahydrate	Cu(NO ₃) ₂ · 6H ₂ O	13478-38-1	295.647	blue rhomb cry; hyg			2.07	145 ²⁵	s EtOH
799	Copper(II) nitrate trihydrate	Cu(NO ₃) ₂ · 3H ₂ O	10031-43-3	241.602	blue rhomb cry	114	170 dec	2.32	145 ²⁵	vs EtOH
800	Copper(II) oleate	Cu(C ₁₈ H ₃₃ O ₂) ₂	1120-44-1	626.453	blue-grn solid					i H ₂ O; sl EtOH; s eth
801	Copper(II) oxalate	CuC ₂ O ₄	814-91-5	151.565	blue-wh powder	310 dec			0.0026 ²⁰	i EtOH, eth; s NH ₄ OH
802	Copper(II) oxalate hemihydrate	CuC ₂ O ₄ · 0.5H ₂ O	814-91-5*	144.573	blue-wh cry	200 dec			0.0026 ²⁰	s NH ₄ OH
803	Copper(II) oxide	CuO	1317-38-0	79.545	blk powder or monocl cry	1446		6.31		i H ₂ O, EtOH; s dil acid
804	Copper(II) perchlorate	Cu(ClO ₄) ₂	13770-18-8	262.446	grn hyg cry	130 dec			146 ³⁰	s eth, diox; i bz, ctc
805	Copper(II) perchlorate hexahydrate	Cu(ClO ₄) ₂ · 6H ₂ O	10294-46-9	370.538	blue monocl cry; hyg	82	120 dec	2.22	146 ³⁰	vs EtOH, HOAc, ace; sl eth
806	Copper(II) phosphate	Cu ₃ (PO ₄) ₂	7798-23-4	380.581	blue-grn tricl cry					i H ₂ O; s acid, NH ₄ OH
807	Copper(II) phosphate trihydrate	Cu ₃ (PO ₄) ₂ · 3H ₂ O	10031-48-8	434.627	blue-grn orth cry					i H ₂ O; s acid, NH ₄ OH
808	Copper(II) selenate pentahydrate	CuSeO ₄ · 5H ₂ O	10031-45-5	296.58	blue tricl cry	80 dec		2.56	27.4 ²⁵	s acid, NH ₄ OH; sl ace; i EtOH
809	Copper(II) selenide	CuSe	1317-41-5	142.51	blue-blk needles or plates	550 dec		5.99		reac acid
810	Copper(II) selenite dihydrate	CuSeO ₃ · 2H ₂ O	15168-20-4	226.54	blue orth cry			3.31		i H ₂ O; s acid, NH ₄ OH
811	Copper(II) stearate	Cu(C ₁₈ H ₃₅ O ₂) ₂	660-60-6	630.485	blue-grn amorp powder	≈250				i H ₂ O, EtOH, eth; s py
812	Copper(II) sulfate	CuSO ₄	7758-98-7	159.610	wh-grn amorp powder or rhomb cry	560 dec		3.60	22.0 ²⁵	i EtOH
813	Copper(II) sulfate pentahydrate	CuSO ₄ · 5H ₂ O	7758-99-8	249.686	blue tricl cry	110 dec		2.286	22.0 ²⁵	s MeOH; sl EtOH
814	Copper(II) sulfate, basic	Cu ₃ (OH) ₂ SO ₄	1332-14-5	354.731	grn rhomb cry			3.88		i H ₂ O
815	Copper(II) sulfide	CuS	1317-40-4	95.612	blk hex cry	trans 507		4.76		i H ₂ O, EtOH, dil acid, alk
816	Copper(II) tartrate trihydrate	CuC ₄ H ₄ O ₆ · 3H ₂ O	815-82-7	265.663	blue-grn powder					sl H ₂ O; s acid, alk
817	Copper(II) telluride	CuTe	12019-23-7	191.15	yel orth cry	trans =400		7.09		
818	Copper(II) tetrafluoroborate	Cu(BF ₄) ₂	14735-84-3	237.155	solid					s H ₂ O
819	Copper(II) tungstate	CuWO ₄	13587-35-4	311.38	yel-brn powder			7.5		
820	Copper(II) tungstate dihydrate	CuWO ₄ · 2H ₂ O	13587-35-4*	347.41	grn powder					i H ₂ O; sl HOAc; reac conc acid
821	Copper(II) vanadate	Cu(VO ₃) ₂	12789-09-2	261.425	pow					
822	Curium	Cm	7440-51-9	247	silv metal; hex or cub	1345	≈3100	13.51		
823	Dysprosium	Dy	7429-91-6	162.50	silv metal; hex	1412	2567	8.55		s dil acid
824	Dysprosium boride	DyB ₄	12310-43-9	205.74	tetr cry	2500		6.98		
825	Dysprosium nitride	DyN	12019-88-4	176.51	cub cry			9.93		
826	Dysprosium silicide	DySi ₂	12133-07-2	218.67	orth cry			5.2		
827	Dysprosium(II) chloride	DyCl ₂	13767-31-2	233.41	blk cry	721 dec				reac H ₂ O
828	Dysprosium(II) iodide	DyI ₂	36377-94-3	416.31	purp cry	659				reac H ₂ O
829	Dysprosium(III) bromide	DyBr ₃	14456-48-5	402.21	wh hyg cry	879				s H ₂ O
830	Dysprosium(III) chloride	DyCl ₃	10025-74-8	268.86	yel cry	680		3.67		s H ₂ O

831	Dysprosium(III) fluoride	DyF ₃	13569-80-7	219.50	grn cry	1154				
832	Dysprosium(III) hydride	DyH ₃	13537-09-2	165.52	hex cry				7.1	
833	Dysprosium(III) iodide	DyI ₃	15474-63-2	543.21	grn cry	978				
834	Dysprosium(III) nitrate pentahydrate	Dy(NO ₃) ₃ · 5H ₂ O	10143-38-1*	438.59	yel cry	88.6			208.4 ²⁵	
835	Dysprosium(III) oxide	Dy ₂ O ₃	1308-87-8	373.00	wh cub cry	2228	3900	7.81		s acid
836	Dysprosium(III) sulfide	Dy ₂ S ₃	12133-10-7	421.20	red-brn monocl cry			6.08		
837	Einsteinium	Es	7429-92-7	252	metal; cub	860				
838	Erbium	Er	7440-52-0	167.26	silv metal; hex	1529	2868	9.07		i H ₂ O; s acid
839	Erbium boride	ErB ₄	12310-44-0	210.50	tetr cry	2450		7.0		
840	Erbium bromide	ErBr ₃	13536-73-7	406.97	viol hyg cry	923				s H ₂ O
841	Erbium chloride	ErCl ₃	10138-41-7	273.62	viol monocl cry; hyg	776		4.1		s H ₂ O
842	Erbium chloride hexahydrate	ErCl ₃ · 6H ₂ O	10025-75-9	381.71	pink hyg cry	dec				s H ₂ O; sl EtOH
843	Erbium fluoride	ErF ₃	13760-83-3	224.26	pink orth cry	1147		7.8		i H ₂ O
844	Erbium hydride	ErH ₃	13550-53-3	170.28	hex cry			≈7.6		
845	Erbium iodide	ErI ₃	13813-42-8	547.97	viol hex cry; hyg	1014		≈5.5		s H ₂ O
846	Erbium nitrate pentahydrate	Er(NO ₃) ₃ · 5H ₂ O	10168-80-6*	443.35	red cry	130 dec			240.8 ²⁵	s EtOH, ace
847	Erbium nitride	ErN	12020-21-2	181.27	cub cry			10.6		
848	Erbium oxide	Er ₂ O ₃	12061-16-4	382.52	pink powder	2344	3920	8.64		i H ₂ O; s acid
849	Erbium silicide	ErSi ₂	12020-28-9	223.43	orth cry			7.26		
850	Erbium sulfate	Er ₂ (SO ₄) ₃	13478-49-4	622.71	hyg powder	dec		3.68	13 ²⁰	
851	Erbium sulfate octahydrate	Er ₂ (SO ₄) ₃ · 8H ₂ O	10031-52-4	766.83	pink monocl cry	dec		3.20	13 ²⁰	
852	Erbium sulfide	Er ₂ S ₃	12159-66-9	430.72	red-brn monocl cry	1730		6.07		
853	Erbium telluride	Er ₂ Te ₃	12020-39-2	717.32	orth cry	1213		7.11		
854	Europium	Eu	7440-53-1	151.964	soft silv metal; cub	822	1529	5.24		reac H ₂ O
855	Europium boride	EuB ₃	12008-05-8	216.830	cub cry	≈2600		4.91		
856	Europium nitride	EuN	12020-58-5	165.971	cub cry			8.7		
857	Europium silicide	EuSi ₂	12434-24-1	208.135	tetr cry	1500		5.46		
858	Europium(II) bromide	EuBr ₂	13780-48-8	311.772	wh cry	683				s H ₂ O
859	Europium(II) chloride	EuCl ₂	13769-20-5	222.869	wh orth cry	731		4.9		s H ₂ O
860	Europium(II) fluoride	EuF ₂	14077-39-5	189.961	grn-yel cub cry	≈1380		6.5		
861	Europium(II) iodide	EuI ₂	22015-35-6	405.773	grn cry	580				s H ₂ O
862	Europium(II) selenide	EuSe	12020-66-5	230.92	brn cub cry			6.45		
863	Europium(II) sulfate	EuSO ₄	10031-54-6	248.028	col orth cry			4.99		i H ₂ O
864	Europium(II) sulfide	EuS	12020-65-4	184.030	cub cry			5.7		
865	Europium(II) telluride	EuTe	12020-69-8	279.56	blk cub cry	1526		6.48		
866	Europium(III) bromide	EuBr ₃	13759-88-1	391.676	gray cry	dec				s H ₂ O
867	Europium(III) chloride	EuCl ₃	10025-76-0	258.322	grn-yel needles	623		4.89		
868	Europium(III) chloride hexahydrate	EuCl ₃ · 6H ₂ O	13759-92-7	366.413	wh-yel hyg cry	850		4.89		s H ₂ O
869	Europium(III) fluoride	EuF ₃	13765-25-8	208.959	wh hyg cry	1276				i H ₂ O
870	Europium(III) nitrate hexahydrate	Eu(NO ₃) ₃ · 6H ₂ O	10031-53-5	446.070	wh-pink hyg cry	85 dec			193 ²⁵	
871	Europium(III) oxide	Eu ₂ O ₃	1308-96-9	351.926	pink powder	2291	3790	7.42		i H ₂ O; s acid
872	Europium(III) sulfate	Eu ₂ (SO ₄) ₃	13537-15-0	592.119	pale pink cry			4.99	2.1 ²⁰	
873	Europium(III) sulfate octahydrate	Eu ₂ (SO ₄) ₃ · 8H ₂ O	10031-52-4	736.241	pink cry	375 dec			2.1 ²⁰	
874	Fermium	Fm	7440-72-4	257	metal	1527				
875	Fluorine	F ₂	7782-41-4	37.997	pale yel gas	-219.67 tp	-188.12	1.553 g/L		reac H ₂ O
876	Fluorine monoxide	F ₂ O	7783-41-7	53.996	col gas	-223.8	-144.75	2.207 g/L		sl H ₂ O
877	Fluorine dioxide	F ₂ O ₂	7783-44-0	69.996	gas, stable only at low temp	-154	-57	2.861 g/L		
878	Fluorine nitrate	FNO ₃	7789-26-6	81.003	col gas	-175	-46	3.311 g/L		reac H ₂ O, EtOH, eth; s ace

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
879	Fluorine perchlorate	FOClO ₃	10049-03-3	118.449	col gas; exp	-167.3	-16	4.841 g/L		reac H ₂ O
880	Francium	Fr	7440-73-5	223	short-lived alkali metal	27				
881	Gadolinium	Gd	7440-54-2	157.25	silv metal; hex	1313	3273	7.90		s dil acid
882	Gadolinium boride	GdB ₆	12008-06-9	222.12	blk-brn cub cry	2510		5.31		
883	Gadolinium nitride	GdN	25764-15-2	171.26	cub cry			9.10		
884	Gadolinium silicide	GdSi ₂	12134-75-7	213.42	orth cry			5.9		
885	Gadolinium(II) iodide	GdI ₂	13814-72-7	411.06	bronze cry	831				
886	Gadolinium(II) selenide	GdSe	12024-81-6	236.21	cub cry	2170		8.1		
887	Gadolinium(III) bromide	GdBr ₃	13818-75-2	396.96	wh monocl cry; hyg	770		4.56		
888	Gadolinium(III) chloride	GdCl ₃	10138-52-0	263.61	wh monocl cry; hyg	609		4.52		s H ₂ O
889	Gadolinium(III) chloride hexahydrate	GdCl ₃ · 6H ₂ O	19423-81-5	371.70	col hyg cry			2.424		s H ₂ O
890	Gadolinium(III) fluoride	GdF ₃	13765-26-9	214.25	wh cry	1231				
891	Gadolinium(III) iodide	GdI ₃	13572-98-0	537.96	yel cry	925				
892	Gadolinium(III) nitrate hexahydrate	Gd(NO ₃) ₃ · 6H ₂ O	19598-90-4	451.36	hyg tricr cry	91 dec		2.33	190 ²⁵	s EtOH
893	Gadolinium(III) nitrate pentahydrate	Gd(NO ₃) ₃ · 5H ₂ O	52788-53-1	433.34	wh cry	92 dec		2.41	190 ²⁵	
894	Gadolinium(III) oxide	Gd ₂ O ₃	12064-62-9	362.50	wh hyg powder	2339	3900	7.07		i H ₂ O; s acid
895	Gadolinium(III) sulfate octahydrate	Gd ₂ (SO ₄) ₃ · 8H ₂ O	13450-87-8	746.81	col monocl cry	400 dec		4.14	2.3 ²⁰	
896	Gadolinium(III) sulfide	Gd ₂ S ₃	12134-77-9	410.70	yel cub cry			6.1		
897	Gadolinium(III) telluride	Gd ₂ Te ₃	12160-99-5	697.30	orth cry	1255		7.7		
898	Gallium	Ga	7440-55-3	69.723	silv liq or gray orth cry	29.7666 tp	2204	5.91		reac alk
899	Gallium antimonide	GaSb	12064-03-8	191.483	cub cry	712		5.6137		
900	Gallium arsenide	GaAs	1303-00-0	144.645	gray cub cry	1238		5.3176		
901	Gallium nitride	GaN	25617-97-4	83.730	gray hex cry	>2500		6.1		
902	Gallium phosphide	GaP	12063-98-8	100.697	yel cub cry	1457		4.138		
903	Gallium suboxide	Ga ₂ O	12024-20-3	155.445	brn powder	>660	>800 dec	4.77		
904	Gallium(II) chloride	GaCl ₂	24597-12-4	140.628	wh orth cry	172.4	535	2.74		
905	Gallium(II) selenide	GaSe	12024-11-2	148.68	hex cry	960		5.03		
906	Gallium(II) sulfide	GaS	12024-10-1	101.789	hex cry	965		3.86		
907	Gallium(II) telluride	GaTe	12024-14-5	197.32	monocl cry	824		5.44		
908	Gallium(III) 2,4-pentanedioate	Ga(CH ₃ COCHCOCH ₃) ₃	14405-43-7	367.047	wh powder	193	subl	1.42		
909	Gallium(III) bromide	GaBr ₃	13450-88-9	309.435	wh orth cry	121.5	279	3.69		
910	Gallium(III) chloride	GaCl ₃	13450-90-3	176.081	col needles or gl solid	77.9	201	2.47		
911	Gallium(III) fluoride	GaF ₃	7783-51-9	126.718	wh powder or col needles	>1000		4.47		i H ₂ O
912	Gallium(III) fluoride trihydrate	GaF ₃ · 3H ₂ O	22886-66-4	180.764	wh cry	>140 dec				sl H ₂ O
913	Gallium(III) hydride	GaH ₃	13572-93-5	72.747	visc liq	-15	≈0 dec			
914	Gallium(III) hydroxide	Ga(OH) ₃	12023-99-3	120.745	unstable prec					
915	Gallium(III) iodide	Gal ₃	13450-91-4	450.436	monocl cry	212	340	4.5		
916	Gallium(III) nitrate	Ga(NO ₃) ₃	13494-90-1	255.738	wh cry powder					s H ₂ O, EtOH, eth
917	Gallium(III) oxide	Ga ₂ O ₃	12024-21-4	187.444	wh cry	1806		≈6.0		s hot acid
918	Gallium(III) oxide hydroxide	GaOOH	20665-52-5	102.730	orth cry			5.23		
919	Gallium(III) selenide	Ga ₂ Se ₃	12024-24-7	376.33	cub cry	937		4.92		
920	Gallium(III) sulfate	Ga ₂ (SO ₄) ₃	13494-91-2	427.637	hex cry					
921	Gallium(III) sulfate octadecahydrate	Ga ₂ (SO ₄) ₃ · 18H ₂ O	13780-42-2	751.912	octahed cry					s H ₂ O, EtOH
922	Gallium(III) sulfide	Ga ₂ S ₃	12024-22-5	235.644	monocl cry	1090		3.7		
923	Gallium(III) telluride	Ga ₂ Te ₃	12024-27-0	522.25	cub cry	790		5.57		

924	Germanium	Ge	7440-56-4	72.61	gray-wh cub cry	938.25	2833	5.3234	i H ₂ O, dil acid, alk
925	Germane	GeH ₄	7782-65-2	76.64	col gas; flam	-165	-88.1	3.133 g/L	i H ₂ O
926	Digermene	Ge ₂ H ₆	13818-89-8	151.27	col liq; flam	-109	29	1.98 ¹⁰⁹	
927	Trigermene	Ge ₃ H ₈	14691-44-2	225.89	col liq	-105.6	110.5	2.20 ¹⁰⁵	i H ₂ O
928	Tetragermene	Ge ₄ H ₁₀	14691-47-5	300.52	col liq		176.9		i H ₂ O
929	Pentagermene	Ge ₅ H ₁₂	15587-39-0	375.15	col liq		234		i H ₂ O
930	Bromogermene	GeH ₃ Br	13569-43-2	155.54	col liq	-32	52	2.34	reac H ₂ O
931	Chlorogermene	GeH ₃ Cl	13637-65-5	111.09	col liq	-52	28	1.75	reac H ₂ O
932	Chlorotrifluorogermene	GeF ₃ Cl	14188-40-0	165.06	gas	-66.2	-20.3	6.747 g/L	
933	Dibromogermene	GeH ₂ Br ₂	13769-36-3	234.43	col liq	-15	89	2.80	reac H ₂ O
934	Dichlorogermene	GeH ₂ Cl ₂	15230-48-5	145.53	col liq	-68	69.5	1.90	reac H ₂ O
935	Dichlorodifluorogermene	GeF ₂ Cl ₂	24422-21-7	181.51	col gas	-51.8	-2.8	7.419 g/L	
936	Fluorogermene	GeH ₃ F	13537-30-9	94.63	col gas			3.868 g/L	reac H ₂ O
937	Iodogermene	GeH ₃ I	13573-02-9	202.54	liq	-15	≈90		reac H ₂ O
938	Tribromogermene	GeHBr ₃	14779-70-5	313.33	col liq	-25	dec		reac H ₂ O
939	Trichlorogermene	GeHCl ₃	1184-65-2	179.98	liq	-71	75.3	1.93	reac H ₂ O
940	Trichlorofluorogermene	GeCl ₃ F	24422-20-6	197.97	liq	-49.8	37.5		
941	Methylgermane	GeH ₃ CH ₃	1449-65-6	90.67	col gas	-158	-23	3.706 g/L	
942	Germanium(II) bromide	GeBr ₂	24415-00-7	232.42	yel monocl cry	122	150 dec		reac H ₂ O
943	Germanium(II) chloride	GeCl ₂	10060-11-4	143.51	wh-yel hyg powder	dec			reac H ₂ O; s eth, bz
944	Germanium(II) fluoride	GeF ₂	13940-63-1	110.61	wh orth cry; hyg	110	130 dec	3.64	reac H ₂ O
945	Germanium(II) iodide	GeI ₂	13573-08-5	326.42	oran-yel hex cry	550 dec		5.4	reac H ₂ O
946	Germanium(II) oxide	GeO	20619-16-3	88.61	blk solid	700 dec			
947	Germanium(II) selenide	GeSe	12065-10-0	151.57	gray orth cry or brn powder	667		5.6	
948	Germanium(II) sulfide	GeS	12025-32-0	104.68	gray orth cry	615		4.1	
949	Germanium(II) telluride	GeTe	12025-39-7	200.21	cub cry	725		6.16	i H ₂ O; s conc HNO ₃
950	Germanium(IV) bromide	GeBr ₄	13450-92-5	392.23	wh cry	26.1	186.35	3.132	reac H ₂ O
951	Germanium(IV) chloride	GeCl ₄	10038-98-9	214.42	col liq	-51.50	86.55	1.88	reac H ₂ O; s bz, eth, EtOH, etc
952	Germanium(IV) fluoride	GeF ₄	7783-58-6	148.60	col gas	-15 tp	-36.5 sp	6.074 g/L	reac H ₂ O
953	Germanium(IV) iodide	GeI ₄	13450-95-8	580.23	red-oran cub cry	146	377	4.322	reac H ₂ O
954	Germanium(IV) nitride	Ge ₃ N ₄	12065-36-0	273.86	orth cry	900 dec			i H ₂ O, acid, aqua regia
955	Germanium(IV) oxide	GeO ₂	1310-53-8	104.61	wh hex cry	1115		4.25	i H ₂ O
956	Germanium(IV) selenide	GeSe ₂	12065-11-1	230.53	yel-oran orth ccry	707 dec		4.56	
957	Germanium(IV) sulfide	GeS ₂	12025-34-2	136.74	blk orth cry	530		3.01	
958	Gold	Au	7440-57-5	196.967	soft yel metal	1064.18	2856	19.3	s aqua regia
959	Bromoauric acid pentahydrate	HAuBr ₄ · 5H ₂ O	17083-68-0	607.667	red-brn hyg cry	27			s H ₂ O, EtOH
960	Chloroauric acid tetrahydrate	HAuCl ₄ · 4H ₂ O	16903-35-8	411.847	yel monocl cry; hyg			≈3.9	vs H ₂ O, EtOH; s eth
961	Gold(I) bromide	AuBr	10294-27-6	276.871	yel-gray tetr cry	165 dec		8.20	i H ₂ O
962	Gold(I) chloride	AuCl	10294-29-8	232.420	yel orth cry	289 dec		7.6	0.000031 ²⁰
963	Gold(I) cyanide	AuCN	506-65-0	222.985	yel hex cry	dec		7.2	i H ₂ O, EtOH, eth, dil acid
964	Gold(I) iodide	AuI	10294-31-2	323.871	yel-grn powder; tetr	120 dec		8.25	i H ₂ O; s CN soln
965	Gold(I) sulfide	Au ₂ S	1303-60-2	425.999	brn-blk cub cry; unstable	240 dec		≈11	i H ₂ O, acid; s aqua regia
966	Gold(III) bromide	AuBr ₃	10294-28-7	436.679	red-br monocl cry	≈160 dec			s H ₂ O, EtOH
967	Gold(III) chloride	AuCl ₃	13453-07-1	303.325	red monocl cry	>160 dec		4.7	68 ²⁰
968	Gold(III) cyanide trihydrate	Au(CN) ₃ · 3H ₂ O	535-37-5*	329.065	wh hyg cry	50 dec			vs H ₂ O; sl EtOH
969	Gold(III) fluoride	AuF ₃	14720-21-9	253.962	oran-yel hex cry	>300	subl	6.75	
970	Gold(III) hydroxide	Au(OH) ₃	1303-52-2	247.989	brn powder	≈100 dec			i H ₂ O; s acid
971	Gold(III) iodide	AuI ₃	31032-13-0	577.680	unstable grn powder	20 dec			

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
972	Gold(III) oxide	Au ₂ O ₃	1303-58-8	441.931	brn powder	≈150 dec				i H ₂ O; s acid
973	Gold(III) selenate	Au ₂ (SeO ₄) ₃	10294-32-3	822.81	yel cry					i H ₂ O; s acid
974	Gold(III) selenide	Au ₂ Se ₃	1303-62-4	630.81	blk amorp solid	dec		4.65		s aqua regia
975	Gold(III) sulfide	Au ₂ S ₃	1303-61-3	490.131	unstable blk powder	200 dec				
976	Hafnium	Hf	7440-58-6	178.49	gray metal; hex	2233	4603	13.3		s HF
977	Hafnium boride	HfB ₂	12007-23-7	200.11	gray hex cry	3100		10.5		
978	Hafnium(IV) bromide	HfBr ₄	13777-22-5	498.11	wh cub cry	424 tp	323 sp	4.90		
979	Hafnium carbide	HfC	12069-85-1	190.50	refrac cub cry	≈3000		12.2		
980	Hafnium(IV) chloride	HfCl ₄	13499-05-3	320.30	wh monocl cry	432 tp	317 sp			reac H ₂ O
981	Hafnium fluoride	HfF ₄	13709-52-9	254.48	wh monocl cry	>970	970 sp	7.1		
982	Hafnium hydride	HfH ₂	12770-26-2	180.51	refrac tetr cry			11.4		
983	Hafnium iodide	HfI ₄	13777-23-6	686.11	yel-oran cub cry	449 tp	394 sp	5.6		
984	Hafnium nitride	HfN	25817-87-2	192.50	yel-brn cub cry	3305		13.8		
985	Hafnium oxide	HfO ₂	12055-23-1	210.49	wh cub cry	2774		9.68		i H ₂ O
986	Hafnium oxychloride octahydrate	HfOCl ₂ · 8H ₂ O	14456-34-9	409.52	wh tetr cry	dec				s H ₂ O
987	Hafnium phosphide	HfP	12325-59-6	209.46	hex cry			9.78		
988	Hafnium selenide	HfSe ₂	12162-21-9	336.41	brn hex cry			7.46		
989	Hafnium orthosilicate	HfSiO ₄	13870-13-8	270.57	tetr cry			7.0		
990	Hafnium silicide	HfSi ₂	12401-56-8	234.66	gray orth cry	≈1700		7.6		
991	Hafnium sulfate	Hf(SO ₄) ₂	15823-43-5	370.62	wh cry	>500 dec				
992	Hafnium sulfide	HfS ₂	18855-94-2	242.62	purp-brn hex cry			6.03		
993	Helium	He	7440-59-7	4.003	col gas		-268.93	0.164 g/L		sl H ₂ O; i EtOH
994	Holmium	Ho	7440-60-0	164.930	silv metal; hex	1474	2700	8.80		s dil acid
995	Holmium bromide	HoBr ₃	13825-76-8	404.642	yel hyg cry	919	1470			
996	Holmium chloride	HoCl ₃	10138-62-2	271.288	yel monocl cry; hyg	718	1500	3.7		s H ₂ O
997	Holmium fluoride	HoF ₃	13760-78-6	221.925	pink-yel orth cry; hyg	1143	>2200	7.664		s H ₂ O
998	Holmium iodide	HoI ₃	13813-41-7	545.643	yel hex cry	994		5.4		
999	Holmium nitride	HoN	12029-81-1	178.937	cub cry			10.6		
1000	Holmium oxide	Ho ₂ O ₃	12055-62-8	377.859	yel cub cry	2330	3900	8.41		s acid
1001	Holmium silicide	HoSi ₂	12136-24-2	221.101	hex cry			7.1		
1002	Holmium sulfide	Ho ₂ S ₃	12162-59-3	426.059	yel-oran monocl cry			5.92		
1003	Hydrazine	N ₂ H ₄	302-01-2	32.045	col oily liq	1.4	113.55	1.0036		vs H ₂ O, EtOH, MeOH
1004	Hydrazine hydrate	N ₂ H ₄ · H ₂ O	7803-57-8	50.060	fuming liq	-51.7	119	1.030		vs H ₂ O, EtOH; i chl, eth
1005	Hydrazine hydrobromide	N ₂ H ₄ · HBr	13775-80-9	112.957	wh monocl cry flakes	84	≈190 dec	2.3		s H ₂ O, EtOH
1006	Hydrazine hydrochloride	N ₂ H ₄ · HCl	2644-70-4	68.506	wh orth cry	89	240 dec	1.5		s H ₂ O; i os
1007	Hydrazine dithydrochloride	N ₂ H ₄ · 2HCl	5341-61-7	104.966	wh orth cry	198 dec		1.42		s H ₂ O; sl EtOH
1008	Hydrazine hydroiodide	N ₂ H ₄ · HI	10039-55-1	159.957	hyg cry	125				s H ₂ O
1009	Hydrazine nitrate	N ₂ H ₄ · HNO ₃	13464-97-6	95.058	monocl cry; exp	70				vs H ₂ O
1010	Hydrazine sulfate	N ₂ H ₄ · H ₂ SO ₄	10034-93-2	130.125	col orth cry	254		1.378		sl H ₂ O; i EtOH
1011	Hydrazoic acid	HN ₃	7782-79-8	43.028	col liq; exp	-80	35.7			s H ₂ O
1012	Hydroxylamine	H ₂ NOH	7803-49-8	33.030	wh orth flakes or needles	33.1	58	1.21		vs H ₂ O, MeOH
1013	Hydroxylamine sulfate	(H ₂ NOH) ₂ · H ₂ SO ₄	10039-54-0	164.139	cry	170				vs H ₂ O
1014	Hydrogen	H ₂	1333-74-0	2.016	col gas; flam	-259.198 tp	-252.762	0.082 g/L		sl H ₂ O
1015	Hydrogen bromide	HBr	10035-10-6	80.912	col gas	-86.80	-66.38	3.307 g/L		vs H ₂ O; s EtOH
1016	Hydrogen chloride	HCl	7647-01-0	36.461	col gas	-114.17	-85	1.490 g/L		vs H ₂ O

1017	Hydrogen chloride dihydrate	HCl · 2H ₂ O	13465-05-9	72.492	col liq	-17.7		1.46	
1018	Hydrogen cyanide	HCN	74-90-8	27.026	col liq	-13.29	26	0.684	vs H ₂ O, EtOH; sl eth
1019	Hydrogen fluoride	HF	7664-39-3	20.006	col gas	-83.35	20	0.818 g/L	vs H ₂ O, EtOH; sl eth
1020	Hydrogen iodide	HI	10034-85-2	127.912	col or yel gas	-50.76	-35.55	5.228 g/L	vs H ₂ O; s os
1021	Hydrogen peroxide	H ₂ O ₂	7722-84-1	34.015	col liq	-0.43	150.2	1.44	vs H ₂ O
1022	Hydrogen selenide	H ₂ Se	7783-07-5	80.98	col gas; flam	-65.73	-41.25	3.310 g/L	s H ₂ O
1023	Hydrogen sulfide	H ₂ S	7783-06-4	34.082	col gas; flam	-85.5	-59.55	1.393 g/L	s H ₂ O
1024	Hydrogen disulfide	H ₂ S ₂	13465-07-1	66.148	col liq		70.7	1.334	
1025	Hydrogen telluride	H ₂ Te	7783-09-7	129.62	col gas	-49	-2	5.298 g/L	s H ₂ O, EtOH, alk
1026	Indium	In	7440-74-6	114.818	soft wh metal	156.60	2072	7.31	s acid
1027	Indium antimonide	InSb	1312-41-0	236.578	blk cub cry	525		5.7747	
1028	Indium arsenide	InAs	1303-11-3	189.740	gray cub cry	942		5.67	i acid
1029	Indium nitride	InN	25617-98-5	128.825	hex cry	1100		6.88	
1030	Indium phosphide	InP	22398-80-7	145.792	blk cub cry	1062		4.81	sl acid
1031	Indium(I) bromide	InBr	14280-53-6	194.722	oran-red orth cry	290	656	4.96	reac H ₂ O
1032	Indium(I) chloride	InCl	13465-10-6	150.271	yel cub cry	211	608	4.19	reac H ₂ O
1033	Indium(I) iodide	InI	13966-94-4	241.722	orth cry	364.4	712	5.32	
1034	Indium(II) bromide	InBr ₂	21264-43-7	274.626	orth cry			4.22	reac H ₂ O
1035	Indium(II) chloride	InCl ₂	13465-11-7	185.723	col orth cry	235		3.64	reac H ₂ O
1036	Indium(II) sulfide	InS	12030-14-7	146.884	red-brn orth cry	692		5.2	
1037	Indium(III) bromide	InBr ₃	13465-09-3	354.530	hyg yel-wh monocl cry	420		4.74	414 ²⁰
1038	Indium(III) chloride	InCl ₃	10025-82-8	221.176	yel monocl cry; hyg	583		4.0	195.1 ²² s EtOH
1039	Indium(III) fluoride	InF ₃	7783-52-0	171.813	wh hex cry; hyg	1170	>1200	4.39	sl H ₂ O; s dil acid
1040	Indium(III) fluoride trihydrate	InF ₃ · 3H ₂ O	14166-78-0	225.859	wh cry	100 dec			s H ₂ O
1041	Indium(III) hydroxide	In(OH) ₃	20661-21-6	165.840	cub cry			4.4	
1042	Indium(III) iodide	InI ₃	13510-35-5	495.531	yel-red monocl cry; hyg	207		4.69	1308 ²²
1043	Indium(III) oxide	In ₂ O ₃	1312-43-2	277.634	yel cub cry	1912		7.18	i H ₂ O; s hot acid
1044	Indium(III) perchlorate octahydrate	In(ClO ₄) ₃ · 8H ₂ O	13465-15-1	557.291	wh cry	≈80	200 dec		
1045	Indium(III) phosphate	InPO ₄	14693-82-4	209.789	wh orth cry			4.9	i H ₂ O
1046	Indium(III) selenide	In ₂ Se ₃	1312-42-1	466.52	blk hex cry	660		5.8	
1047	Indium(III) sulfate	In ₂ (SO ₄) ₃	13464-82-9	517.827	hyg wh powder			3.44	117 ²⁰
1048	Indium(III) sulfide	In ₂ S ₃	12030-24-9	325.834	oran cub cry	1050		4.45	
1049	Indium(III) telluride	In ₂ Te ₃	1312-45-4	612.44	blk cub cry	667		5.75	
1050	Iodine	I ₂	7553-56-2	253.809	blue-blk plates	113.7	184.4	4.933	0.03 ²⁰ s bz, EtOH, eth, etc, chl
1051	Iodic acid	HIO ₃	7782-68-5	175.910	col orth cry	110 dec		4.63	308 ²⁵ i EtOH, eth
1052	Periodic acid dihydrate	HIO ₄ · 2H ₂ O	10450-60-9	227.940	monocl hyg cry	122 dec			s H ₂ O, EtOH; sl eth
1053	Iodine tetroxide	I ₂ O ₄	12399-08-5	317.807	yel cry	85 dec		4.2	sl H ₂ O
1054	Iodine pentoxide	I ₂ O ₅	12029-98-0	333.806	hyg wh cry	≈300 dec		4.98	253.4 ²⁰ i EtOH, eth, CS ₂
1055	Iodine nonaoxide	I ₄ O ₉	73560-00-6	651.613	hyg yel powder	75 dec			
1056	Iodine bromide	IBr	7789-33-5	206.808	blk orth cry	40	116 dec	4.3	s H ₂ O, EtOH, eth
1057	Iodine chloride	ICl	7790-99-0	162.357	red cry or oily liq	27.39	100 dec	3.24	reac H ₂ O; s EtOH
1058	Iodine trichloride	ICl ₃	865-44-1	233.262	yel tricl cry; hyg	101 tp (16 atm)	64 sp dec	3.2	reac H ₂ O; s EtOH, bz
1059	Iodine fluoride	IF	13873-84-2	145.902	disproportionates at room temp				
1060	Iodine trifluoride	IF ₃	22520-96-3	183.899	yel solid, stable at low temp	-28 dec			
1061	Iodine pentafluoride	IF ₅	7783-66-6	221.896	yel liq	9.43	100.5	3.19	reac H ₂ O
1062	Iodine heptafluoride	IF ₇	16921-96-3	259.893	col gas	6.5 tp	4.8 sp	10.62 g/L	s H ₂ O
1063	Iridium	Ir	7439-88-5	192.217	silv-wh metal; cub	2446	4428	22.5	s aqua regia
1064	Iridium(III) sulfide	Ir ₂ S ₃	12136-42-4	480.632	orth cry			10.2	

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1065	Iridium(III) bromide	IrBr ₃	10049-24-8	431.929	red-brn monocry			6.82		i H ₂ O, acid, alk
1066	Iridium(III) bromide tetrahydrate	IrBr ₃ · 4H ₂ O	10049-24-8*	503.991	grn-brn cry					s H ₂ O; i EtOH
1067	Iridium(III) chloride	IrCl ₃	10025-83-9	298.575	brn monocry	763 dec		5.30		i H ₂ O, acid, alk
1068	Iridium(III) fluoride	IrF ₃	23370-59-4	249.212	blk hex cry	250 dec		≈8.0		i H ₂ O, dil acid
1069	Iridium(III) iodide	IrI ₃	7790-41-2	572.930	dark brn monocry			≈7.4		i H ₂ O, acid, bz, chl; s alk
1070	Iridium(III) oxide	Ir ₂ O ₃	1312-46-5	432.432	blue-blk cry	1000 dec				i H ₂ O; sl hot HCl
1071	Iridium(IV) chloride	IrCl ₄	10025-97-5	334.028	brn hyg solid	≈700 dec				s H ₂ O, EtOH
1072	Iridium(IV) oxide	IrO ₂	12030-49-8	224.216	brn tetr cry	1100 dec		11.7		
1073	Iridium(IV) sulfide	IrS ₂	12030-51-2	256.349	orth cry			9.3		
1074	Iridium(VI) fluoride	IrF ₆	7783-75-7	306.207	yel cub cry; hyg	44	53.6	4.8		reac H ₂ O
1075	Iron	Fe	7439-89-6	55.845	silv-wh or gray met	1538	2861	7.87		s dil acid
1076	Ferrocene	Fe(C ₅ H ₅) ₂	102-54-5	186.031	oran needles	172.5	249			i H ₂ O; s EtOH, eth, bz, dil HNO ₃
1077	Iron pentacarbonyl	Fe(CO) ₅	13463-40-6	195.896	yel oily liq; flam	-20	103	1.490		i H ₂ O; s eth, bz, ace
1078	Iron nonacarbonyl	Fe ₂ (CO) ₉	15321-51-4	363.781	oran-yel cry	100 dec		2.85		
1079	Iron dodecacarbonyl	Fe ₃ (CO) ₁₂	12088-65-2	503.656	blk cry	140		2.00		
1080	Iron hydrocarbonyl	FeH ₂ (CO) ₄	17440-90-3	169.902	col liq; unstable	-70	dec			s alk
1081	Iron arsenide	FeAs	12044-16-5	130.767	gray orth cry	1030		7.85		
1082	Iron boride	FeB	12006-84-7	66.656	refr solid; orth	1650		≈7		
1083	Iron boride	Fe ₂ B	12006-86-9	122.501	refr solid; tetr	1389		7.3		
1084	Iron carbide	Fe ₃ C	12011-67-5	179.546	gray cub cry	1227		7.694		
1085	Iron phosphide	FeP	26508-33-8	86.819	rhom cry			6.07		
1086	Iron phosphide	Fe ₂ P	1310-43-6	142.664	gray hex needles	1370		6.8		i H ₂ O, dil acid, alk
1087	Iron phosphide	Fe ₃ P	12023-53-9	198.509	gray solid	1100		6.74		i H ₂ O
1088	Iron disulfide	FeS ₂	1317-66-4	119.977	blk cub cry	>600 dec		5.02		i H ₂ O
1089	Iron silicide	FeSi	12022-95-6	83.931	gray cub cry	1410		6.1		
1090	Iron silicide	FeSi ₂	12022-99-0	112.016	gray tetr cry	1220		4.74		
1091	Iron(II) aluminate	Fe(AlO ₂) ₂	12068-49-4	173.806	blk cub cry			4.3		
1092	Iron(II) arsenate	Fe ₃ (AsO ₄) ₂	10102-50-8	445.373	grn pow					i H ₂ O
1093	Iron(II) arsenate hexahydrate	Fe ₃ (AsO ₄) ₂ · 6H ₂ O	10102-50-8*	553.465	grn amorp pow	dec				i H ₂ O; s acid
1094	Iron(II) bromide	FeBr ₂	7789-46-0	215.653	yel-brn hex cry; hyg	691	dec	4.636	120 ²⁵	vs EtOH
1095	Iron(II) bromide hexahydrate	FeBr ₂ · 6H ₂ O	13463-12-2	323.744	grn hyg cry	27 dec		4.64	120 ²⁵	s EtOH
1096	Iron(II) carbonate	FeCO ₃	563-71-3	115.854	gray-brn hex cry			3.9	0.000062 ²⁰	
1097	Iron(II) chloride	FeCl ₂	7758-94-3	126.750	wh hex cry; hyg	677	1023	3.16	65.0 ²⁵	vs EtOH, ace; sl bz
1098	Iron(II) chloride dihydrate	FeCl ₂ · 2H ₂ O	16399-77-2	162.781	wh-grn monocry	120 dec		2.39	65.0 ²⁵	
1099	Iron(II) chloride tetrahydrate	FeCl ₂ · 4H ₂ O	13478-10-9	198.812	grn monocry	105 dec		1.93	65.0 ²⁵	s EtOH
1100	Iron(II) chromite	FeCr ₂ O ₄	1308-31-2	223.835	blk cub cry			5.0		
1101	Iron(II) fluoride	FeF ₂	7789-28-8	93.842	wh tetr cry	1100		4.09		sl H ₂ O; s dil HF; i EtOH, eth
1102	Iron(II) fluoride tetrahydrate	FeF ₂ · 4H ₂ O	13940-89-1	165.904	col hex cry			2.20		
1103	Iron(II) hydroxide	Fe(OH) ₂	18624-44-7	89.860	wh-grn hex cry			3.4	0.000052 ²⁰	
1104	Iron(II) iodide	FeI ₂	7783-86-0	309.654	red-viol hex cry; hyg	587		5.3		s H ₂ O, EtOH, eth
1105	Iron(II) iodide tetrahydrate	FeI ₂ · 4H ₂ O	7783-86-0*	381.716	blk hyg leaflets	90 dec		2.87		s H ₂ O, EtOH
1106	Iron(II) molybdate	FeMoO ₄	13718-70-2	215.78	brn-yel monocry	1115		5.6		i H ₂ O
1107	Iron(II) nitrate	Fe(NO ₃) ₂	14013-86-6	179.854	grn solid				87.5 ²⁵	
1108	Iron(II) nitrate hexahydrate	Fe(NO ₃) ₂ · 6H ₂ O	14013-86-6*	287.946	grn solid	60 dec			87.5 ²⁵	
1109	Iron(II) oxalate dihydrate	FeC ₂ O ₄ · 2H ₂ O	6047-25-2	179.894	yel cry	150 dec		2.28	0.078 ²⁵	s acid

1110	Iron(II) oxide	FeO	1345-25-1	71.844	blk cub cry	1377		6.0		i H ₂ O, alk; s acid
1111	Iron(II) perchlorate	Fe(ClO ₄) ₂	13933-23-8	254.745	grn-wh hyg needles	>100 dec			210 ²⁵	
1112	Iron(II) phosphate octahydrate	Fe ₃ (PO ₄) ₂ · 8H ₂ O	14940-41-1	501.600	gray-blue monocl cry; hyg			2.58		i H ₂ O; s acid
1113	Iron(II) selenide	FeSe	1310-32-3	134.81	blk hex cry			6.7		i H ₂ O
1114	Iron(II) orthosilicate	Fe ₂ SiO ₄	10179-73-4	203.774	brn orth cry			4.30		
1115	Iron(II) sulfate	FeSO ₄	7720-78-7	151.909	wh orth cry; hyg			3.65	29.5 ²⁵	
1116	Iron(II) sulfate monohydrate	FeSO ₄ · H ₂ O	17375-41-6	169.924	wh-yel monocl cry	300 dec		3.0	29.5 ²⁵	
1117	Iron(II) sulfate heptahydrate	FeSO ₄ · 7H ₂ O	7782-63-0	278.015	blue-grn monocl cry	≈60 dec		1.895	29.5 ²⁵	i EtOH
1118	Iron(II) sulfide	FeS	1317-37-9	87.911	col hex or tetr cry; hyg	1188	dec	4.7		i H ₂ O; reac acid
1119	Iron(II) tantalate	Fe(TaO ₃) ₂		513.737	brn tetr cry			7.33		
1120	Iron(II) tartrate	FeC ₄ H ₄ O ₆		203.916	wh cry				0.88	vs acid; s NH ₄ OH
1121	Iron(II) telluride	FeTe	12125-63-2	183.45	tetr cry	914		6.8		
1122	Iron(II) thiocyanate trihydrate	Fe(SCN) ₂ · 3H ₂ O	6010-09-9	226.057	grn monocl cry					s H ₂ O, EtOH, eth
1123	Iron(II) titanate	FeTiO ₃	12168-52-4	151.710	blk rhomb cry	≈1470		4.72		
1124	Iron(II) tungstate	FeWO ₄	13870-24-1	303.68	monocl cry			7.51		
1125	Iron(II,III) oxide	Fe ₃ O ₄	1317-61-9	231.533	blk cub cry or amorp powder	1597		5.17		i H ₂ O; s acid
1126	Iron(III) acetate, basic	FeOH(C ₂ H ₃ O ₂) ₂	10450-55-2	190.941	brn-red amorp powder					i H ₂ O; s EtOH, acid
1127	Iron(III) 2,4-pentanedioate	Fe(CH ₃ COCHCOCH ₃) ₃	14024-18-1	353.169	red-oran cry	179		5.24		sl H ₂ O; s os
1128	Iron(III) arsenate dihydrate	FeAsO ₄ · 2H ₂ O	10102-49-5	230.795	grn-brn powder	dec		3.18		i H ₂ O; s dil acid
1129	Iron(III) bromide	FeBr ₃	10031-26-2	295.557	dark red hex cry; hyg	dec		4.5	455 ²⁵	s EtOH, eth
1130	Iron(III) chloride	FeCl ₃	7705-08-0	162.203	grn hex cry; hyg	304	≈316	2.90	91.2 ²⁵	s EtOH, eth, ace
1131	Iron(III) chloride hexahydrate	FeCl ₃ · 6H ₂ O	10025-77-1	270.294	yel-oran monocl cry; hyg	37 dec		1.82	91.2 ²⁵	s EtOH, eth, ace
1132	Iron(III) chromate	Fe ₂ (CrO ₄) ₃	10294-52-7	459.671	yel powder					i H ₂ O, EtOH; s acid
1133	Iron(III) citrate pentahydrate	FeC ₆ H ₅ O ₇ · 5H ₂ O	3522-50-7	335.021	red-brn cry					s H ₂ O; i EtOH
1134	Iron(III) dichromate	Fe ₂ (Cr ₂ O ₇) ₃	10294-53-8	759.654	red-brn solid					s H ₂ O, acid
1135	Iron(III) ferrocyanide	Fe ₄ [Fe(CN) ₆] ₃	14038-43-8	859.229	dark blue powder			1.80		i H ₂ O, dil acid, os
1136	Iron(III) fluoride	FeF ₃	7783-50-8	112.840	grn hex cry	>1000		3.87	5.92 ²⁵	i EtOH, eth, bz
1137	Iron(III) fluoride trihydrate	FeF ₃ · 3H ₂ O	15469-38-2	166.886	yel-brn tetr cry			2.3	5.92 ²⁵	
1138	Iron(III) formate	Fe(CHO ₂) ₃	555-76-0	190.897	red-yel cry pow					s H ₂ O; sl EtOH
1139	Iron(III) hydroxide	Fe(OH) ₃	1309-33-7	106.867	yel monocl cry			3.12		
1140	Iron(III) hydroxide oxide	FeO(OH)	20344-49-4	88.852	red-brn orth cry			4.26		i H ₂ O; s acid
1141	Iron(III) nitrate	Fe(NO ₃) ₃	10421-48-4	241.860	cry				82.5 ²⁰	
1142	Iron(III) nitrate hexahydrate	Fe(NO ₃) ₃ · 6H ₂ O	13476-08-9	349.951	viol cub cry	35 dec			82.5 ²⁰	
1143	Iron(III) nitrate nonahydrate	Fe(NO ₃) ₃ · 9H ₂ O	7782-61-8	403.997	viol-gray hyg cry	47 dec		1.68	82.5 ²⁰	vs EtOH, ace
1144	Iron(III) oxalate	Fe ₂ (C ₂ O ₄) ₃	19469-07-9	375.747	yel amorp powder	100 dec				s H ₂ O, acid; i alk
1145	Iron(III) oxide	Fe ₂ O ₃	1309-37-1	159.688	red-brn hex cry	1565		5.25		i H ₂ O; s acid
1146	Iron(III) phosphate dihydrate	FePO ₄ · 2H ₂ O	10045-86-0	186.847	gray-wh orth cry			2.87		i H ₂ O; s HCl
1147	Iron(III) pyrophosphate nonahydrate	Fe ₄ (P ₂ O ₇) ₃ · 9H ₂ O	10058-44-3	907.348	yel powder					i H ₂ O; s acid
1148	Iron(III) hypophosphite	Fe(H ₂ PO ₂) ₃	7783-84-8	250.811	wh-gray powder					i H ₂ O
1149	Iron(III) sodium pyrophosphate	FeNaP ₂ O ₇	10045-87-1	252.778	wh pow			1.5		i H ₂ O; s HCl
1150	Iron(III) sulfate	Fe ₂ (SO ₄) ₃	10028-22-5	399.881	gray-wh rhomb cry; hyg			3.10	440 ²⁰	sl EtOH; i ace
1151	Iron(III) sulfate nonahydrate	Fe ₂ (SO ₄) ₃ · 9H ₂ O	13520-56-4	562.018	yel hex cry	400 dec		2.1	440 ²⁰	
1152	Iron(III) thiocyanate monohydrate	Fe(SCN) ₃ · H ₂ O	4119-52-2	248.110	red hyg cry	dec				s H ₂ O, EtOH, ace; i tol, chl
1153	Iron(III) metavanadate	Fe(VO ₃) ₃	65842-03-7	352.665	gray-brn powder					i H ₂ O, EtOH; s acid
1154	Krypton	Kr	7439-90-9	83.80	col gas	-157.375 tp (73.2 kPa)	-153.34	3.425 g/L		sl H ₂ O
1155	Krypton difluoride	KrF ₂	13773-81-4	121.80	col tetr cry	≈25 dec		3.24		reac H ₂ O
1156	Lanthanum	La	7439-91-0	138.906	silv metal; hex	918	3464	6.15		s dil acid
1157	Lanthanum boride	LaB ₆	12008-21-8	203.772	blk cub cry; refrac	2715		4.76		

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1158	Lanthanum bromide	LaBr ₃	13536-79-3	378.618	wh hex cry; hyg	788		5.1		s H ₂ O
1159	Lanthanum carbide	LaC ₂	12071-15-7	162.927	tetr cry	2360		5.29		
1160	Lanthanum carbonate octahydrate	La ₂ (CO ₃) ₃ · 8H ₂ O	6487-39-4	601.960	wh cry powder			2.6		i H ₂ O; s dil acid
1161	Lanthanum chloride	LaCl ₃	10099-58-8	245.264	wh hex cry; hyg	859		3.84	95.7 ²⁵	
1162	Lanthanum chloride heptahydrate	LaCl ₃ · 7H ₂ O	20211-76-1	371.371	wh tricl cry; hyg	91 dec			95.7 ²⁵	s EtOH
1163	Lanthanum fluoride	LaF ₃	13709-38-1	195.901	wh hex cry; hyg	1493		5.9		i H ₂ O, acid
1164	Lanthanum hydride	LaH ₃	13864-01-2	141.930	blk cub cry			5.36		
1165	Lanthanum hydroxide	La(OH) ₃	14507-19-8	189.928	wh amorp solid	dec			0.000020 ²⁰	
1166	Lanthanum iodate	La(IO ₃) ₃	13870-19-4	663.614	col cry				1.7	
1167	Lanthanum iodide	LaI ₃	13813-22-4	519.619	wh orth cry; hyg	778		5.6		s H ₂ O
1168	Lanthanum nitrate hexahydrate	La(NO ₃) ₃ · 6H ₂ O	10277-43-7	433.012	wh hyg tricl cry	≈40 dec			200 ²⁵	vs EtOH; s ace
1169	Lanthanum nitride	LaN	25764-10-7	152.913	cub cry			6.73		
1170	Lanthanum oxide	La ₂ O ₃	1312-81-8	325.809	wh amorp powder	2304	3620	6.51		i H ₂ O; s dil acid
1171	Lanthanum silicide	LaSi ₂	12056-90-5	195.077	gray tetr cry			5.0		
1172	Lanthanum sulfate nonahydrate	La ₂ (SO ₄) ₃ · 9H ₂ O	10294-62-9	728.139	hex cry			2.82	2.7 ²⁰	i EtOH
1173	Lanthanum sulfide	La ₂ S ₃	12031-49-1	374.009	red cub cry	2110		4.9		
1174	Lanthanum sulfide	LaS	12031-30-0	170.972	yel cub cry	2300		5.61		
1175	Lawrencium	Lr	22537-19-5	262	metal	1627				
1176	Lead	Pb	7439-92-1	207.2	soft silv-gray metal; cub	327.462	1749	11.3		s conc acid
1177	Lead(II) acetate	Pb(C ₂ H ₃ O ₂) ₂	301-04-2	325.3	wh cry	280	dec	3.25	44.3 ²⁰	
1178	Lead(II) acetate trihydrate	Pb(C ₂ H ₃ O ₂) ₂ · 3H ₂ O	6080-56-4	427.3	col cry	75 dec		2.55		vs H ₂ O; sl EtOH
1179	Lead(II) acetate, basic	Pb(C ₂ H ₃ O ₂) ₂ · 2Pb(OH) ₂	1335-32-6	807.7	wh pow	dec			6.3 ⁰	
1180	Lead(II) antimonate	Pb ₃ (SbO ₄) ₂	13510-89-9	993.1	oran-yel powder			6.58		i H ₂ O, dil acid
1181	Lead(II) arsenate	Pb ₃ (AsO ₄) ₂	3687-31-8	899.4	wh cry	1042 dec		5.8		i H ₂ O; s HNO ₃
1182	Lead(II) arsenite	Pb(AsO ₂) ₂	10031-13-7	421.0	wh powder			5.85		i H ₂ O; s dil HNO ₃
1183	Lead(II) azide	Pb(N ₃) ₂	13424-46-9	291.2	col orth needles; exp	exp ≈350		4.7	0.023 ¹⁸	vs HOAc
1184	Lead(II) borate monohydrate	Pb(BO ₂) ₂ · H ₂ O	10214-39-8	310.8	wh powder	500 dec		5.6		i H ₂ O; s dil HNO ₃
1185	Lead(II) bromate monohydrate	Pb(BrO ₃) ₂ · H ₂ O	10031-21-7	481.0	col cry	≈180 dec		5.53	1.33 ²⁰	
1186	Lead(II) bromide	PbBr ₂	10031-22-8	367.0	wh orth cry	371	892	6.69	0.975 ²⁵	i EtOH
1187	Lead(II) butanoate	Pb(C ₄ H ₇ O ₂) ₂	819-73-8	381.4	col solid	≈90				i H ₂ O; s dil HNO ₃
1188	Lead(II) carbonate	PbCO ₃	598-63-0	267.2	col orth cry	≈315 dec		6.6		i H ₂ O
1189	Lead(II) carbonate, basic	Pb(OH) ₂ · 2PbCO ₃	1319-46-6	775.6	wh hex cry	400 dec		≈6.5		i H ₂ O, EtOH; s acid
1190	Lead(II) chlorate	Pb(ClO ₃) ₂	10294-47-0	374.1	col hyg cry	230 dec		3.9	144 ¹⁸	vs EtOH
1191	Lead(II) chloride	PbCl ₂	7758-95-4	278.1	wh orth needles or powder	501	951	5.98	1.08 ²⁵	s alk
1192	Lead(II) chloride fluoride	PbClF	13847-57-9	261.7	tetr cry			7.05	0.035 ²⁰	
1193	Lead(II) chromate	PbCrO ₄	7758-97-6	323.2	yel-oran monocl cry	844		6.12	0.000017 ²⁰	s alk, dil acid
1194	Lead(II) chromate(VI) oxide	PbCrO ₄ · PbO	18454-12-1	546.4	red powder					i H ₂ O
1195	Lead(II) citrate trihydrate	Pb ₃ (C ₆ H ₅ O ₇) ₂ · 3H ₂ O	512-26-5	1053.8	wh cry powder					s H ₂ O; sl EtOH
1196	Lead(II) cyanide	Pb(CN) ₂	592-05-2	259.2	wh-yel powder					sl H ₂ O; reac acid
1197	Lead(II) 2-ethylhexanoate	Pb(C ₈ H ₁₅ CO ₂) ₂	301-08-6	493.6	visc liq			1.56		
1198	Lead(II) fluoride	PbF ₂	7783-46-2	245.2	wh orth cry	830	1293	8.44	0.0670 ²⁵	
1199	Lead(II) fluoroborate	Pb(BF ₃) ₂	13814-96-5	380.8	stable only in aq soln					s H ₂ O
1200	Lead(II) formate	Pb(CHO ₂) ₂	811-54-1	297.2	wh prisms or needles	190 dec		4.63	1.6 ¹⁶	i EtOH
1201	Lead(II) hexafluoro-2,4-pentanedioate	Pb(CF ₃ COCHCOCF ₃) ₂	19648-88-5	621.3	cry	155	210			
1202	Lead(II) hydrogen arsenate	PbHAsO ₄	7784-40-9	347.1	wh monocl cry	280 dec		5.943		i H ₂ O; s HNO ₃ , alk

1203	Lead(II) hydrogen phosphate	PbHPO ₄	15845-52-0	303.2	wh monocl cry	dec		5.66	
1204	Lead(II) hydroxide	Pb(OH) ₂	19783-14-3	241.2	wh powder	145 dec		7.59	0.00012 ²⁰ s acid
1205	Lead(II) iodate	Pb(IO ₃) ₂	25659-31-8	557.0	wh orth cry			6.50	0.0025 ²⁵
1206	Lead(II) iodide	PbI ₂	10101-63-0	461.0	yel hex cry or powder	410	872 dec	6.16	0.076 ²⁵ i EtOH
1207	Lead(II) lactate	Pb(C ₃ H ₅ O ₃) ₂	18917-82-3	385.3	wh cry powder				s H ₂ O, hot EtOH
1208	Lead(II) molybdate	PbMoO ₄	10190-55-3	367.1	yel tetr cry	≈1060		6.7	i H ₂ O; s HNO ₃ , NaOH
1209	Lead(II) niobate	Pb(NbO ₃) ₂	12034-88-7	489.0	rhomb or tetr cry	1343		6.6	i H ₂ O
1210	Lead(II) nitrate	Pb(NO ₃) ₂	10099-74-8	331.2	col cub cry	470		4.53	59.7 ²⁵ sl EtOH
1211	Lead(II) oleate	Pb(C ₁₈ H ₃₃ O ₂) ₂	1120-46-3	770.1	wax-like solid				i H ₂ O; s EtOH, bz, eth
1212	Lead(II) oxalate	PbC ₂ O ₄	814-93-7	295.2	wh powder	300 dec		5.28	0.00025 ²⁰ s dil HNO ₃
1213	Lead(II) oxide (litharge)	PbO	1317-36-8	223.2	red tetr cry	trans to massicot 489		9.35	i H ₂ O, EtOH; s dil HNO ₃
1214	Lead(II) oxide (massicot)	PbO	1317-36-8	223.2	yel orth cry	897		9.64	i H ₂ O, EtOH; s dil HNO ₃
1215	Lead(II) oxide hydrate	3PbO · H ₂ O	1311-11-1	687.6	wh powder			7.41	i H ₂ O; s dil acid
1216	Lead(II) 2,4-pentanedioate	Pb(CH ₃ COCHCOCH ₃) ₂	15282-88-9	405.4	cry	143			
1217	Lead(II) perchlorate	Pb(ClO ₄) ₂	13453-62-8	406.1	wh cry				441 ²⁵
1218	Lead(II) perchlorate trihydrate	Pb(ClO ₄) ₂ · 3H ₂ O	13637-76-8	460.1	wh cry	100 dec		2.6	441 ²⁵ s EtOH
1219	Lead(II) phosphate	Pb ₃ (PO ₄) ₂	7446-27-7	811.5	wh hex cry	1014		7.01	i H ₂ O, EtOH
1220	Lead(II) hypophosphite	Pb(H ₂ PO ₂) ₂	10294-58-3	337.2	hyg cry powder	dec			sl H ₂ O; i EtOH
1221	Lead(II) metasilicate	PbSiO ₃	10099-76-0	283.3	wh monocl cry powder	764		6.49	i H ₂ O, os
1222	Lead(II) orthosilicate	Pb ₂ SiO ₄	13566-17-1	506.5	monocl cry	743		7.60	
1223	Lead(II) hexafluorosilicate dihydrate	PbSiF ₆ · 2H ₂ O	1310-03-8	385.3	col cry	dec			vs H ₂ O
1224	Lead(II) selenate	PbSeO ₄	7446-15-3	350.2	orth cry			6.37	0.013 ²⁵ s conc acid
1225	Lead(II) selenide	PbSe	12069-00-0	286.2	gray cub cry	1078		8.1	i H ₂ O; s HNO ₃
1226	Lead(II) selenite	PbSeO ₃	7488-51-9	334.2	wh monocl cry	≈500		7.0	i H ₂ O
1227	Lead(II) sodium thiosulfate	Na ₄ Pb(S ₂ O ₃) ₃	10101-94-7	635.6	wh cry				sl H ₂ O
1228	Lead(II) stearate	Pb(C ₁₈ H ₃₅ O ₂) ₂	1072-35-1	774.1	wh powder	≈100		1.4	i H ₂ O; s hot EtOH
1229	Lead(II) sulfate	PbSO ₄	7446-14-2	303.3	orth cry	1087		6.29	0.0044 ²⁵ i acid; sl alk
1230	Lead(II) sulfide	PbS	1314-87-0	239.3	blk powder or silv cub cry	1113		7.60	i H ₂ O; s acid
1231	Lead(II) sulfite	PbSO ₃	7446-10-8	287.3	wh powder	dec			i H ₂ O; s HNO ₃
1232	Lead(II) tantalate	Pb(TaO ₃) ₂	12065-68-8	665.1	orth cry			7.9	i H ₂ O
1233	Lead(II) telluride	PbTe	1314-91-6	334.8	gray cub cry	924		8.164	i H ₂ O, acid
1234	Lead(II) thiocyanate	Pb(SCN) ₂	592-87-0	323.4	wh-yel powder			3.82	0.05 ²⁰
1235	Lead(II) thiosulfate	PbS ₂ O ₃	13478-50-7	319.3	wh cry	dec		5.18	i H ₂ O; s acid
1236	Lead(II) titanate	PbTiO ₃	12060-00-3	303.1	yel tetr cry			7.9	i H ₂ O; reac HCl
1237	Lead(II) tungstate (stolzite)	PbWO ₄	7759-01-5	455.0	yel tetr cry	1130		8.24	0.03 ²⁰ s alk
1238	Lead(II) tungstate (raspite)	PbWO ₄	7759-01-5	455.0	monocl cry	trans 400		8.46	0.03 ²⁰ s alk
1239	Lead(II) metavanadate	Pb(VO ₃) ₂	10099-79-3	405.1	yel powder				i H ₂ O; reac HNO ₃
1240	Lead(II) zirconate	PbZrO ₃	12060-01-4	346.4	col orth cry			≈8	i H ₂ O, alk; s acid
1241	Lead(II,IV) oxide	Pb ₂ O ₃	1314-27-8	462.4	blk monocl cry or red amorp powder	530 dec		10.05	i H ₂ O; s alk; reac conc HCl
1242	Lead(II,II,IV) oxide	Pb ₃ O ₄	1314-41-6	685.6	red tetr cry	830		8.92	i H ₂ O, EtOH; s hot HCl
1243	Lead(IV) acetate	Pb(C ₂ H ₃ O ₂) ₄	546-67-8	443.4	col monocl cry	≈175		2.23	reac H ₂ O, EtOH; s bz, chl
1244	Lead(IV) bromide	PbBr ₄	13701-91-2	526.8	unstable liq				
1245	Lead(IV) chloride	PbCl ₄	13463-30-4	349.0	yel oily liq	-15	≈50 dec		
1246	Lead(IV) fluoride	PbF ₄	7783-59-7	283.2	wh tetr cry; hyg	≈600		6.7	
1247	Lead(IV) oxide	PbO ₂	1309-60-0	239.2	red tetr cry or brn powder	290 dec		9.64	
1248	Lithium	Li	7439-93-2	6.941	soft silv-wh metal	180.50	1342	0.534	reac H ₂ O
1249	Lithium acetate	LiC ₂ H ₃ O ₂	546-89-4	65.985	cry	286			45.0 ²⁵ vs EtOH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1250	Lithium acetate dihydrate	Li ₂ H ₃ O ₂ · 2H ₂ O	6108-17-4	102.016	wh rhomb cry	58 dec		1.3	45.0 ²⁵	s EtOH
1251	Lithium aluminum hydride	LiAlH ₄	16853-85-3	37.955	gray-wh monocl cry	>125 dec		0.917		reac H ₂ O, EtOH; s eth, thf
1252	Lithium amide	LiNH ₂	7782-89-0	22.964	tetr cry	380		1.18		reac H ₂ O
1253	Lithium arsenate	Li ₃ AsO ₄	13478-14-3	159.743	col orth cry			3.07		sl H ₂ O; s HOAc
1254	Lithium azide	LiN ₃	19597-69-4	48.961	hyg monocl cry; exp			1.83		vs H ₂ O
1255	Lithium metaborate	LiBO ₂	13453-69-5	49.751	wh monocl cry; hyg	849		2.18		vs H ₂ O; s EtOH
1256	Lithium borohydride	LiBH ₄	16949-15-8	21.784	wh-gray orth cry or powder	268	380 dec	0.66		s alk, eth, thf
1257	Lithium bromide	LiBr	7550-35-8	86.845	wh cub cry; hyg	552	≈1300	3.464	181 ²⁵	s EtOH, eth
1258	Lithium carbonate	Li ₂ CO ₃	554-13-2	73.891	wh monocl cry	723	1300 dec	2.11	1.30 ²⁵	s acid; i EtOH
1259	Lithium chlorate	LiClO ₃	13453-71-9	90.392	col hyg rhom needles	127.6	300 dec	1.119	459 ²⁵	vs EtOH; sl ace
1260	Lithium chloride	LiCl	7447-41-8	42.394	wh cub cry or powder; hyg	610	1383	2.07	84.5 ²⁵	s EtOH, ace, py
1261	Lithium chromate dihydrate	Li ₂ CrO ₄ · 2H ₂ O	7789-01-7	165.906	yel orth cry; hyg	75 dec		2.15		vs H ₂ O; s EtOH
1262	Lithium dichromate dihydrate	Li ₂ Cr ₂ O ₇ · 2H ₂ O	10022-48-7	265.901	yel-red hyg cry	130 dec		2.34		vs H ₂ O
1263	Lithium dihydrogen phosphate	LiH ₂ PO ₄	13453-80-0	103.928	col hyg cry	>100		2.461	126 ⁰	
1264	Lithium ferrosilicon	LiFeSi	64082-35-5	90.872	dark brittle cry					reac H ₂ O
1265	Lithium fluoride	LiF	7789-24-4	25.939	wh cub cry or powder	848.2	1673	2.640	0.134 ²⁵	s acid
1266	Lithium formate monohydrate	Li(CHO ₂) · H ₂ O	6108-23-2	69.974	col-wh cry			1.46		s H ₂ O
1267	Lithium hydride	LiH	7580-67-8	7.949	gray cub cry or powder; hyg	688.7		0.78		reac H ₂ O, EtOH
1268	Lithium hydroxide	LiOH	1310-65-2	23.948	col tetr cry	471.1	1626	1.45	12.5 ²⁵	sl EtOH
1269	Lithium hydroxide monohydrate	LiOH · H ₂ O	1310-66-3	41.964	wh monocl cry or powder			1.51	12.5 ²⁵	sl EtOH
1270	Lithium iodate	LiIO ₃	13765-03-2	181.843	wh hyg hex cry			4.502	77.9 ²⁵	i EtOH
1271	Lithium iodide	LiI	10377-51-2	133.845	wh cub cry; hyg	469	1171	4.06	165 ²⁵	
1272	Lithium iodide trihydrate	LiI · 3H ₂ O	7790-22-9	187.891	wh hyg cry	73		3.48	165 ²⁵	vs EtOH, ace
1273	Lithium niobate	LiNbO ₃	12031-63-9	147.845	wh hex cry	≈1240		4.30		
1274	Lithium nitrate	LiNO ₃	7790-69-4	68.946	col hex cry; hyg	253		2.38	102 ²⁵	s EtOH
1275	Lithium nitride	Li ₃ N	26134-62-3	34.830	red hex cry	813		1.27		reac H ₂ O
1276	Lithium nitrite monohydrate	LiNO ₂ · H ₂ O	13568-33-7*	70.962	col needles	>100		1.615	139.5 ²⁵	vs EtOH
1277	Lithium phosphate	Li ₃ PO ₄	10377-52-3	115.794	wh orth cry	1205		2.46	0.027 ²⁵	
1278	Lithium oxide	Li ₂ O	12057-24-8	29.881	wh cub cry	1570		2.013		
1279	Lithium perchlorate	LiClO ₄	7791-03-9	106.392	wh orth cry or powder	236	430 dec	2.428	58.7 ²⁵	s EtOH, ace, eth
1280	Lithium peroxide	Li ₂ O ₂	12031-80-0	45.881	wh hex cry			2.31		s H ₂ O; i EtOH
1281	Lithium selenate monohydrate	Li ₂ SeO ₄ · H ₂ O	7790-71-8	174.86	monocl cry			2.56		vs H ₂ O
1282	Lithium metasilicate	Li ₂ SiO ₃	10102-24-6	89.966	wh orth needles	1201		2.52		i cold H ₂ O; reac dil acid
1283	Lithium sulfate	Li ₂ SO ₄	10377-48-7	109.946	wh monocl cry; hyg	859		2.21	34.2 ²⁵	
1284	Lithium sulfate monohydrate	Li ₂ SO ₄ · H ₂ O	10102-25-7	127.961	col cry	130 dec		2.06	34.2 ²⁵	sl EtOH
1285	Lithium sulfide	Li ₂ S	12136-58-2	45.948	wh cub cry; hyg	1372		1.64		
1286	Lithium thiocyanate	LiSCN	556-65-0	65.025	wh hyg cry				120 ²⁵	
1287	Lutetium	Lu	7439-94-3	174.967	silv metal; hex	1663	3402	9.84		s dil acid
1288	Lutetium boride	LuB ₄	12688-52-7	218.211	tetr cry	2600		≈7.0		
1289	Lutetium bromide	LuBr ₃	14456-53-2	414.679	wh hyg cry	1025				vs H ₂ O
1290	Lutetium chloride	LuCl ₃	10099-66-8	281.325	wh monocl cry; hyg	925		3.98		s H ₂ O
1291	Lutetium fluoride	LuF ₃	13760-81-1	231.962	orth cry	1182	2200	8.3		i H ₂ O
1292	Lutetium iodide	LuI ₃	13813-45-1	555.680	brn hex cry; hyg	1050		≈5.6		vs H ₂ O
1293	Lutetium nitride	LuN	12125-25-6	188.974	cub cry			11.6		
1294	Lutetium oxide	Lu ₂ O ₃	12032-20-1	397.932	wh cub cry or powder	2427	3980	9.41		

1295	Lutetium sulfate octahydrate	$\text{Lu}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$	13473-77-3	782.247	wh cry					vs H_2O
1296	Lutetium sulfide	Lu_2S_3	12163-20-1	446.132	gray rhomb cry	1750 dec		6.26		
1297	Lutetium telluride	Lu_2Te_3	12163-22-3	732.73	orth cry			7.8		
1298	Magnesium	Mg	7439-95-4	24.305	silv-wh metal	650	1090	1.74		s dil acid
1299	Magnesium acetate	$\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2$	142-72-3	142.394	wh orth/mcl cry	323 dec		1.50	65.6 ²⁵	
1300	Magnesium acetate tetrahydrate	$\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 4\text{H}_2\text{O}$	16674-78-5	214.454	col monocl cry; hyg	80 dec		1.45	65.6 ²⁵	vs EtOH
1301	Magnesium amide	$\text{Mg}(\text{NH}_2)_2$	7803-54-5	56.350	wh powder; flam	dec		1.39		reac H_2O
1302	Magnesium antimonide	Mg_3Sb_2	12057-75-9	316.435	hex cry	1245		3.99		
1303	Magnesium boride	MgB_2	12007-25-9	45.927	hex cry	800 dec		2.57		
1304	Magnesium bromate hexahydrate	$\text{Mg}(\text{BrO}_3)_2 \cdot 6\text{H}_2\text{O}$	7789-36-8	388.201	col cub cry	200 dec		2.29	98 ²⁵	
1305	Magnesium bromide	MgBr_2	7789-48-2	184.113	wh hex cry; hyg	711		3.72	102 ²⁵	
1306	Magnesium bromide hexahydrate	$\text{MgBr}_2 \cdot 6\text{H}_2\text{O}$	13446-53-2	292.204	col monocl cry	165 dec		2.0	102 ²⁵	s EtOH
1307	Magnesium carbonate	MgCO_3	546-93-0	84.314	wh hex cry	990		3.05	0.18 ²⁰	i EtOH; s acid
1308	Magnesium chlorate hexahydrate	$\text{Mg}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$	13446-19-0	299.298	wh hyg cry	≈35 dec		1.80	142 ²⁵	sl EtOH
1309	Magnesium chloride	MgCl_2	7786-30-3	95.210	wh hex leaflets; hyg	714	1412	2.325	56.0 ²⁵	
1310	Magnesium chloride hexahydrate	$\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$	7791-18-6	203.301	wh hyg cry	≈100 dec		1.56	56.0 ²⁵	s EtOH
1311	Magnesium chromate heptahydrate	$\text{MgCrO}_4 \cdot 7\text{H}_2\text{O}$	13423-61-5*	266.405	yel rhom cry			1.695	54.8 ²⁵	
1312	Magnesium fluoride	MgF_2	7783-40-6	62.302	wh tetr cry	1263	2227	3.148	0.013 ²⁵	
1313	Magnesium formate dihydrate	$\text{Mg}(\text{CHO}_2)_2 \cdot 2\text{H}_2\text{O}$	6150-82-9	150.370	wh cry	dec				s H_2O ; i EtOH
1314	Magnesium germanide	Mg_2Ge	1310-52-7	121.22	cub cry	1117		3.09		
1315	Magnesium hydride	MgH_2	7693-27-8	26.321	wh tetr cry	327		1.45		reac H_2O
1316	Magnesium hydrogen phosphate trihydrate	$\text{MgHPO}_4 \cdot 3\text{H}_2\text{O}$	7757-86-0	174.331	wh powder	550 dec		2.13		sl H_2O ; s dil acid
1317	Magnesium hydroxide	$\text{Mg}(\text{OH})_2$	1309-42-8	58.320	wh hex cry	350		2.37	0.00069 ²⁰	s dil acid
1318	Magnesium iodate tetrahydrate	$\text{Mg}(\text{IO}_3)_2 \cdot 4\text{H}_2\text{O}$	7790-32-1*	446.172	col mono cry	210 dec		3.3	11.1 ²⁵	
1319	Magnesium iodide	MgI_2	10377-58-9	278.114	wh hex cry; hyg	634		4.43	146 ²⁵	
1320	Magnesium iodide octahydrate	$\text{MgI}_2 \cdot 8\text{H}_2\text{O}$	7790-31-0	422.236	wh orth cry; hyg	41 dec		2.10	146 ²⁵	s EtOH
1321	Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	10377-60-3	148.314	wh cub cry			≈2.3	71.2 ²⁵	
1322	Magnesium nitrate dihydrate	$\text{Mg}(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$	15750-45-5	184.345	wh cry	≈100 dec		1.45	71.2 ²⁵	s EtOH
1323	Magnesium nitrate hexahydrate	$\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	13446-18-9	256.406	col monocl cry; hyg	≈95 dec		1.46	71.2 ²⁵	s EtOH
1324	Magnesium nitride	Mg_3N_2	12057-71-5	100.928	yel cub cry	≈1500 dec		2.71		
1325	Magnesium nitrite trihydrate	$\text{Mg}(\text{NO}_2)_2 \cdot 3\text{H}_2\text{O}$	15070-34-5	170.362	wh hyg prisms	100 dec			129.9 ²⁵	s EtOH
1326	Magnesium oxalate	MgC_2O_4	547-66-0	112.324	wh pdw				0.038 ²⁵	
1327	Magnesium oxalate dihydrate	$\text{MgC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$	6150-88-5	148.354	wh powder				0.038 ²⁵	i EtOH; s dil acid
1328	Magnesium oxide	MgO	1309-48-4	40.304	wh cub cry	2825	3600	3.6		sl H_2O ; i EtOH
1329	Magnesium perchlorate	$\text{Mg}(\text{ClO}_4)_2$	10034-81-8	223.205	wh hyg powder	250 dec		2.2	100 ²⁵	
1330	Magnesium perchlorate hexahydrate	$\text{Mg}(\text{ClO}_4)_2 \cdot 6\text{H}_2\text{O}$	13446-19-0	331.297	wh hyg cry	190 dec		1.98	100 ²⁵	s EtOH
1331	Magnesium permanganate hexahydrate	$\text{Mg}(\text{MnO}_4)_2 \cdot 6\text{H}_2\text{O}$	10377-62-5	370.268	blue-blk cry	dec		2.18		s H_2O
1332	Magnesium peroxide	MgO_2	1335-26-8	56.304	wh cub cry	100 dec		≈3.0		i H_2O ; s dil acid
1333	Magnesium phosphate pentahydrate	$\text{Mg}_3(\text{PO}_4)_2 \cdot 5\text{H}_2\text{O}$	7757-87-1*	352.934	wh cry	400 dec			0.00009 ²⁰	s dil acid
1334	Magnesium phosphate octahydrate	$\text{Mg}_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$	13446-23-6	406.980	wh monocl cry			2.17	0.00009 ²⁰	s acid
1335	Magnesium pyrophosphate trihydrate	$\text{Mg}_2\text{P}_2\text{O}_7 \cdot 3\text{H}_2\text{O}$	10102-34-8	276.600	wh powder	100 dec		2.56		i H_2O ; s acid
1336	Magnesium phosphide	Mg_3P_2	12057-74-8	134.863	yel cub cry			2.06		reac H_2O
1337	Magnesium selenate hexahydrate	$\text{MgSeO}_4 \cdot 6\text{H}_2\text{O}$	13446-28-1	275.35	wh monocl cry			1.928	55.5 ²⁵	
1338	Magnesium selenide	MgSe	1313-04-8	103.27	brn cub cry			4.2		reac H_2O
1339	Magnesium selenite hexahydrate	$\text{MgSeO}_3 \cdot 6\text{H}_2\text{O}$	15593-61-0	259.36	col hex cry			2.09		i H_2O ; s dil acid
1340	Magnesium metasilicate	MgSiO_3	13776-74-4	100.389	wh monocl cry	≈1550 dec		3.19		i H_2O ; sl HF
1341	Magnesium orthosilicate	Mg_2SiO_4	26686-77-1	140.694	wh orth cry	1897		3.21		i H_2O
1342	Magnesium trisilicate	$\text{Mg}_2\text{Si}_3\text{O}_8$	14987-04-3	260.862	wh pow					i H_2O , EtOH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1343	Magnesium hexafluorosilicate hexahydrate	MgSiF ₆ · 6H ₂ O	60950-56-3	274.472	wh cry	120 dec		1.79	39.3 ¹⁸	i EtOH
1344	Magnesium silicide	Mg ₂ Si	22831-39-6	76.696	gray cub cry	1102		1.99		reac H ₂ O
1345	Magnesium stannide	Mg ₂ Sn	1313-08-2	167.320	blue cub cry	771		3.60		s H ₂ O, dil HCl
1346	Magnesium sulfate	MgSO ₄	7487-88-9	120.369	col orth cry	1127		2.66	35.7 ²⁵	
1347	Magnesium sulfate monohydrate	MgSO ₄ · H ₂ O	14168-73-1	138.384	col monocl cry	150 dec		2.57	35.7 ²⁵	
1348	Magnesium sulfate heptahydrate	MgSO ₄ · 7H ₂ O	10034-99-8	246.475	col orth cry	150 dec		1.67	35.7 ²⁵	sl EtOH
1349	Magnesium sulfide	MgS	12032-36-9	56.371	red-brn cub cry	2226		2.68		reac H ₂ O
1350	Magnesium sulfite trihydrate	MgSO ₃ · 3H ₂ O	19086-20-5	158.415	col orth cry			2.12	0.79 ²⁵	
1351	Magnesium sulfite hexahydrate	MgSO ₃ · 6H ₂ O	13446-29-2	212.461	wh hex cry	200 dec		1.72	0.79 ²⁵	i EtOH
1352	Magnesium thiosulfate hexahydrate	MgS ₂ O ₃ · 6H ₂ O	13446-30-5	244.527	col cry	170 dec		1.82	93 ²⁵	i EtOH
1353	Magnesium titanate	MgTiO ₃	1312-99-8	120.170	col hex cry	1565		3.85		
1354	Magnesium tungstate	MgWO ₄	13573-11-0	272.14	wh monocl cry			6.89	0.016 ²⁰	i EtOH
1355	Manganese	Mn	7439-96-5	54.938	hard gray metal		1246	2061	7.3	s dil acids
1356	Manganese antimonide	MnSb	12032-82-5	176.698	hex cry	840		6.9		
1357	Manganese antimonide	Mn ₂ Sb	12032-97-2	231.636	tetr cry	948		7.0		
1358	Manganese boride	MnB	12045-15-7	65.749	orth cry	1890		6.45		
1359	Manganese boride	MnB ₂	12228-50-1	76.560	hex cry	1827		5.3		
1360	Manganese boride	Mn ₂ B	12045-16-8	120.687	red-brn tetr cry	1580		7.20		
1361	Manganese carbide	Mn ₃ C	12266-65-8	176.825	refrac solid	1520		6.89		
1362	Manganese carbonyl	Mn ₂ (CO) ₁₀	10170-69-1	389.977	yel monocl cry	154		1.75		i H ₂ O; s os
1363	Manganese phosphide	MnP	12032-78-9	85.912	orth cry	1147		5.49		
1364	Manganese phosphide	Mn ₂ P	12333-54-9	140.850	hex cry	1327		6.0		
1365	Manganese(II) acetate tetrahydrate	Mn(C ₂ H ₃ O ₂) ₂ · 4H ₂ O	6156-78-1	245.087	red monocl cry	80		1.59		s H ₂ O, EtOH
1366	Manganese(II) tetraborate octahydrate	MnB ₄ O ₇ · 8H ₂ O	12228-91-0	354.300	red solid					i H ₂ O, EtOH; s dil acid
1367	Manganese(II) bromide	MnBr ₂	13446-03-2	214.746	pink hex cry	698		4.385	151 ²⁵	
1368	Manganese(II) bromide tetrahydrate	MnBr ₂ · 4H ₂ O	10031-20-6	286.808	red hyg cry	64 dec			151 ²⁵	
1369	Manganese(II) carbonate	MnCO ₃	598-62-9	114.947	pink hex cry	>200 dec		3.70	0.00008 ²⁰	s dil acid
1370	Manganese(II) chloride	MnCl ₂	7773-01-5	125.843	pink trig cry; hyg	650	1190	2.977	77.3 ²⁵	s py, EtOH; i eth
1371	Manganese(II) chloride tetrahydrate	MnCl ₂ · 4H ₂ O	13446-34-9	197.905	red monocl cry; hyg	87.5		1.913	77.3 ²⁵	s EtOH; i eth
1372	Manganese(II) dihydrogen phosphate dihydrate	Mn(H ₂ PO ₄) ₂ · 2H ₂ O	18718-07-5	284.944	col hyg cry					s H ₂ O; i EtOH
1373	Manganese(II) fluoride	MnF ₂	7782-64-1	92.935	red tetr cry	930		3.98	1.02 ²⁵	i EtOH
1374	Manganese(II) hydroxide	Mn(OH) ₂	18933-05-6	88.953	pink hex cry	dec		3.26	0.00034 ²⁰	
1375	Manganese(II) iodide	MnI ₂	7790-33-2	308.747	wh hex cry; hyg	638		5.04		s H ₂ O, EtOH
1376	Manganese(II) iodide tetrahydrate	MnI ₂ · 4H ₂ O	7790-33-2*	380.809	red cry					vs H ₂ O; s EtOH
1377	Manganese(II) molybdate	MnMoO ₄	14013-15-1	214.88	yel monocl cry			4.05		
1378	Manganese(II) nitrate	Mn(NO ₃) ₂	10377-93-2	178.948	col orth cry; hyg			2.2	161 ²⁵	s diox, thf
1379	Manganese(II) nitrate hexahydrate	Mn(NO ₃) ₂ · 6H ₂ O	10377-66-9	287.040	rose monocl cry	28 dec		1.8	161 ²⁵	vs EtOH
1380	Manganese(II) nitrate tetrahydrate	Mn(NO ₃) ₂ · 4H ₂ O	20694-39-7	251.010	pink hyg cry	37.1 dec		2.13	161 ²⁵	s EtOH
1381	Manganese(II) oxalate dihydrate	MnC ₂ O ₄ · 2H ₂ O	6556-16-7	178.987	wh cry powder	150 dec		2.45	0.032 ²⁰	s acid
1382	Manganese(II) oxide	MnO	1344-43-0	70.937	gr cub cry or powder	1839		5.37		i H ₂ O; s acid
1383	Manganese(II) perchlorate hexahydrate	Mn(ClO ₄) ₂ · 6H ₂ O	15364-94-0	361.930	pink hex cry			2.10		
1384	Manganese(II) pyrophosphate	Mn ₂ P ₂ O ₇	53731-35-4	283.819	wh monocl cry	1196		3.71		i H ₂ O
1385	Manganese(II) metasilicate	MnSiO ₃	7759-00-4	131.022	red orth cry	1291		3.48		i H ₂ O
1386	Manganese(II) orthosilicate	Mn ₂ SiO ₄	13568-32-6	201.960	orth cry			4.11		i H ₂ O
1387	Manganese(II) selenide	MnSe	1313-22-0	133.90	gray cub cry	1460		5.45		i H ₂ O

1388	Manganese(II) sulfate	MnSO ₄	7785-87-7	151.002	wh orth cry	700	850 dec	3.25	63.7 ²⁵	
1389	Manganese(II) sulfate monohydrate	MnSO ₄ · H ₂ O	10034-96-5	169.017	red monocl cry			2.95	63.7 ²⁵	i EtOH
1390	Manganese(II) sulfate tetrahydrate	MnSO ₄ · 4H ₂ O	10101-68-5	223.063	red monocl cry	38 dec		2.26	63.7 ²⁵	i EtOH
1391	Manganese(II) sulfide (α form)	MnS	18820-29-6	87.004	grn cub cry	1610		4.0		i H ₂ O; s dil acid
1392	Manganese(II) sulfide (β form)	MnS	18820-29-6	87.004	red cub cry			3.3		i H ₂ O; s dil acid
1393	Manganese(II) sulfide (γ form)	MnS	18820-29-6	87.004	red hex cry			≈3.3		i H ₂ O; s dil acid
1394	Manganese(II) telluride	MnTe	12032-88-1	182.54	hex cry	≈1150		6.0		
1395	Manganese(II) titanate	MnTiO ₃	12032-74-5	150.803	red hex cry	1360		4.55		
1396	Manganese(II) tungstate	MnWO ₄	13918-22-4	302.78	wh monocl cry			7.2	0.0054 ²⁰	
1397	Manganese(II,III) oxide	Mn ₃ O ₄	1317-35-7	228.812	brn tetr cry	1567		4.84		i H ₂ O; s HCl
1398	Manganese(III) fluoride	MnF ₃	7783-53-1	111.933	red monocl cry; hyg	>600 dec		3.54		reac H ₂ O
1399	Manganese(III) hydroxide	MnO(OH)	1332-63-4	87.945	blk monocl cry	250 dec		≈4.3		i H ₂ O
1400	Manganese(III) oxide	Mn ₂ O ₃	1317-34-6	157.874	blk cub cry	1080 dec		≈5.0		i H ₂ O
1401	Manganese(IV) oxide	MnO ₂	1313-13-9	86.937	blk tetr cry	535 dec		5.08		i H ₂ O, HNO ₃
1402	Manganese(VII) oxide	Mn ₂ O ₇	12057-92-0	221.872	grn oil; exp	5.9	95 exp	2.40		vs H ₂ O
1403	Mendelevium	Md	7440-11-1	258	Metal	827				
1404	Mercury	Hg	7439-97-6	200.59	heavy silv liq	-38.837 tp	356.62	13.5336		i H ₂ O
1405	Mercury(I) acetate	Hg ₂ (C ₂ H ₃ O ₂) ₂	631-60-7	519.27	col scales	dec				sl H ₂ O; i EtOH, eth
1406	Mercury(I) bromate	Hg ₂ (BrO ₃) ₂	13465-33-3	656.98	col cry	dec				i H ₂ O; sl acid
1407	Mercury(I) bromide	Hg ₂ Br ₂	15385-58-7	560.99	wh tetr cry or powder	407		7.307		i H ₂ O, EtOH, eth
1408	Mercury(I) carbonate	Hg ₂ CO ₃	6824-78-8	461.19	yel-brn cry	130 dec			0.0000045	i EtOH
1409	Mercury(I) chlorate	Hg ₂ (ClO ₃) ₂	10294-44-7	568.08	wh rhom cry	≈250 dec		6.409		sl H ₂ O; s EtOH
1410	Mercury(I) chloride	Hg ₂ Cl ₂	10112-91-1	472.09	wh tetr cry	525 tp	383 sp	7.16	0.0004 ²⁵	i EtOH, eth
1411	Mercury(I) fluoride	Hg ₂ F ₂	13967-25-4	439.18	yel cub cry	570 dec	subl	8.73		reac H ₂ O
1412	Mercury(I) iodide	Hg ₂ I ₂	15385-57-6	654.99	yel amorp powder	290		7.70		i H ₂ O, EtOH, eth
1413	Mercury(I) nitrate	Hg ₂ (NO ₃) ₂	10415-75-5	525.19	cry					sl H ₂ O
1414	Mercury(I) nitrate dihydrate	Hg ₂ (NO ₃) ₂ · 2H ₂ O	7782-86-7	561.22	col cry	70 dec		4.8		sl H ₂ O
1415	Mercury(I) nitrite	Hg ₂ (NO ₂) ₂	13492-25-6	493.19	yel cry	100 dec		7.3		reac H ₂ O
1416	Mercury(I) oxalate	Hg ₂ C ₂ O ₄	2949-11-3	489.20	cry					i H ₂ O; sl HNO ₃
1417	Mercury(I) oxide	Hg ₂ O	15829-53-5	417.18	prob mixture of HgO+Hg	100 dec		9.8		i H ₂ O; s HNO ₃
1418	Mercury(I) perchlorate tetrahydrate	Hg ₂ (ClO ₄) ₂ · 4H ₂ O	65202-12-2	672.14	cry	64			442 ²⁵	
1419	Mercury(I) sulfate	Hg ₂ SO ₄	7783-36-0	497.24	wh-yel cry powder			7.56	0.051 ²⁵	s dil HNO ₃
1420	Mercury(I) thiocyanate	Hg ₂ (SCN) ₂		517.35	col pow	dec			0.03 ²⁵	s HCl, KCNS
1421	Mercury(I) tungstate	Hg ₂ WO ₄	38705-19-0	649.02	yel amorp solid	dec				i H ₂ O, EtOH
1422	Mercury(II) acetate	Hg(C ₂ H ₃ O ₂) ₂	1600-27-7	318.68	wh-yel cry or powder	179 dec		3.28	25 ¹⁰	s EtOH
1423	Mercury(II) amide chloride	Hg(NH ₂)Cl	10124-48-8	252.07	wh solid		subl	5.38		i H ₂ O, EtOH; s warm acid
1424	Mercury(II) bromate	Hg(BrO ₃) ₂	26522-91-8	456.39	cry	130 dec			0.15	s acid
1425	Mercury(II) bromide	HgBr ₂	7789-47-1	360.40	wh rhomb cry or powder	236	322	6.05	0.61 ²⁵	sl chl; s EtOH, MeOH
1426	Mercury(II) chlorate	Hg(ClO ₃) ₂		367.49	wh needles	dec		4.998	25	
1427	Mercury(II) chloride	HgCl ₂	7487-94-7	271.50	wh orth cry	276	304	5.6	7.31 ²⁵	sl bz; s EtOH, MeOH, ace, eth
1428	Mercury(II) chromate	HgCrO ₄	13444-75-2	316.58	red monocl cry			6.06		sl H ₂ O
1429	Mercury(II) cyanide	Hg(CN) ₂	592-04-1	252.62	col tetr cry	320 dec		4.00	11.4 ²⁵	s EtOH; sl eth
1430	Mercury(II) dichromate	HgCr ₂ O ₇	7789-10-8	416.58	red cry powder					i H ₂ O; s acid
1431	Mercury(II) fluoride	HgF ₂	7783-39-3	238.59	wh cub cry; hyg	645 dec		8.95		reac H ₂ O
1432	Mercury(II) fulminate	Hg(CNO) ₂	628-86-4	284.62	gray cry	exp		4.42		sl H ₂ O; s EtOH, NH ₄ OH
1433	Mercury(II) hydrogen arsenate	HgHAsO ₄	7784-37-4	340.52	yel powder					i H ₂ O; s acid
1434	Mercury(II) iodate	Hg(IO ₃) ₂	7783-32-6	550.40	wh powder	175 dec				i H ₂ O
1435	Mercury(II) iodide	HgI ₂	7774-29-0	454.40	red tetr cry or powder	259	354	6.28	0.0055 ²⁵	sl EtOH, ace, eth

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1436	Mercury(II) nitrate	Hg(NO ₃) ₂	10045-94-0	324.60	col hyg cry	79		4.3		s H ₂ O; i EtOH
1437	Mercury(II) nitrate dihydrate	Hg(NO ₃) ₂ · 2H ₂ O	10045-94-0*	360.63	monocl cry			4.78		s H ₂ O
1438	Mercury(II) nitrate monohydrate	Hg(NO ₃) ₂ · H ₂ O	7783-34-8	342.62	wh-yel hyg cry			4.3		s H ₂ O, dil acid
1439	Mercury(II) oxalate	HgC ₂ O ₄	3444-13-1	288.61		165 dec				i H ₂ O
1440	Mercury(II) oxide	HgO	21908-53-2	216.59	red or yel orth cry	500 dec		11.14		i H ₂ O, EtOH; s dil acid
1441	Mercury(II) oxide sulfate	(Hg ₃ O ₂)SO ₄	1312-03-4	729.83	yel pow					i H ₂ O; s acid
1442	Mercury(II) oxycyanide	Hg(CN) ₂ · HgO	1335-31-5	469.21	wh orth cry	exp		4.44	11.4 ²⁵	
1443	Mercury(II) perchlorate trihydrate	Hg(ClO ₄) ₂ · 3H ₂ O	7616-83-3	453.54	cry					
1444	Mercury(II) phosphate	Hg ₃ (PO ₄) ₂	7782-66-3	791.71	wh-yel powder					i H ₂ O, EtOH; s acid
1445	Mercury(II) selenide	HgSe	20601-83-6	279.55	gray cub cry		subl	8.21		i H ₂ O
1446	Mercury(II) sulfate	HgSO ₄	7783-35-9	296.65	wh monocl cry			6.47		reac H ₂ O
1447	Mercury(II) sulfide (black)	HgS	1344-48-5	232.66	blk cub cry or powder	850		7.70		i H ₂ O; s acid, EtOH
1448	Mercury(II) sulfide (red)	HgS	1344-48-5	232.66	red hex cry	trans to blk HgS 344		8.17		i H ₂ O, acid; s aqua regia
1449	Mercury(II) telluride	HgTe	12068-90-5	328.19	gray cub cry	673		8.63		
1450	Mercury(II) thiocyanate	Hg(SCN) ₂	592-85-8	316.76	monocl cry	≈165 dec		3.71	0.070 ²⁵	s dil HCl
1451	Mercury(II) tungstate	HgWO ₄	37913-38-5	448.43	yel cry	dec				i H ₂ O, EtOH
1452	Molybdenum	Mo	7439-98-7	95.94	gray-blk metal; cub	2622	4639	10.2		i H ₂ O, dil acid, alk
1453	Molybdenum boride	Mo ₂ B	12006-99-4	202.69	refrac tetr cry	2000		9.2		
1454	Molybdenum boride	Mo ₂ B ₅	12007-97-5	245.94	refrac hex cry	1600		≈7.2		
1455	Molybdenum carbide	MoC	12011-97-1	107.95	refrac solid; cub	2577				
1456	Molybdenum carbide	Mo ₂ C	12069-89-5	203.89	gray orth cry	2687		9.18		
1457	Molybdenum hexacarbonyl	Mo(CO) ₆	13939-06-5	264.00	wh orth cry	148	155 dec	1.96		i H ₂ O; s bz, sl eth
1458	Molybdenum nitride	MoN	12033-19-1	109.95	hex cry	1750		9.20		
1459	Molybdenum nitride	Mo ₂ N	12033-31-7	205.89	gray cub cry	790 dec		9.46		
1460	Molybdenum phosphide	MoP	12163-69-8	126.91	blk hex cry			7.34		
1461	Molybdenum silicide	MoSi ₂	12136-78-6	152.11	gray tetr cry	≈1900		6.2		i H ₂ O; s HF
1462	Molybdenum(II) bromide	MoBr ₂	13446-56-5	255.75	yel-red cry	900 dec				
1463	Molybdenum(II) chloride	MoCl ₂	13478-17-6	166.85	yel cry	530 dec				
1464	Molybdenum(II) iodide	MoI ₂	14055-74-4	349.75	blk hyg cry			5.278		
1465	Molybdenum(III) bromide	MoBr ₃	13446-57-6	335.65	grn hex cry	977		4.89		i H ₂ O
1466	Molybdenum(III) chloride	MoCl ₃	13478-18-7	202.30	dark red monocl cry	1027		3.74		i H ₂ O
1467	Molybdenum(III) fluoride	MoF ₃	20193-58-2	152.94	brn hex cry	>600		4.64		i H ₂ O
1468	Molybdenum(III) iodide	MoI ₃	14055-75-5	476.65	blk solid	927				i H ₂ O
1469	Molybdenum(III) oxide	Mo ₂ O ₃	1313-29-7	239.88	gray-blk powder					i H ₂ O; sl acid
1470	Molybdenum(IV) bromide	MoBr ₄	13520-59-7	415.56	blk cry	dec				reac H ₂ O
1471	Molybdenum(IV) chloride	MoCl ₄	13320-71-3	237.75	blk cry	>170 dec				reac H ₂ O
1472	Molybdenum(IV) fluoride	MoF ₄	23412-45-5	171.93	grn cry	dec				reac H ₂ O
1473	Molybdenum(IV) oxide	MoO ₂	18868-43-4	127.94	brn-viol tetr cry	≈1100 dec		6.47		sl H ₂ O
1474	Molybdenum(IV) selenide	MoSe ₂	12058-18-3	253.86	gray hex cry	>1200		6.90		
1475	Molybdenum(IV) sulfide	MoS ₂	1317-33-5	160.07	blk powder or hex cry	1750		5.06		i H ₂ O; s conc acid
1476	Molybdenum(IV) telluride	MoTe ₂	12058-20-7	351.14	gray hex cry			7.7		
1477	Molybdenum(V) chloride	MoCl ₅	10241-05-1	273.20	gr-blk monocl cry; hyg	194	268	2.93		s EtOH, eth
1478	Molybdenum(V) fluoride	MoF ₅	13819-84-6	190.93	yel monocl cry	67	213.6	3.5		
1479	Molybdenum(V) oxytrichloride	MoOCl ₃	13814-74-9	218.30	blk monocl cry	297	subl			reac H ₂ O
1480	Molybdenum(VI) acid monohydrate	H ₂ MoO ₄ · H ₂ O	7782-91-4	179.97	wh powder			3.1		sl H ₂ O; s alk

1481	Molybdenum(VI) fluoride	MoF ₆	7783-77-9	209.93	wh cub cry or col liq; hyg	17.5	34.0	2.54		reac H ₂ O
1482	Molybdenum(VI) oxytetrafluoride	MoOF ₄	14459-59-7	187.93	volatile solid	98	186.0			
1483	Molybdenum(VI) oxytetrachloride	MoOCl ₄	13814-75-0	253.75	grn hyg powder	101				
1484	Molybdenum(VI) dioxydichloride	MoO ₂ Cl ₂	13637-68-8	198.84	yel-oran solid	≈175		3.31		reac H ₂ O
1485	Molybdenum(VI) oxide	MoO ₃	1313-27-5	143.94	wh-yel rhomb cry	801	1155	4.70	0.14 ²⁰	s conc acid
1486	Molybdenum(VI) metaphosphate	Mo(PO ₃) ₆	133863-98-6	569.77	yel powder			3.28		i H ₂ O, acid
1487	Neodymium	Nd	7440-00-8	144.24	silv metal; hex	1021	3074	7.01		
1488	Neodymium boride	NdB ₆	12008-23-0	209.11	blk cub cry	2610		4.93		
1489	Neodymium bromide	NdBr ₃	13536-80-6	383.95	viol orth cry; hyg	682	1540	5.3		s H ₂ O
1490	Neodymium chloride	NdCl ₃	10024-93-8	250.60	viol hex cry	758	1600	4.13	100 ²⁵	vs EtOH; i eth, chl
1491	Neodymium chloride hexahydrate	NdCl ₃ · 6H ₂ O	13477-89-9	358.69	purp cry	124 dec		2.3	100 ²⁵	s EtOH
1492	Neodymium fluoride	NdF ₃	13709-42-7	201.24	viol hex cry; hyg	1377	2300	6.51		i H ₂ O
1493	Neodymium iodide	NdI ₃	13813-24-6	524.95	grn orth cry; hyg	784		5.85		s H ₂ O
1494	Neodymium nitrate	Nd(NO ₃) ₃	10045-95-1	330.26	viol hyg. cry				152 ²⁵	s EtOH
1495	Neodymium nitrate hexahydrate	Nd(NO ₃) ₃ · 6H ₂ O	14517-29-4	438.35	purp hyg cry				152 ²⁵	s EtOH, ace
1496	Neodymium nitride	NdN	25764-11-8	158.25	blk cub cry			7.69		
1497	Neodymium oxide	Nd ₂ O ₃	1313-97-9	336.48	blue hex cry; hyg	2233	3760	7.24		i H ₂ O; s dil acid
1498	Neodymium sulfate	Nd ₂ (SO ₄) ₃	13477-91-3	576.67	pink needles	≈700 dec			7.1 ²⁰	
1499	Nickel(II) perchlorate hexahydrate	Ni(ClO ₄) ₂ · 6H ₂ O	13637-71-3*	365.685	grn hex needles	140			158.8 ²⁵	s EtOH, ace
1500	Neodymium sulfide	Nd ₂ S ₃	12035-32-4	384.68	orth cry	2207		5.46		
1501	Nickel(II) phosphate octahydrate	Ni ₃ (PO ₄) ₂ · 8H ₂ O	10381-36-9*	510.145	grn plates					s acid
1502	Nickel(II) selenate hexahydrate	NiSeO ₄ · 6H ₂ O	15060-62-5*	309.74	grn tetr cry			2.314	35.5 ²⁰	
1503	Neodymium telluride	Nd ₂ Te ₃	12035-35-7	671.28	gray orth cry	1377		7.0		
1504	Neon	Ne	7440-01-9	20.180	col gas	-248.609 tp (43 kPa)	-246.053	0.825 g/L		sl H ₂ O
1505	Neptunium	Np	7439-99-8	237	silv metal	644		20.2		s HCl
1506	Neptunium(IV) oxide	NpO ₂	12035-79-9	269	grn cub cry	2547		11.1		
1507	Nickel	Ni	7440-02-0	58.693	wh metal; cub	1455	2913	8.90		i H ₂ O; sl dil acid
1508	Nickel antimonide	NiSb	12035-52-8	180.453	hex cry	1147		8.74		
1509	Nickel arsenide	NiAs	27016-75-7	133.615	hex cry	967		7.77		
1510	Nickel boride	Ni ₃ B	12007-02-2	186.891	refrac solid	1156		8.17		
1511	Nickel boride	NiB	12007-00-0	69.504	grn refrac solid	1035		7.13		
1512	Nickel boride	Ni ₂ B	12007-01-1	128.198	refrac solid	1125		7.90		
1513	Nickel carbonyl	Ni(CO) ₄	13463-39-3	170.734	col liq	-19.3	43 (exp ≈60)	1.31		i H ₂ O; s EtOH, bz, ace, ctc
1514	Nickel phosphide	Ni ₃ P	12035-64-2	148.361	hex cry	1100		7.33		
1515	Nickel silicide	Ni ₂ Si	12059-14-2	145.473	orth cry	1255		7.40		
1516	Nickel silicide	NiSi ₂	12201-89-7	114.864	cub cry	993		4.83		
1517	Nickel(II) ammonium sulfate hexahydrate	Ni(NH ₄) ₂ (SO ₄) ₂ · 6H ₂ O	15699-18-0	394.989	blue-grn cry			1.923	6.5 ²⁰	i EtOH
1518	Nickel(II) arsenate octahydrate	Ni ₃ (AsO ₄) ₂ · 8H ₂ O	7784-48-7	598.040	yel-grn powder	dec		4.98		i H ₂ O; s acid
1519	Nickel(II) bromide	NiBr ₂	13462-88-9	218.501	yel hex cry; hyg	963	subl	5.10	131 ²⁰	
1520	Nickel(II) bromide trihydrate	NiBr ₂ · 3H ₂ O	13462-88-9*	272.547	yel-grn hyg cry	200 dec				vs H ₂ O; s EtOH, eth
1521	Nickel(II) carbonate	NiCO ₃	3333-67-3	118.702	grn rhomb cry			4.39	0.0043 ²⁰	s dil acid
1522	Nickel(II) chloride	NiCl ₂	7718-54-9	129.598	yel hex cry; hyg	1009 tp	985 sp	3.51	67.5 ²⁵	s EtOH
1523	Nickel(II) chloride hexahydrate	NiCl ₂ · 6H ₂ O	7791-20-0	237.689	grn monocl cry				67.5 ²⁵	s EtOH
1524	Nickel(II) cyanide tetrahydrate	Ni(CN) ₂ · 4H ₂ O	13477-95-7	182.789	grn plates	200 dec				i H ₂ O; sl dil acid; s NH ₄ OH
1525	Nickel(II) fluoride	NiF ₂	10028-18-9	96.690	yel tetr cry	1474		4.7	2.56 ²⁵	i EtOH, eth
1526	Nickel(II) hydroxide	Ni(OH) ₂	12054-48-7	92.708	grn hex cry	230 dec		4.1	0.00015 ²⁰	
1527	Nickel(II) hydroxide monohydrate	Ni(OH) ₂ · H ₂ O	36897-37-7	110.723	grn powder				0.00015 ²⁰	s dil acid
1528	Nickel(II) iodate	Ni(IO ₃) ₂	13477-98-0	408.498	yel needles			5.07	1.1 ³⁰	

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1529	Nickel(II) iodide	NiI ₂	13462-90-3	312.502	blk hex cry; hyg	780	subl	5.22	154 ²⁵	
1530	Nickel(II) iodide hexahydrate	NiI ₂ · 6H ₂ O	7790-34-3	420.593	grn monocl cry; hyg				154 ²⁵	vs EtOH
1531	Nickel(II) nitrate	Ni(NO ₃) ₂	13138-45-9	182.702	grn cry				99.2 ²⁵	s EtOH
1532	Nickel(II) nitrate hexahydrate	Ni(NO ₃) ₂ · 6H ₂ O	13478-00-7	290.794	grn monocl cry; hyg	56 dec		2.05	99.2 ²⁵	s EtOH
1533	Nickel(II) oxide	NiO	1313-99-1	74.692	grn cub cry	1955		6.72		i H ₂ O; s acid
1534	Nickel(II) selenide	NiSe	1314-05-2	137.65	yel-grn hex cry	980		7.2		
1535	Nickel(II) sulfate	NiSO ₄	7786-81-4	154.757	grn-yel orth cry	840 dec		4.01	40.4 ²⁵	
1536	Nickel(II) sulfate heptahydrate	NiSO ₄ · 7H ₂ O	10101-98-1	280.863	grn orth cry			1.98	40.4 ²⁵	s EtOH
1537	Nickel(II) sulfate hexahydrate	NiSO ₄ · 6H ₂ O	10101-97-0	262.848	blue-grn tetr cry	≈100 dec		2.07	40.4 ²⁵	sl EtOH
1538	Nickel(II) sulfide	NiS	16812-54-7	90.759	yel hex cry	976		5.5		i H ₂ O
1539	Nickel(II) thiocyanate	Ni(SCN) ₂	13689-92-4	174.859	grn pwd				55.0 ²⁵	
1540	Nickel(II) titanate	NiTiO ₃	12035-39-1	154.558	brn hex cry			5.0		
1541	Nickel(II,III) sulfide	Ni ₃ S ₄	12137-12-1	304.344	cub cry	995		4.77		
1542	Nickel(III) oxide	Ni ₂ O ₃	1314-06-3	165.385	gray-blk cub cry	≈600 dec				i H ₂ O; s hot acid
1543	Nickel(III) sulfide	Ni ₃ S ₂	12035-72-2	240.212	hex cry	787		5.87		
1544	Niobium	Nb	7440-03-1	92.906	gray metal; cub	2477	4744	8.57		i acid
1545	Niobium boride	NbB	12045-19-1	103.717	gray orth cry	2270		7.5		
1546	Niobium boride	NbB ₂	12007-29-3	114.528	gray hex cry	3050		6.97		
1547	Niobium carbide	NbC	12069-94-2	104.917	gray cub cry	3608	4300	7.82		i H ₂ O, acid
1548	Niobium carbide	Nb ₂ C	12011-99-3	197.824	refrac hex cry	3080		7.8		i H ₂ O
1549	Niobium nitride	NbN	24621-21-4	106.913	gray cry; cub	2300		8.47		i HCl, acid
1550	Niobium phosphide	NbP	12034-66-1	123.880	tetr cry			6.5		
1551	Niobium silicide	NbSi ₂	12034-80-9	149.077	gray hex cry	1950		5.7		
1552	Niobium(II) oxide	NbO	12034-57-0	108.905	gray cub cry	1936		7.30		
1553	Niobium(III) bromide	NbBr ₃	15752-41-7	332.618	dark brn solid		subl			
1554	Niobium(III) chloride	NbCl ₃	13569-59-0	199.264	blk solid					
1555	Niobium(III) fluoride	NbF ₃	15195-53-6	149.901	blue cub cry			4.2		
1556	Niobium(IV) chloride	NbCl ₄	13569-70-5	234.717	viol-blk monocl cry		275 subl	3.2		
1557	Niobium(IV) fluoride	NbF ₄	13842-88-1	168.900	blk tetr cry; hyg	>350 dec		4.01		
1558	Niobium(IV) iodide	NbI ₄	13870-21-8	600.524	gray orth cry	503		5.6		
1559	Niobium(IV) oxide	NbO ₂	12034-59-2	124.905	wh tetr cry or powder	1901		5.9		
1560	Niobium(IV) selenide	NbSe ₂	12034-77-4	250.83	gray hex cry	>1300		6.3		
1561	Niobium(IV) sulfide	NbS ₂	12136-97-9	157.038	blk rhomb cry			4.4		
1562	Niobium(IV) telluride	NbTe ₂	12034-83-2	348.11	hex cry			7.6		
1563	Niobium(V) bromide	NbBr ₅	13478-45-0	492.426	oran orth cry	254	360	4.36		s H ₂ O, EtOH
1564	Niobium(V) chloride	NbCl ₅	10026-12-7	270.170	yel monocl cry; hyg	204.7	254.0	2.78		rac H ₂ O; s HCl, ctc
1565	Niobium(V) fluoride	NbF ₅	7783-68-8	187.898	col monocl cry; hyg	80	229	2.70		rac H ₂ O; sl CS ₂ , chl
1566	Niobium(V) iodide	NbI ₅	13779-92-5	727.428	yel-blk monocl cry	≈200 dec		5.32		
1567	Niobium(V) oxide	Nb ₂ O ₅	1313-96-8	265.810	wh orth cry	1512		4.6		i H ₂ O; s HF
1568	Niobium(V) oxybromide	NbOBr ₃	14459-75-7	348.617	yel-brn cry	≈320 dec	subl			
1569	Niobium(V) oxychloride	NbOCl ₃	13597-20-1	215.263	wh tetr cry		subl	3.72		
1570	Niobium(V) dioxyfluoride	NbO ₂ F	15195-33-2	143.903	wh cub cry			4.0		
1571	Nitrogen	N ₂	7727-37-9	28.013	col gas	-210.0	-195.798	1.145 g/L		sl H ₂ O; i EtOH
1572	Nitramide	NO ₂ NH ₂	7782-94-7	62.028	unstable wh cry	72 dec				s H ₂ O, EtOH, ace, eth; i chl
1573	Nitric acid	HNO ₃	7697-37-2	63.013	col liq; hyg	-41.6	83	1.5129 ²⁰		vs H ₂ O

1574	Nitrous acid	HNO ₂	7782-77-6	47.014	stable only in soln					
1575	Nitrous oxide	N ₂ O	10024-97-2	44.012	col gas	-90.8	-88.48	1.799 g/L		sl H ₂ O; s EtOH, eth
1576	Nitric oxide	NO	10102-43-9	30.006	col gas	-163.6	-151.74	1.226 g/L		sl H ₂ O
1577	Nitrogen dioxide	NO ₂	10102-44-0	46.006	brn gas; equil with N ₂ O ₄		see N ₂ O ₄	1.880 g/L		reac H ₂ O
1578	Nitrogen trioxide	N ₂ O ₃	10544-73-7	76.011	blue solid or liq (low temp)	-101.1	≈3 dec	1.4 ²		reac H ₂ O
1579	Nitrogen tetroxide	N ₂ O ₄	10544-72-6	92.011	col liq; equil with NO ₂	-9.3	21.15	1.45 ²⁰		reac H ₂ O
1580	Nitrogen pentoxide	N ₂ O ₅	10102-03-1	108.010	col hex cry		33 sp	2.0		s chl; sl ctc
1581	Nitrogen tribromide	NBr ₃	15162-90-0	253.719	unstable solid	exp -100				
1582	Nitrogen trichloride	NCl ₃	10025-85-1	120.365	yel oily liq; exp	-40	71	1.653		i H ₂ O; s CS ₂ , bz, ctc
1583	Nitrogen trifluoride	NF ₃	7783-54-2	71.002	col gas	-206.79	-128.75	2.902 g/L		i H ₂ O
1584	Nitrogen triiodide	NI ₃	13444-85-4	394.720	unstable blk cry; exp					
1585	Nitrogen chloride difluoride	NOClF ₂	13637-87-1	87.457	col gas	-195	-67	3.575 g/L		
1586	Chloramine	NH ₂ Cl	10599-90-3	51.476	yel liq	-66				s H ₂ O, EtOH, eth; sl bz, CCl ₄
1587	Fluoramine	NH ₂ F	15861-05-9	35.021	unstable gas			1.431 g/L		
1588	Difluoramine	NHF ₂	10405-27-3	53.012	col gas	-116	-23	2.167 g/L		
1589	cis-Difluorodiazine	N ₂ F ₂	13812-43-6	66.010	col gas	<-195	-105.75	2.698 g/L		
1590	trans-Difluorodiazine	N ₂ F ₂	13776-62-0	66.010	col gas	-172	-111.45	2.698 g/L		
1591	Tetrafluorohydrazine	N ₂ F ₄	10036-47-2	104.007	col gas	-164.5	-74	4.251 g/L		
1592	Nitrosyl bromide	NOBr	13444-87-6	109.910	red gas	-56	≈0	4.492 g/L		reac H ₂ O
1593	Nitrosyl chloride	NOCl	2696-92-6	65.459	yel gas	-59.6	-5.5	2.676 g/L		reac H ₂ O
1594	Nitrosyl fluoride	NOF	7789-25-5	49.004	col gas	-132.5	-59.9	2.003 g/L		
1595	Trifluoramine oxide	NOF ₃	13847-65-9	87.001	col gas	-161	-87.5	3.556 g/L		
1596	Nitryl chloride	NO ₂ Cl	13444-90-1	81.459	col gas	-145	-15	3.330 g/L		
1597	Nitryl fluoride	NO ₂ F	10022-50-1	65.004	col gas	-166	-72.4	2.657 g/L		reac H ₂ O
1598	Nitrogen selenide	N ₄ Se ₄	12033-88-4	371.87	red monocl cry; hyg	exp		4.2		i H ₂ O, eth, EtOH; sl bz, CS ₂
1599	Nobelium	No	10028-14-5	259	metal	827				
1600	Osmium	Os	7440-04-2	190.23	blue-wh metal; hex	3033	5012	22.59		s aqua regia
1601	Osmium carbonyl	Os ₃ (CO) ₁₂	15696-40-9	906.81	yel cry			3.48		
1602	Osmium(III) bromide	OsBr ₃	59201-51-3	429.94	dark gray cry	340 dec				
1603	Osmium(III) chloride	OsCl ₃	13444-93-4	296.59	gray cub cry	>450 dec				i H ₂ O; s HNO ₃
1604	Osmium(IV) chloride	OsCl ₄	10026-01-4	332.04	red-blk orth cry		450 sp	4.38		reac H ₂ O
1605	Osmium(IV) fluoride	OsF ₄	54120-05-7	266.22	yel cry	230				
1606	Osmium(IV) oxide	OsO ₂	12036-02-1	222.23	yel-brn tetr cry			11.4		i H ₂ O, acid
1607	Osmium(V) fluoride	OsF ₅	31576-40-6	285.22	blue cry	70	225.9			reac H ₂ O
1608	Osmium(VI) fluoride	OsF ₆	13768-38-2	304.22	yel cub cry	33.2	47.5	4.1		reac H ₂ O
1609	Osmium(VIII) oxide	OsO ₄	20816-12-0	254.23	yel monocl cry	41	135	5.1	6.44 ²⁰	
1610	Oxygen	O ₂	7782-44-7	31.999	col gas	-218.79	-182.953	1.308 g/L		sl H ₂ O, EtOH, os
1611	Ozone	O ₃	10028-15-6	47.998	blue gas	-193	-111.35	1.962 g/L		sl H ₂ O
1612	Palladium	Pd	7440-05-3	106.42	silv-wh metal; cub	1554.8	2963	12.0		s aqua regia
1613	Palladium(II) sulfide	PdS	12125-22-3	138.49	gray tetr cry			6.7		
1614	Palladium(II) bromide	PdBr ₂	13444-94-5	266.23	red-blk monocl cry; hyg	250 dec		≈5.2		i H ₂ O
1615	Palladium(II) chloride	PdCl ₂	7647-10-1	177.33	red rhomb cry; hyg	679		4.0		s H ₂ O, EtOH, ace
1616	Palladium(II) fluoride	PdF ₂	13444-96-7	144.42	viol tetr cry; hyg	952		5.76		reac H ₂ O
1617	Palladium(II) iodide	PdI ₂	7790-38-7	360.23	blk cry	360 dec		6.0		i H ₂ O, EtOH, eth
1618	Palladium(II) nitrate	Pd(NO ₃) ₂	10102-05-3	230.43	brn hyg cry	dec				sl H ₂ O; s dil HNO ₃
1619	Palladium(II) oxide	PdO	1314-08-5	122.42	grn-blk tetr cry	750 dec		8.3		i H ₂ O, acid; sl aqua regia
1620	Phosphorus (white)	P	7723-14-0	30.974	col waxlike cub cry	44.15	280.5	1.823		i H ₂ O; sl bz, EtOH, chl; s CS ₂
1621	Phosphorus (red)	P	7723-14-0	30.974	red-viol amor powder	590 tp	431 sp	2.16		i H ₂ O, os

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1622	Phosphorus (black)	P	7723-14-0	30.974	blk orth cry or amorp solid	610		2.69		i os
1623	Phosphine	PH ₃	7803-51-2	33.998	col gas; flam	-133.8	-87.75	1.390 g/L		i H ₂ O; sl EtOH, eth
1624	Diphosphine	P ₂ H ₄	13445-50-6	65.980	col liq	-99	63.5 dec			reac H ₂ O
1625	Diphosphorus tetrachloride	P ₂ Cl ₄	13497-91-1	203.759	col oily liq	-28	≈180 dec			
1626	Diphosphorus tetrafluoride	P ₂ F ₄	13824-74-3	137.942	col gas	-86.5	-6.2	5.638 g/L		
1627	Diphosphorus tetraiodide	P ₂ I ₄	13455-00-0	569.566	red tricl needles	125.5	dec	3.89		
1628	Phosphonium chloride	PH ₄ Cl	24567-53-1	70.459	gas		-27 sp	2.880 g/L		reac H ₂ O
1629	Phosphonium iodide	PH ₄ I	12125-09-6	161.910	col tetr cry	18.5	62.5	2.86		reac H ₂ O, EtOH
1630	Phosphoric acid (orthophosphoric acid)	H ₃ PO ₄	7664-38-2	97.995	col visc liq	42.4	407		548 ²⁰	s EtOH
1631	Phosphonic acid (phosphorous acid)	H ₃ PO ₃	13598-36-2	81.996	wh hyg cry	74.4	200	1.65	309 ⁰	vs EtOH
1632	Phosphinic acid (hypophosphorous acid)	HPH ₂ O ₂	6303-21-5	65.997	hyg cry or col oily liq	26.5	130	1.49		vs H ₂ O; EtOH, eth
1633	Metaphosphoric acid	HPO ₃	37267-86-0	79.980	gl solid; hyg					sl H ₂ O; s EtOH
1634	Hypophosphoric acid	H ₄ P ₂ O ₆	7803-60-3	161.976	col orth cry	73 dec				vs H ₂ O
1635	Diphosphoric acid (pyrophosphoric acid)	H ₄ P ₂ O ₇	2466-09-3	177.975	wh cry	71.5			709 ²³	
1636	Difluorophosphoric acid	HPO ₂ F ₂	13779-41-4	101.978	col liq	≈-94	110 dec	1.583		reac H ₂ O
1637	Hexafluorophosphoric acid	HPF ₆	16940-81-1	145.972	col oily liq	25 dec				reac H ₂ O
1638	Fluorophosphonic acid	H ₂ PF ₃ O ₃	13537-32-1	99.986	col visc liq	<-70		1.82		vs H ₂ O
1639	Phosphorus nitride	P ₃ N ₅	12136-91-3	162.955	yel-brn solid	800 dec				i H ₂ O; s os
1640	Phosphorus sesquisulfide	P ₄ S ₃	1314-85-8	220.093	yel-grn orth cry	172.5	407	2.03		i H ₂ O; s bz; vs CS ₂
1641	Phosphorus heptasulfide trimer	P ₃ S ₇	12037-82-0	348.357	pale yel monocl cry	312	523	2.19		sl CS ₂
1642	Phosphonitrilic chloride trimer	(PNCl ₂) ₃	940-71-6	347.657	wh hyg cry	128.8		1.98		reac H ₂ O
1643	Phosphorus(III) bromide	PBr ₃	7789-60-8	270.686	col liq	-41.5	173.2	2.8		reac H ₂ O, EtOH; s ace, CS ₂
1644	Phosphorus(III) dibromide fluoride	PBr ₂ F	15597-39-4	209.780	col liq	-115	78.5			
1645	Phosphorus(III) bromide difluoride	PBrF ₂	15597-40-7	148.875	col gas	-133.8	-16.1	6.085 g/L		
1646	Phosphorus(III) chloride	PCl ₃	7719-12-2	137.332	col liq	-93.6	76.1	1.574		reac H ₂ O, EtOH; s bz, chl, eth
1647	Phosphorus(III) dichloride fluoride	PCl ₂ F	15597-63-4	120.877	col gas	-144	13.85	4.941 g/L		
1648	Phosphorus(III) chloride difluoride	PClF ₂	14335-40-1	104.424	col gas	-164.8	-47.3	4.268 g/L		
1649	Phosphorus(III) fluoride	PF ₃	7783-55-3	87.969	col gas	-151.5	-101.8	3.596 g/L		reac H ₂ O
1650	Phosphorus(III) iodide	PI ₃	13455-01-1	411.687	red-oran hex cry; hyg	61.2	227 dec	4.18		reac H ₂ O; s EtOH
1651	Phosphorus(III) oxide	P ₂ O ₃	1314-24-5	109.946	col monocl cry or liq	23.8	173	2.13		reac H ₂ O
1652	Tetraphosphorus(III) hexoxide	P ₄ O ₆	12440-00-5	219.891	soft wh cry	23.8	175.4			
1653	Phosphorus(III) selenide	P ₂ Se ₃	1314-86-9	298.83	oran-red cry	245	≈380	1.31		reac H ₂ O; s bz, ctc, CS ₂ , ace
1654	Phosphorus(III) sulfide	P ₂ S ₃	12165-69-4	158.146	yel solid	290	490			reac H ₂ O; s EtOH, eth, CS ₂
1655	Phosphorus(V) bromide	PBr ₅	7789-69-7	430.494	yel orth cry, Donnay	≈100 dec		3.61		reac H ₂ O, EtOH; s CS ₂ , ctc
1656	Phosphorus(V) tetrabromide fluoride	PBr ₄ F		369.588	pale yel cry	87 dec				
1657	Phosphorus(V) dibromide trifluoride	PBr ₂ F ₃	13445-58-4	247.777	yel-red liq	-20	15 dec			
1658	Phosphorus(V) chloride	PCl ₅	10026-13-8	208.238	wh-yel tetr cry; hyg	167 tp	160 sp	2.1		reac H ₂ O; s CS ₂ , ctc
1659	Phosphorus(V) tetrachloride fluoride	PCl ₄ F	13498-11-8	191.783	col liq	-59	30 dec			
1660	Phosphorus(V) trichloride difluoride	PCl ₃ F ₂	158704-27-9	175.329	col liq	-63				
1661	Phosphorus(V) dichloride trifluoride	PCl ₂ F ₃	13454-99-4	158.874	col gas	-125	7.1	6.494 g/L		
1662	Phosphorus(V) chloride tetrafluoride	PClF ₄		142.421	col gas	-132	-43.4	5.821 g/L		
1663	Phosphorus(V) fluoride	PF ₅	7647-19-0	125.966	col gas	-93.8	-84.6	5.149 g/L		reac H ₂ O
1664	Phosphorus(V) oxide	P ₂ O ₅	1314-56-3	141.945	wh orth cry; hyg	562	605	2.30		reac H ₂ O, EtOH
1665	Phosphorus(V) selenide	P ₂ Se ₅	1314-82-5	456.75	blk-purp amorp solid					reac hot H ₂ O, ctc; i CS ₂
1666	Phosphorus(V) sulfide	P ₂ S ₅	1314-80-3	222.278	grn-yel hyg cry	285	515	2.03		reac H ₂ O; s CS ₂

1667	Phosphonic difluoride	POF ₂ H	14939-34-5	85.978	volatile liq	>-120	≈60 (gas unstab)		
1668	Phosphoric tribromide (phosphoryl bromide)	POBr ₃	7789-59-5	286.685	faint oran plates	55	191.7	2.822	reac H ₂ O; s bz, eth, chl
1669	Phosphoric dibromide chloride	POBr ₂ Cl	13550-31-7	242.234	yel solid	31	165		
1670	Phosphoric dibromide fluoride	POBr ₂ F	14014-19-8	225.779	col liq	-117.2	110.1		
1671	Phosphoric bromide dichloride	POBrCl ₂	13455-03-3	197.782	col liq	11	136.5	2.104 ¹⁴	
1672	Phosphoric bromide difluoride	POBrF ₂	14014-18-7	164.874	col liq	-84.8	31.6		
1673	Phosphoric bromide chloride fluoride	POBrClF	14518-81-1	181.328	col liq		79		
1674	Phosphoric trichloride (phosphoryl chloride)	POCl ₃	10025-87-3	153.331	col liq	1.18	105.5	1.645	reac H ₂ O, EtOH
1675	Phosphoric dichloride fluoride	POCl ₂ F	13769-76-1	136.876	col liq	-80.1	52.9		
1676	Phosphoric chloride difluoride	POClF ₂	13769-75-0	120.423	col gas	-96.4	3.1	4.922 g/L	
1677	Phosphoric trifluoride (phosphoryl fluoride)	POF ₃	13478-20-1	103.968	col gas	-39.1 tp	-39.7 sp	4.250 g/L	reac H ₂ O
1678	Phosphoric triiodide (phosphoryl iodide)	POI ₃	13455-04-4	427.686	viol cry	53			
1679	Phosphorothioc tribromide	PSBr ₃	3931-89-3	302.752	yel cry	37.8	212 dec	2.85	
1680	Phosphorothioc dibromide fluoride	PSBr ₂ F	13706-10-0	241.846	yel liq	-75.2	125.3		
1681	Phosphorothioc bromide difluoride	PSBrF ₂	13706-09-7	180.941	yel liq	-136.9	35.5		
1682	Phosphorothioc trichloride	PSCl ₃	3982-91-0	169.398	fuming liq	-36.2	125	1.635	reac H ₂ O; s bz, ctc, chl, CS ₂
1683	Phosphorothioc dichloride fluoride	PSCl ₂ F	155698-29-6	152.943	col liq	-96.0	64.7		
1684	Phosphorothioc chloride difluoride	PSClF ₂	2524-02-9	136.490	col gas	-155.2	6.3	5.579 g/L	
1685	Phosphorothioc trifluoride	PSF ₃	2404-52-6	120.035	col gas	-148.8	-52.25	4.906 g/L	
1686	Phosphorothioc triiodide	PSI ₃	63972-04-3	443.753	yel cry	48	dec		
1687	Platinum	Pt	7440-06-4	195.08	silv-gray metal; cub	1768.2	3825	21.5	i acid; s aqua regia
1688	Platinum(II) bromide	PtBr ₂	13455-12-4	354.89	red-brn powder	250 dec		6.65	i H ₂ O
1689	Platinum(II) chloride	PtCl ₂	10025-65-7	265.98	grn hex cry	581 dec		6.0	i H ₂ O, EtOH, eth; s HCl
1690	Platinum(II) iodide	PtI ₂	7790-39-8	448.89	blk powder	325 dec		6.4	i H ₂ O
1691	Platinum(II) oxide	PtO	12035-82-4	211.08	blk tetr cry	325 dec		14.1	i H ₂ O, EtOH; s aqua regia
1692	Platinum(II) sulfide	PtS	12038-20-9	227.14	tetr cry			10.25	
1693	Platinum(III) bromide	PtBr ₃	25985-07-3	434.79	grn-blk cry	200 dec			
1694	Platinum(III) chloride	PtCl ₃	25909-39-1	301.44	grn-blk cry	435 dec		5.26	
1695	Platinum(IV) bromide	PtBr ₄	68938-92-1	514.69	brn-blk cry	180 dec		0.41 ²⁰	sl EtOH, eth
1696	Platinum(IV) chloride	PtCl ₄	37773-49-2	336.89	red-brn cub cry	327 dec		4.30	142 ²⁵
1697	Platinum(IV) chloride pentahydrate	PtCl ₄ · 5H ₂ O	13454-96-1	426.97	red cry			2.43	s H ₂ O, EtOH
1698	Platinum(IV) fluoride	PtF ₄	13455-15-7	271.07	red cry	600			
1699	Platinum(IV) iodide	PtI ₄	7790-46-7	702.70	brn-blk powder	130 dec			s H ₂ O
1700	Platinum(IV) oxide	PtO ₂	1314-15-4	227.08	blk hex cry	450		11.8	i H ₂ O; s conc acid, dil alk
1701	Platinum(IV) sulfide	PtS ₂	12038-21-0	259.21	hex cry			7.85	
1702	Platinum(VI) fluoride	PtF ₆	13693-05-5	309.07	red cub cry	61.3	69.1	≈4.0	
1703	cis-Diamminedichloroplatinum	Pt(NH ₃) ₂ Cl ₂	15663-27-1	300.04	yel solid	270 dec		0.253 ²⁵	
1704	trans-Diamminedichloroplatinum	Pt(NH ₃) ₂ Cl ₂	14913-33-8	300.04	pale yel solid	270 dec		0.036 ²⁵	s DMF, DMSO
1705	Hexachloroplatinic acid hexahydrate	H ₂ PtCl ₆ · 6H ₂ O	16941-12-1	517.90	brn-yel hyg cry	60	2.43	140 ¹⁸	vs EtOH
1706	Platinum silicide	PtSi	12137-83-6	223.16	orth cry	1229		12.4	
1707	Plutonium	Pu	7440-07-5	244	silv-wh metal; monocl	640	3228	19.7	
1708	Plutonium nitride	PuN	12033-54-4	258	gray cub cry	2550		14.4	
1709	Plutonium(II) oxide	PuO	12035-83-5	260	cub cry			14.0	
1710	Plutonium(III) bromide	PuBr ₃	15752-46-2	484	grn orth cry	681		6.75	s H ₂ O
1711	Plutonium(III) chloride	PuCl ₃	13569-62-5	350	grn hex cry	760		5.71	s H ₂ O
1712	Plutonium(III) fluoride	PuF ₃	13842-83-6	301	purp hex cry	1396		9.33	i H ₂ O; sl acid

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1713	Plutonium(III) iodide	PuI ₃	13813-46-2	625	grn orth cry; hyg	777		6.92		s H ₂ O
1714	Plutonium(III) oxide	Pu ₂ O ₃	12036-34-9	536	blk cub cry			10.5		
1715	Plutonium(IV) fluoride	PuF ₄	13709-56-3	320	red-brn monocl cry	1027		7.1		
1716	Plutonium(IV) oxide	PuO ₂	12059-95-9	276	yel-brn cub cry	2400		11.5		
1717	Plutonium(VI) fluoride	PuF ₆	13693-06-6	358	red-brn orth cry	52		5.08		
1718	Polonium	Po	7440-08-6	209	silv metal; cub	254	962	9.20		
1719	Polonium(IV) chloride	PoCl ₄	10026-02-5	351	yel hyg cry	≈300	390			s H ₂ O, EtOH, ace
1720	Polonium(IV) oxide	PoO ₂	7446-06-2	241	yel cub cry	500 dec		8.9		
1721	Potassium	K	7440-09-7	39.098	soft silv-wh metal; cub	63.5	759	0.89		reac H ₂ O
1722	Potassium acetate	KC ₂ H ₃ O ₂	127-08-2	98.142	wh hyg cry	309		1.57	269 ²⁵	s EtOH; i eth
1723	Potassium aluminate trihydrate	K ₂ Al ₂ O ₄ · 3H ₂ O	12003-63-3*	250.204	wh orth cry			2.13		vs H ₂ O; i EtOH
1724	Potassium aluminum silicate	KAlSi ₃ O ₈	1327-44-2	278.332	col monocl cry			2.56		i H ₂ O
1725	Potassium aluminum sulfate	KAl(SO ₄) ₂	10043-67-1	258.207	wh hyg powder				5.9 ²⁰	
1726	Potassium aluminum sulfate dodecahydrate	KAl(SO ₄) ₂ · 12H ₂ O	7784-24-9	474.391	col cry	≈100 dec		1.72	5.9 ²⁰	
1727	Potassium amide	KNH ₂	17242-52-3	55.121	wh/yel-grn hyg cry	335				reac H ₂ O, EtOH
1728	Potassium arsenate	K ₃ AsO ₄	13464-36-3	256.215	col cry			2.8	125 ²⁵	
1729	Potassium arsenite	KAsO ₂	13464-35-2	146.019	wh hyg pow					s H ₂ O; sl EtOH
1730	Potassium azide	KN ₃	20762-60-1	81.118	tetr cry; exp			2.04	49.7 ¹⁷	
1731	Potassium borohydride	KBH ₄	13762-51-1	53.941	wh cub cry	≈500 dec		1.11		s H ₂ O
1732	Potassium bromate	KBrO ₃	7758-01-2	167.000	wh hex cry	434 dec		3.27	8.17 ²⁵	i EtOH
1733	Potassium bromide	KBr	7758-02-3	119.002	col cub cry; hyg	734	1435	2.74	67.8 ²⁵	sl EtOH
1734	Potassium carbonate	K ₂ CO ₃	584-08-7	138.206	wh monocl cry; hyg	898	dec	2.29	111 ²⁵	i EtOH
1735	Potassium carbonate sesquihydrate	K ₂ CO ₃ · 1.5H ₂ O	6381-79-9	165.229	granular cry				111 ²⁰	
1736	Potassium chlorate	KClO ₃	3811-04-9	122.549	wh monocl cry	368	dec	2.32	8.61 ²⁵	
1737	Potassium chloride	KCl	7447-40-7	74.551	wh cub cry	771		1.988	35.5 ²⁵	i eth, ace
1738	Potassium chromate	K ₂ CrO ₄	7789-00-6	194.191	yel orth cry	975		2.73	65.0 ²⁵	
1739	Potassium cyanate	KCNO	590-28-3	81.115	wh tetr cry	≈700 dec		2.05	75 ²⁵	sl EtOH
1740	Potassium cyanide	KCN	151-50-8	65.116	wh cub cry; hyg	634		1.55	69.9 ²⁰	sl EtOH
1741	Potassium dichromate	K ₂ Cr ₂ O ₇	7778-50-9	294.185	oran-red tricl cry	398	≈500 dec	2.68	15.1 ²⁵	
1742	Potassium dihydrogen arsenate	KH ₂ AsO ₄	7784-41-0	180.034	col cry	288		2.87	19 ⁶	i EtOH
1743	Potassium dihydrogen phosphate	KH ₂ PO ₄	7778-77-0	136.085	wh tetr cry	253		2.34	25.0 ²⁵	sl EtOH
1744	Potassium ferricyanide	K ₃ Fe(CN) ₆	13746-66-2	329.244	red cry	dec		1.89	48.8 ²⁵	
1745	Potassium ferrocyanide trihydrate	K ₄ Fe(CN) ₆ · 3H ₂ O	14459-95-1	422.388	yel monocl cry	60 dec		1.85	36.0 ²⁵	i EtOH, eth
1746	Potassium fluoride	KF	7789-23-3	58.096	wh cub cry	858	1502	2.48	102 ²⁵	
1747	Potassium fluoride dihydrate	KF · 2H ₂ O	13455-21-5	94.127	monocl cry	41 dec		2.5	102 ²⁵	
1748	Potassium fluoroborate	KBF ₄	14075-53-7	125.903	col orth cry	530		2.505	0.55 ²⁵	sl EtOH
1749	Potassium fluorotantalate	K ₂ TaF ₇	16924-00-8	392.134	col cry	730		5.24	0.5 ⁰	
1750	Potassium formate	KCHO ₂	590-29-4	84.116	col hyg cry	167		1.91	331 ¹⁸	
1751	Potassium hexachloroosmate(IV)	K ₂ OsCl ₆	16871-60-6	481.14	red cub cry					vs H ₂ O; sl EtOH
1752	Potassium hexachloroplatinate	K ₂ PtCl ₆	16921-30-5	485.99	yel-oran cub cry	250 dec		3.50	0.77 ²⁰	i EtOH
1753	Potassium hexacyanocobaltate	K ₃ Co(CN) ₆	13963-58-1	332.332	yel monocl cry	dec		1.91		vs H ₂ O; i EtOH
1754	Potassium hexafluoromanganate(IV)	K ₂ MnF ₆	16962-31-5	247.125	yel hex cry					reac H ₂ O
1755	Potassium hexafluorosilicate	K ₂ SIF ₆	16871-90-2	220.273	wh cry	dec		2.27	0.084 ²⁰	i EtOH
1756	Potassium hexafluorozirconate(IV)	K ₂ ZrF ₆	16923-95-8	283.411	col mono cry			3.48	0.78 ²	
1757	Potassium hydride	KH	7693-26-7	40.106	cub cry			1.43		reac H ₂ O

1758	Potassium hydrogen arsenate	K_2HAsO_4	21093-83-4	218.125	col mono prisms		300 dec		18.7 ⁶	i EtOH	
1759	Potassium hydrogen arsenite	$KAsO_2 \cdot HAsO_2$	10124-50-2	253.947	wh hyg powder					s H ₂ O	
1760	Potassium hydrogen carbonate	$KHCO_3$	298-14-6	100.115	col monocl cry		≈100 dec	2.17	36.2 ²⁵	i EtOH	
1761	Potassium hydrogen fluoride	KHF_2	7789-29-9	78.103	col tetr cry		238.9	2.37	39.2 ²⁰	i EtOH	
1762	Potassium hydrogen phosphate	K_2HPO_4	7758-11-4	174.176	wh hyg cry		dec		168 ²⁵	s EtOH	
1763	Potassium hydrogen phosphite	K_2HPO_3	13492-26-7	158.177	wh hyg powder		dec		170 ²⁰	i EtOH	
1764	Potassium hydrogen selenite	$KHSeO_3$	7782-70-9	167.06	hyg orth cry		>100 dec			s H ₂ O; sl EtOH	
1765	Potassium hydrogen sulfate	$KHSO_4$	7646-93-7	136.170	wh monocl cry; hyg		≈200	2.32	50.6 ²⁵		
1766	Potassium hydrogen sulfide	KHS	1310-61-8	72.172	wh hex cry; hyg		≈450	1.69		s H ₂ O, EtOH	
1767	Potassium hydrogen sulfide hemihydrate	$KHS \cdot 0.5H_2O$	1310-61-8*	81.179	wh-yel hyg cry		≈175	1.7		vs H ₂ O, EtOH	
1768	Potassium hydrogen sulfite	$KHSO_3$	7773-03-7	120.170	wh cry powder		190 dec		49 ²⁰	i EtOH	
1769	Potassium hydrogen tartrate	$KHC_4H_4O_6$	868-14-4	188.177	wh cry			1.98	0.57 ²⁰	s acid, alk; i EtOH	
1770	Potassium hydroxide	KOH	1310-58-3	56.105	wh rhomb cry; hyg		406	1327	2.044	121 ²⁵	s EtOH; s MeOH
1771	Potassium hypophosphite	KH_2PO_2	7782-87-8	104.087	wh hyg cry		dec			vs H ₂ O; s EtOH	
1772	Potassium iodate	KIO_3	7758-05-6	214.001	wh monocl cry		560 dec	3.89	9.22 ²⁵		
1773	Potassium iodide	KI	7681-11-0	166.003	col cub cry		681	1323	3.12	148 ²⁵	sl EtOH
1774	Potassium iron(III) oxalate trihydrate	$K_3Fe(C_2O_4)_3 \cdot 3H_2O$		491.243	grn mono cry		100	230 dec	2.133	4.7 ⁰	i EtOH
1775	Potassium manganate	K_2MnO_4	10294-64-1	197.133	grn cry		190 dec			s H ₂ O; reac HCl	
1776	Potassium metaarsenate	$KAsO_3$	19197-73-0	162.018	wh solid		660				
1777	Potassium metabisulfite	$K_2S_2O_5$	16731-55-8	222.326	wh powder		≈150 dec	2.3	49.5 ²⁵	reac acid; i EtOH	
1778	Potassium metaborate	KBO_2	13709-94-9	81.908	wh hex cry			≈2.3			
1779	Potassium molybdate	K_2MoO_4	13446-49-6	238.14	wh hyg cry		919		2.3	183 ²⁵	i EtOH
1780	Potassium niobate	$KNbO_3$	12030-85-2	180.002	wh rhomb cry		≈1100		4.64		i H ₂ O
1781	Potassium nitrate	KNO_3	7757-79-1	101.103	col rhomb cry or powder		337	400 dec	2.11	38.3 ²⁵	i EtOH
1782	Potassium nitrite	KNO_2	7758-09-0	85.104	wh hyg cry		441	537 exp	1.915	312 ²⁵	sl EtOH
1783	Potassium oxalate	$K_2C_2O_4$	583-52-8	166.216	wh pwd					sl H ₂ O	
1784	Potassium oxalate monohydrate	$K_2C_2O_4 \cdot H_2O$	6487-48-5	184.231	col cry		160 dec		2.13	36.4 ²⁰	
1785	Potassium oxide	K_2O	12136-45-7	94.196	gray cub cry		350 dec		2.35		s H ₂ O, EtOH, eth
1786	Potassium perbromate	$KBrO_4$	22207-96-1	183.000	wh cry		275 dec			4.21 ²⁵	
1787	Potassium perchlorate	$KClO_4$	7778-74-7	138.549	col orth cry; hyg		525		2.52	2.08 ²⁵	
1788	Potassium periodate	KIO_4	7790-21-8	230.001	col tetr cry		582	exp	3.618	0.51 ²⁵	
1789	Potassium permanganate	$KMnO_4$	7722-64-7	158.034	purp orth cry		dec		2.7	7.60 ²⁵	reac EtOH
1790	Potassium peroxide	K_2O_2	17014-71-0	110.196	yel amorp solid		490				reac H ₂ O
1791	Potassium persulfate	$K_2S_2O_8$	7727-21-1	270.324	col cry		≈100 dec		2.48	4.7 ²⁰	
1792	Potassium phosphate	K_3PO_4	7778-53-2	212.266	wh orth cry; hyg		1340		2.564	106 ²⁵	i EtOH
1793	Potassium pyrophosphate trihydrate	$K_4P_2O_7 \cdot 3H_2O$	7320-34-5*	384.383	col hyg cry		1090		2.33		vs H ₂ O; i EtOH
1794	Potassium pyrosulfate	$K_2S_2O_7$	7790-62-7	254.325	col needles		≈325		2.28		s H ₂ O
1795	Potassium selenate	K_2SeO_4	7790-59-2	221.16	wh powder				3.07	114 ²⁵	
1796	Potassium selenide	K_2Se	1312-74-9	157.16	red cub cry; hyg		800		2.29		s H ₂ O
1797	Potassium selenite	K_2SeO_3	10431-47-7	205.16	wh hyg cry		875 dec			217 ²⁵	sl EtOH
1798	Potassium silver cyanide	$KAg(CN)_2$	506-61-6	199.000	wh cry						s H ₂ O
1799	Potassium stannate trihydrate	$K_2SnO_3 \cdot 3H_2O$	12142-33-5*	298.951	col cry				3.20		vs H ₂ O; i EtOH
1800	Potassium sulfate	K_2SO_4	7778-80-5	174.261	wh orth cry		1069		2.66	12.0 ²⁵	i EtOH
1801	Potassium sulfide	K_2S	1312-73-8	110.263	red-yel cub cry; hyg		948		1.74		s H ₂ O, EtOH; i eth
1802	Potassium sulfide pentahydrate	$K_2S \cdot 5H_2O$	37248-34-3	200.339	col rhomb cry		60				vs H ₂ O, EtOH; i eth
1803	Potassium sulfite	K_2SO_3	10117-38-1	158.261	col hex cry					106 ²⁵	sl EtOH
1804	Potassium sulfite dihydrate	$K_2SO_3 \cdot 2H_2O$	7790-56-9	194.292	wh monocl cry		dec			107 ²⁰	sl EtOH; dec dil acid
1805	Potassium superoxide	KO_2	12030-88-5	71.097	yel tetr cry; hyg		380		2.16		reac H ₂ O

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1806	Potassium tellurate(VI) trihydrate	K ₂ TeO ₄ · 3H ₂ O	15571-91-2*	323.84	wh cry powder					s H ₂ O
1807	Potassium tellurite	K ₂ TeO ₃	7790-58-1	253.80	wh hyg cry	≈460 dec				vs H ₂ O
1808	Potassium tetraborate pentahydrate	K ₂ B ₄ O ₇ · 5H ₂ O	1332-77-0	323.513	wh cry powder				16.5 ³⁰	sl EtOH
1809	Potassium tetrachloroaurate dihydrate	KAuCl ₄ · 2H ₂ O	13682-61-6	413.907	yel monocl cry					s H ₂ O, EtOH, eth
1810	Potassium tetrachloroplatinate	K ₂ PtCl ₆	10025-99-7	415.09	pink-red tetr cry	500 dec		3.38		s H ₂ O; i EtOH
1811	Potassium tetracyanoplatinate(II) trihydrate	K ₂ Pt(CN) ₄ · 3H ₂ O	562-76-5*	431.39	col rhomb prisms					s H ₂ O
1812	Potassium tetraiodomercurate(II)	K ₂ HgI ₄	7783-33-7	786.40	yel hyg cry			4.29		vs H ₂ O; s EtOH, eth, ace
1813	Potassium thiocyanate	KSCN	333-20-0	97.182	col tetr cry; hyg	173	500 dec	1.88	238 ²⁵	s EtOH
1814	Potassium thiosulfate	K ₂ S ₂ O ₃	10294-66-3	190.327	col hyg cry				165 ²⁵	i EtOH
1815	Potassium titanate	K ₂ TiO ₃	12030-97-6	174.062	wh orth cry	1515		3.1		reac H ₂ O
1816	Potassium triiodide monohydrate	KI ₃ · H ₂ O	7790-42-3	437.827	brn monocl cry; hyg	225 dec		3.5		s H ₂ O; reac EtOH, eth
1817	Potassium thiocarbonate	K ₂ C ₂ S ₃	26750-66-3	186.406	yel-red hyg cry					vs H ₂ O
1818	Potassium tungstate	K ₂ WO ₄	7790-60-5	326.04	hyg cry	921		3.12		vs H ₂ O; i EtOH
1819	Potassium uranate	K ₂ U ₂ O ₇	7790-63-8	666.251	oran cub cry			6.12		i H ₂ O; s acid
1820	Praseodymium	Pr	7440-10-0	140.908	silv metal; hex	931	3520	6.77		
1821	Praseodymium boride	PrB ₆	12008-27-4	205.774	blk cub cry	2610		4.84		
1822	Praseodymium bromide	PrBr ₃	13536-53-3	380.620	grn hex cry; hyg	693		5.28		s H ₂ O
1823	Praseodymium chloride	PrCl ₃	10361-79-2	247.266	grn hex needles; hyg	786		4.0	96.1 ²⁵	s EtOH
1824	Praseodymium chloride heptahydrate	PrCl ₃ · 7H ₂ O	10025-90-8	373.373	grn cry	110 dec			96.1 ²⁵	s EtOH
1825	Praseodymium fluoride	PrF ₃	13709-46-1	197.903	grn hex cry	1395		6.3		
1826	Praseodymium iodide	PrI ₃	13813-23-5	521.621	orth hyg cry	737		≈5.8		s H ₂ O
1827	Praseodymium nitrate	Pr(NO ₃) ₃	10361-80-5	326.923	pale grn hyg cry				165 ²⁵	s EtOH
1828	Praseodymium nitrate hexahydrate	Pr(NO ₃) ₃ · 6H ₂ O	15878-77-0	435.014	grn needles				165 ²⁵	s EtOH, ace
1829	Praseodymium nitride	PrN	25764-09-4	154.915	cub cry			7.46		
1830	Praseodymium oxide	Pr ₂ O ₃	12036-32-7	329.813	wh hex cry	2183	3760	6.9		
1831	Praseodymium silicide	PrSi ₂	12066-83-0	197.079	tetr cry	1712		5.46		
1832	Praseodymium sulfide	Pr ₂ S ₃	12038-13-0	378.013	cub cry	1765		5.1		
1833	Praseodymium telluride	Pr ₂ Te ₃	12038-12-9	664.62	cub cry	1500		≈7.0		
1834	Promethium	Pm	7440-12-2	145	silv metal; hex	1042	3000	7.26		
1835	Protactinium	Pa	7440-13-3	231.036	shiny metal; tetr or cub	1572		15.4		
1836	Protactinium(V) chloride	PaCl ₅	13760-41-3	408.300	yel monocl cry	306		3.74		
1837	Radium	Ra	7440-14-4	226	wh metal; cub	700		5		
1838	Radium bromide	RaBr ₂	10031-23-9	386	wh orth cry	728		5.79	70.6 ²⁰	s EtOH
1839	Radium chloride	RaCl ₂	10025-66-8	297	wh orth cry	1000		4.9	24.5 ²⁰	s EtOH
1840	Radium fluoride	RaF ₂	20610-49-5	264	wh cub cry			6.7		
1841	Radium nitrate	Ra(NO ₃) ₂	10213-12-4	350	cry				13.9	
1842	Radium sulfate	RaSO ₄	7446-16-4	322	wh cry					i H ₂ O, acid
1843	Radon	Rn	10043-92-2	222	col gas	-71	-61.7	9.074 g/L		sl H ₂ O
1844	Rhenium	Re	7440-15-5	186.207	silv-gray metal	3186	5596	20.8		i HCl
1845	Perrhenic acid	HReO ₄	13768-11-1	251.213	exists only in soln					vs H ₂ O, os
1846	Rhenium carbonyl	Re ₂ (CO) ₁₀	14285-68-8	652.515	yel-wh cry	170 dec		2.87		s os
1847	Rhenium(III) bromide	ReBr ₃	13569-49-8	425.919	red-brn monocl cry		500 subl	6.10		s ace, MeOH, EtOH
1848	Rhenium(III) chloride	ReCl ₃	13569-63-6	292.565	red-blk hyg cry	500 dec		4.81		s H ₂ O
1849	Rhenium(III) iodide	ReI ₃	15622-42-1	566.920	blk solid	dec				
1850	Rhenium(IV) chloride	ReCl ₄	13569-71-6	328.018	purp-blk cry; hyg	300 dec		4.9		

1851	Rhenium(IV) fluoride	ReF ₄	15192-42-4	262.201	blue tetr cry		>300 subl	7.49	
1852	Rhenium(IV) oxide	ReO ₂	12036-09-8	218.206	gray orth cry	900 dec		11.4	
1853	Rhenium(IV) sulfide	ReS ₂	12038-63-0	250.339	tricl cry			7.6	
1854	Rhenium(IV) telluride	ReTe ₂	12067-00-4	441.41	orth cry			8.50	
1855	Rhenium(V) bromide	ReBr ₅	30937-53-2	585.727	brn solid	110 dec			
1856	Rhenium(V) chloride	ReCl ₅	39368-69-9	363.471	brn-blk solid	220		4.9	reac H ₂ O
1857	Rhenium(V) fluoride	ReF ₅	30937-52-1	281.199	yel-grn solid	48	221.3		
1858	Rhenium(V) oxide	Re ₂ O ₅	12165-05-8	452.411	blue-blk tetr cry			≈7	
1859	Rhenium(VI) chloride	ReCl ₆	31234-26-1	398.923	red-grn solid	29			
1860	Rhenium(VI) dioxydifluoride	ReO ₂ F ₂	81155-18-2	256.203	col cry	156			
1861	Rhenium(VI) fluoride	ReF ₆	10049-17-9	300.197	yel liq or cub cry	18.5	33.8	4.06(cry)	s HNO ₃
1862	Rhenium(VI) oxide	ReO ₃	1314-28-9	234.205	redcub cry	400 dec		6.9	i H ₂ O, acid, alk
1863	Rhenium(VI) oxytetrachloride	ReOCl ₄	13814-76-1	344.017	brn cry	29.3	223		reac H ₂ O
1864	Rhenium(VI) oxytetrafluoride	ReOF ₄	17026-29-8	278.200	blue solid	108	171.7		
1865	Rhenium(VII) fluoride	ReF ₇	17029-21-9	319.196	yel cub cry	48.3	73.7	4.32	
1866	Rhenium(VII) oxide	Re ₂ O ₇	1314-68-7	484.410	yel hyg cry	297	360	6.10	s H ₂ O, EtOH, eth, diox, py
1867	Rhenium(VII) trioxychloride	ReO ₃ Cl	7791-09-5	269.658	col liq	4.5	128	3.87	reac H ₂ O
1868	Rhenium(VII) trioxyfluoride	ReO ₃ F	42246-24-2	253.203	yel solid	147	164		
1869	Rhenium(VII) dioxytrifluoride	ReO ₂ F ₃	57246-89-6	275.201	yel solid	90	185.4		reac H ₂ O
1870	Rhenium(VII) oxypentafluoride	ReOF ₅	23377-53-9	297.198	cream solid	43.8	73.0		
1871	Rhenium(VII) sulfide	Re ₂ S ₇	12038-67-4	596.876	brn-blk tetr cry			4.87	i H ₂ O
1872	Rhodium	Rh	7440-16-6	102.906	silv-wh metal; cub	1963	3695	12.4	i acid, sl aqua regia
1873	Rhodium carbonyl chloride	[Rh(CO) ₂ Cl] ₂	14523-22-9	388.757	red-oran cry	124			s os
1874	Rhodium dodecacarbonyl	Rh ₄ (CO) ₁₂	19584-30-6	747.743	red hyg cry			2.52	reac H ₂ O
1875	Rhodium(III) chloride	RhCl ₃	10049-07-7	209.264	red monocl cry		717	5.38	i H ₂ O; s alk
1876	Rhodium(III) fluoride	RhF ₃	60804-25-3	159.901	red hex cry			5.4	
1877	Rhodium(III) iodide	RhI ₃	15492-38-3	483.619	blk monocl cry; hyg			6.4	
1878	Rhodium(III) oxide	Rh ₂ O ₃	12036-35-0	253.809	gray hex cry	1100 dec		8.2	
1879	Rhodium(III) sulfate	Rh ₂ (SO ₄) ₃	10489-46-0	494.002	red-yel solid	>500 dec			
1880	Rhodium(IV) oxide	RhO ₂	12137-27-8	134.905	blk tetr cry			7.2	
1881	Rhodium(VI) fluoride	RhF ₆	13693-07-7	216.896	blk cub cry	≈70		3.1	
1882	Rubidium	Rb	7440-17-7	85.468	soft silv metal; cub	39.30	688	1.53	reac H ₂ O
1883	Rubidium acetate	RbC ₂ H ₃ O ₂	563-67-7	144.512	wh hyg cry	246			vs H ₂ O
1884	Rubidium aluminum sulfate	RbAl(SO ₄) ₂	13530-57-9	304.577	hex cry			≈3.1	1.60 ²⁰ i EtOH
1885	Rubidium aluminum sulfate dodecahydrate	RbAl(SO ₄) ₂ · 12H ₂ O	7784-29-4	520.761	col cub cry	≈100 dec		≈1.9	s H ₂ O; i EtOH
1886	Rubidium azide	RbN ₃	22756-36-1	127.488	tetr cry; exp	317		2.79	107 ¹⁶
1887	Rubidium bromate	RbBrO ₃	13446-70-3	213.370	cub cry	430		3.68	2.95 ²⁵
1888	Rubidium bromide	RbBr	7789-39-1	165.372	wh cub cry; hyg	682	1340	3.35	116 ²⁵
1889	Rubidium carbonate	Rb ₂ CO ₃	584-09-8	230.945	col monocl cry; hyg	837			223 ²⁰
1890	Rubidium chlorate	RbClO ₃	13446-71-4	168.919	col cry			3.19	6.63 ²⁵
1891	Rubidium chloride	RbCl	7791-11-9	120.921	wh cub cry; hyg	715	1390	2.76	93.9 ²⁵ sl EtOH
1892	Rubidium chromate	Rb ₂ CrO ₄	13446-72-5	286.930	yel rhom cry			3.518	76.2 ²⁵
1893	Rubidium cyanide	RbCN	19073-56-4	111.486	wh cub cry			2.3	s H ₂ O; i EtOH, eth
1894	Rubidium fluoride	RbF	13446-74-7	104.466	wh cub cry; hyg	833	1410	3.2	300 ²⁰ i EtOH
1895	Rubidium hydrogen fluoride	RbHF ₂	12280-64-7	124.473	tetr cry	188		3.3	
1896	Rubidium formate	RbCHO ₂	3495-35-0	130.486	wh hyg cry	dec			
1897	Rubidium hydride	RbH	13446-75-8	86.476	wh cub cry; flam	≈170 dec		2.60	reac H ₂ O
1898	Rubidium hydrogen carbonate	RbHCO ₃	19088-74-5	146.485	wh rhomb cry	175 dec			116 ²⁰

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1899	Rubidium hydrogen sulfate	RbHSO ₄	15587-72-1	182.540	col monocl cry	208		2.9		s H ₂ O
1900	Rubidium hydroxide	RbOH	1310-82-3	102.475	gray-wh orth cry; hyg	382		3.2	173 ³⁰	s EtOH
1901	Rubidium iodate	RbIO ₃	13446-76-9	260.370	mono or cub cry	dec		4.33	2.44 ²⁵	vs HCl
1902	Rubidium iodide	RbI	7790-29-6	212.372	wh cub cry	642	1300	3.55	165 ²⁵	s EtOH
1903	Rubidium nitrate	RbNO ₃	13126-12-0	147.473	wh hex cry; hyg	305		3.11	65.0 ²⁵	
1904	Rubidium oxide	Rb ₂ O	18088-11-4	186.935	yel-brn cub cry; hyg	400 dec		4.0		reac H ₂ O
1905	Rubidium perchlorate	RbClO ₄	13510-42-4	184.919	wh hyg cry	281	600 dec	2.8	1.5 ²⁵	
1906	Rubidium peroxide	Rb ₂ O ₂	23611-30-5	202.935	wh orth cry			3.8		reac H ₂ O
1907	Rubidium selenide	Rb ₂ Se	31052-43-4	249.90	wh cub cry	733		3.22		reac H ₂ O
1908	Rubidium sulfate	Rb ₂ SO ₄	7488-54-2	267.000	wh orth cry	1050		3.6	50.8 ²⁵	
1909	Rubidium sulfide	Rb ₂ S	31083-74-6	203.002	wh cub cry	425		2.91		s H ₂ O
1910	Rubidium superoxide	RbO ₂	12137-25-6	117.467	tetr cry	412		≈3.0		
1911	Ruthenium	Ru	7440-18-8	101.07	silv-wh metal; hex	2333	4150	12.1		i acid, aqua regia
1912	Ruthenium dodecacarbonyl	Ru ₃ (CO) ₁₂	15243-33-1	639.33	oran cry	150 dec				
1913	Ruthenium(III) 2,4-pentanedioate	Ru(CH ₃ COCHCOCH ₃) ₃	14284-93-6	398.39	red-brn cry	230				
1914	Ruthenium(III) bromide	RuBr ₃	14014-88-1	340.78	brn hex cry	>400 dec		5.3		
1915	Ruthenium(III) chloride	RuCl ₃	10049-08-8	207.43	brn hex cry	>500 dec		3.1		i H ₂ O; s EtOH
1916	Ruthenium(III) fluoride	RuF ₃	51621-05-7	158.07	brn rhomb cry	>600 dec		5.36		
1917	Ruthenium(III) iodide	RuI ₃	13896-65-6	481.78	blk hex cry			6.0		
1918	Ruthenium(IV) fluoride	RuF ₄	71500-16-8	177.06	yel cry					reac H ₂ O
1919	Ruthenium(IV) oxide	RuO ₂	12036-10-1	133.07	gray-blk tetr cry			7.05		i H ₂ O, acid
1920	Ruthenium(V) fluoride	RuF ₅	14521-18-7	196.06	grn monocl cry	86.5	227	3.90		
1921	Ruthenium(VI) fluoride	RuF ₆	13693-08-8	215.06	dark brn orth cry	54		3.54		reac H ₂ O
1922	Ruthenium(VIII) oxide	RuO ₄	20427-56-9	165.07	yel monocl prisms	25.4	40	3.29	171 ⁰	vs ctc; reac EtOH
1923	Samarium	Sm	7440-19-9	150.36	silv metal; rhomb	1074	1794	7.52		
1924	Samarium boride	SmB ₆	12008-29-6	215.23	refrac solid	2580		5.07		
1925	Samarium silicide	SmSi ₂	12300-22-0	206.53	orth cry			5.14		
1926	Samarium(II) bromide	SmBr ₂	50801-97-3	310.17	brn cry	669				reac H ₂ O
1927	Samarium(II) chloride	SmCl ₂	13874-75-4	221.27	brn cry	855		3.69		reac H ₂ O
1928	Samarium(II) fluoride	SmF ₂	15192-17-3	188.36	purp cry					reac H ₂ O
1929	Samarium(II) iodide	SmI ₂	32248-43-4	404.17	grn cry	520				reac H ₂ O
1930	Samarium(III) bromide	SmBr ₃	13759-87-0	390.07	yel cry	640				reac H ₂ O
1931	Samarium(III) chloride	SmCl ₃	10361-82-7	256.72	yel cry	682		4.46	93.8 ²⁵	
1932	Samarium(III) chloride hexahydrate	SmCl ₃ · 6H ₂ O	13465-55-9	364.81	yel cry	dec		2.38	93.8 ²⁵	
1933	Samarium(III) fluoride	SmF ₃	13765-24-7	207.36	wh cry	1306				reac H ₂ O
1934	Samarium(III) iodide	SmI ₃	13813-25-7	531.07	oran cry	850				reac H ₂ O
1935	Samarium(III) nitrate	Sm(NO ₃) ₃	10361-83-8	336.38	yel-wh hyg solid				144 ²⁵	s EtOH
1936	Samarium(III) nitrate hexahydrate	Sm(NO ₃) ₃ · 6H ₂ O	13759-83-6	444.47	pale yel cry	78				s H ₂ O, MeOH, ace
1937	Samarium(III) oxide	Sm ₂ O ₃	12060-58-1	348.72	yel-wh cub cry	2269	3780	7.6		
1938	Samarium(III) sulfate octahydrate	Sm ₂ (SO ₄) ₃ · 8H ₂ O	13465-58-2	733.03	yel cry			2.93	2.67 ²⁰	
1939	Samarium(III) sulfide	Sm ₂ S ₃	12067-22-0	396.92	gray-brn cub cry	1720		5.87		
1940	Samarium(III) telluride	Sm ₂ Te ₃	12040-00-5	683.52	orth cry			7.31		
1941	Scandium	Sc	7440-20-2	44.956	silv metal; hex	1541	2836	2.99		
1942	Scandium boride	ScB ₂	12007-34-0	66.578	refrac solid	2250		3.17		
1943	Scandium bromide	ScBr ₃	13465-59-3	284.668	wh hyg cry	969		9.33		s H ₂ O

1944	Scandium chloride	ScCl ₃	10361-84-9	151.314	wh hyg cry	967		2.4	s H ₂ O; i EtOH
1945	Scandium fluoride	ScF ₃	13709-47-2	101.951	wh powder	1515			sl H ₂ O
1946	Scandium hydroxide	Sc(OH) ₃	17674-34-9	95.978	col amorp sol				i H ₂ O; s dil acid
1947	Scandium nitrate	Sc(NO ₃) ₃	13465-60-6	230.971	wh cry			169 ²⁵	s EtOH
1948	Scandium oxide	Sc ₂ O ₃	12060-08-1	137.910	wh cub cry	2485		3.864	s conc acid
1949	Scandium sulfide	Sc ₂ S ₃	12166-29-9	186.110	yel orth cry	1775		2.91	
1950	Scandium telluride	Sc ₂ Te ₃	12166-44-8	472.71	blk hex cry			5.29	
1951	Selenium (α form)	Se	7782-49-2	78.96	red monocl cry	221	685	4.39	i H ₂ O, EtOH; sl eth
1952	Selenium (gray)	Se	7782-49-2	78.96	gray metallic cry; hex	220.5	685	4.81	i H ₂ O, CS ₂
1953	Selenium (vitreous)	Se	7782-49-2	78.96	blk amorp solid	trans to gray Se 180	685	4.28	i H ₂ O; sl CS ₂
1954	Selenic acid	H ₂ SeO ₄	7783-08-6	144.97	wh hyg solid	58	260 dec	2.95	vs H ₂ O; reac EtOH
1955	Selenous acid	H ₂ SeO ₃	7783-00-8	128.97	wh hyg cry	70 dec		3.0	vs H ₂ O; s EtOH
1956	Selenium dioxide	SeO ₂	7446-08-4	110.96	wh tetr needles or powder	340 tp	315 sp	3.95	264 ²² s EtOH, MeOH; sl ace
1957	Selenium trioxide	SeO ₃	13768-86-0	126.96	wh tetr cry; hyg	118	subl	3.44	s H ₂ O, os
1958	Selenium bromide	Se ₂ Br ₂	7789-52-8	317.73	red liq		225 dec	3.60	reac H ₂ O; s CS ₂ , chl
1959	Selenium chloride	Se ₂ Cl ₂	10025-68-0	228.83	yel-brn oily liq	-85	130 dec	2.774	reac H ₂ O; s CS ₂ , bz, ctc, chl
1960	Selenium tetrabromide	SeBr ₄	7789-65-3	398.58	oran-red cry	123			reac H ₂ O; s CS ₂ , chl
1961	Selenium tetrachloride	SeCl ₄	10026-03-6	220.77	wh-yel cry	305 tp	191.4 sp	2.6	reac H ₂ O
1962	Selenium tetrafluoride	SeF ₄	13465-66-2	154.95	col liq	-10	106	2.75	reac H ₂ O; vs EtOH, eth
1963	Selenium hexafluoride	SeF ₆	7783-79-1	192.95	col gas	-34.6 tp	-46.6 sp	7.887 g/L	i H ₂ O
1964	Selenium oxybromide	SeOBr ₂	7789-51-7	254.77	red-yel solid	41.6	220 dec	3.38	reac H ₂ O; s CS ₂ , bz, ctc
1965	Selenium oxychloride	SeOCl ₂	7791-23-3	165.86	col or yel liq	8.5	177	2.44	reac H ₂ O; s ctc, chl, bz, tol
1966	Selenium oxyfluoride	SeOF ₂	7783-43-9	132.96	col liq	15	125	2.8	reac H ₂ O
1967	Selenium dioxide difluoride	SeO ₂ F ₂	14984-81-7	148.96	col gas	-99.5	-8.4	6.089 g/L	reac H ₂ O
1968	Selenium sulfide	SeS ₂	7488-56-4	143.09	red-yel cry	100			i H ₂ O; s acid
1969	Selenium sulfide	Se ₂ S ₆	75926-26-0	350.32	oran needles	121.5		2.44	s CS ₂ ; sl bz
1970	Selenium sulfide	Se ₃ S ₄	75926-28-2	444.10	red cry	113 dec		3.29	s bz; sl CS ₂
1971	Selenium sulfide	Se ₆ S ₂	75926-30-6	537.89	oran cry	121.5			s CS ₂
1972	Silicon	Si	7440-21-3	28.086	gray cry or brn amorp solid	1414	3265	2.3290	i H ₂ O, acid; s alk
1973	Silane	SiH ₄	7803-62-5	32.118	col gas; flam	-185	-111.9	1.313 g/L	reac H ₂ O; i EtOH, bz
1974	Disilane	Si ₂ H ₆	1590-87-0	62.219	col gas; flam	-132.5	-14.3	2.543 g/L	reac H ₂ O, ctc, chl; s EtOH, bz
1975	Trisilane	Si ₃ H ₈	7783-26-8	92.321	flam liq	-117.4	52.9	0.739	reac H ₂ O
1976	Tetrasilane	Si ₄ H ₁₀	7783-29-1	122.421	col liq; flam	-89.9	108.1	0.792	reac H ₂ O
1977	2-Silyltrisilane	Si ₄ H ₁₀	13597-87-0	122.421	col liq	-99.4	101.7	0.792	reac H ₂ O
1978	Pentasilane	Si ₅ H ₁₂	14868-53-2	152.523	col liq	-72.8	153.2	0.827	reac H ₂ O
1979	2-Silyltetrasilane	Si ₅ H ₁₂	14868-54-3	152.523	col liq	-109.9	146.2	0.820	reac H ₂ O
1980	2,2-Disilyltrisilane	Si ₅ H ₁₂	15947-57-6	152.523	col liq	-57.8	134.3	0.815	reac H ₂ O
1981	Hexasilane	Si ₆ H ₁₄	14693-61-9	182.624	col liq	-44.7	193.6	0.847	reac H ₂ O
1982	2-Silylpentasilane	Si ₆ H ₁₄	14868-55-4	182.624	col liq	-78.4	185.2	0.840	
1983	3-Silylpentasilane	Si ₆ H ₁₄	14868-55-4	182.624	col liq	-69	179.5	0.843	reac H ₂ O
1984	Heptasilane	Si ₇ H ₁₆	14693-65-3	212.726	col liq	-30.1	226.8	0.859	reac H ₂ O
1985	Cyclopentasilane	Si ₅ H ₁₀	289-22-5	150.507	col liq	-10.5	194.3	0.963	reac H ₂ O
1986	Cyclohexasilane	Si ₆ H ₁₂	291-59-8	180.608	col liq	16.5	226		reac H ₂ O
1987	Bromosilane	SiH ₃ Br	13465-73-1	111.014	col gas	-94	1.9	4.538 g/L	
1988	Bromotrichlorosilane	SiCl ₃ Br	13465-74-2	214.348	col liq	-62	80.3	1.826	reac H ₂ O
1989	Chlorosilane	SiH ₃ Cl	13465-78-6	66.563	col gas	-118	-30.4	2.721 g/L	
1990	Chlorotrifluorosilane	SiClF ₃	14049-36-6	120.534	col gas	-138	-70.0	4.927 g/L	reac H ₂ O
1991	Dibromodichlorosilane	SiBr ₂ Cl ₂	13465-75-3	258.799	col liq	-45.5	104	2.172	reac H ₂ O

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
1992	Dibromosilane	SiH ₂ Br ₂	13768-94-0	189.910	liq	-70.1	66			
1993	Dichlorosilane	SiH ₂ Cl ₂	4109-96-0	101.007	col gas; flam	-122	8.3	4.129 g/L		reac H ₂ O
1994	Dichlorodifluorosilane	SiCl ₂ F ₂	18356-71-3	136.988	col gas	-44	-32	5.599 g/L		reac H ₂ O
1995	Difluorosilane	SiH ₂ F ₂	13824-36-7	68.099	col gas	-122	-77.8	2.783 g/L		
1996	Diiodosilane	SiH ₂ I ₂	13760-02-6	283.911	col liq	-1	150			
1997	Fluorosilane	SiH ₃ F	13537-33-2	50.108	col gas		-98.6	2.048 g/L		
1998	Iodosilane	SiH ₃ I	13598-42-0	158.014	col liq	-57	45.6			
1999	Tetrabromosilane	SiBr ₄	7789-66-4	347.702	col fuming liq	5.39	154	2.8		reac H ₂ O
2000	Tetrachlorosilane	SiCl ₄	10026-04-7	169.897	col fuming liq	-68.74	57.65	1.5		reac H ₂ O
2001	Tetrafluorosilane	SiF ₄	7783-61-1	104.080	col gas	-90.2	-86	4.254 g/L		reac H ₂ O
2002	Tetraiodosilane	SiI ₄	13465-84-4	535.704	wh powder	120.5	287.35	4.1		
2003	Tribromosilane	SiHBr ₃	7789-57-3	268.806	flam liq	-73	109	2.7		reac H ₂ O
2004	Tribromochlorosilane	SiBr ₃ Cl	13465-76-4	303.251	col liq	-20.8	127	2.497		reac H ₂ O
2005	Trichlorosilane	SiHCl ₃	10025-78-2	135.452	fuming liq	-128.2	33	1.331		reac H ₂ O
2006	Trichlorofluorosilane	SiCl ₃ F	14965-52-7	153.442	col gas		12.25	6.272 g/L		
2007	Trichloroiodosilane	SiCl ₃ I	13465-85-5	261.348	col liq	-60	113.5			reac H ₂ O
2008	Trifluorosilane	SiHF ₃	13465-71-9	86.089	col gas	-131	-95	3.519 g/L		
2009	Triiodosilane	SiI ₃	13465-72-0	409.807	liq	8	220 dec			
2010	Disiloxane	(SiH ₃) ₂ O	13597-73-4	78.218	gas	-144	-15.2	3.197 g/L		
2011	Metasilicic acid	H ₂ SiO ₃	7699-41-4	78.100	wh amor powder					i H ₂ O; s HF
2012	Orthosilicic acid	H ₄ SiO ₄	10193-36-9	96.116	exists only in soln					
2013	Fluorosilicic acid	H ₂ SiF ₆	16961-83-4	144.092	stable only in aq soln					s H ₂ O
2014	Silicon carbide (hexagonal)	SiC	409-21-2	40.097	hard grn-black hex cry	2830		3.16		i H ₂ O, EtOH
2015	Silicon nitride	Si ₃ N ₄	12033-89-5	140.284	gray refrac solid; hex	1900		3.17		
2016	Silicon monoxide	SiO	10097-28-6	44.085	blk cub cry, stable >1200			2.18		
2017	Silicon dioxide (α-quartz)	SiO ₂	14808-60-7	60.085	col hex cry	trans to beta quartz 573	2950	2.648		i H ₂ O, acid; s HF
2018	Silicon dioxide (β-quartz)	SiO ₂	14808-60-7	60.085	col hex cry	trans to tridymite 867	2950	2.533 ⁶⁰⁰		i H ₂ O, acid; s HF
2019	Silicon dioxide (tridymite)	SiO ₂	15468-32-3	60.085	col hex cry	trans cristobalite 1470	2950	2.265		i H ₂ O, acid; s HF
2020	Silicon dioxide (cristobalite)	SiO ₂	14464-46-1	60.085	col hex cry	1722	2950	2.334		i H ₂ O, acid; s HF
2021	Silicon dioxide (vitreous)	SiO ₂	60676-86-0	60.085	col amor solid	1713	2950	2.196		i H ₂ O, acid; s HF
2022	Silicon monosulfide	SiS	12504-41-5	60.152	yel-red hyg powder	≈900	940	1.85		reac H ₂ O
2023	Silicon disulfide	SiS ₂	13759-10-9	92.218	wh rhomb cry	1090	subl	2.04		reac H ₂ O, EtOH; i bz
2024	Silver	Ag	7440-22-4	107.868	silv metal; cub	961.78	2162	10.5		
2025	Silver azide	AgN ₃	13863-88-2	149.888	orth cry; exp	exp ≈250		4.9	0.00081 ²⁰	
2026	Silver subfluoride	Ag ₂ F	1302-01-8	234.734	yel hex cry	100 dec		8.6		reac H ₂ O
2027	Silver(I) acetate	AgC ₂ H ₃ O ₂	563-63-3	166.912	wh needles or powder	dec		3.26	1.04 ²⁰	
2028	Silver(I) acetylide	Ag ₂ C ₂	7659-31-6	239.757	wh powder; exp					
2029	Silver(I) arsenate	Ag ₃ AsO ₄	13510-44-6	462.524	red cub cry	dec		6.657	0.00085	s NH ₄ OH
2030	Silver(I) acetylide	AgC ₂ H	13092-75-6	132.897	wh powder; exp					
2031	Silver(I) bromate	AgBrO ₃	7783-89-3	235.770	wh tetr cry	360 dec		5.21	0.193 ²⁵	
2032	Silver(I) bromide	AgBr	7785-23-1	187.772	yel cub cry	432	1502	6.47	0.000014 ²⁵	i acid
2033	Silver(I) carbonate	Ag ₂ CO ₃	534-16-7	275.745	yel monocl cry	218		6.077	0.0036 ²⁰	s acid
2034	Silver(I) chlorate	AgClO ₃	7783-92-8	191.319	wh tetr cry	230	270 dec	4.430	17.6 ²⁵	sl EtOH
2035	Silver(I) chloride	AgCl	7783-90-6	143.321	wh cub cry	455	1547	5.56	0.00019 ²⁵	
2036	Silver(I) chlorite	AgClO ₂	7783-91-7	175.320	yel cry	105 exp			0.55 ²⁵	

2037	Silver(I) chromate	Ag ₂ CrO ₄	7784-01-2	331.730	brn-red monoc cry		5.625	0.000014 ^o		
2038	Silver(I) citrate	Ag ₃ C ₆ H ₅ O ₇	126-45-4	512.705	wh cry powder				i H ₂ O; s HNO ₃	
2039	Silver(I) cyanide	AgCN	506-64-9	133.886	wh-gray hex cry	320 dec	3.95	0.0000011	i EtOH, dil acid	
2040	Silver(I) dichromate	Ag ₂ Cr ₂ O ₇	7784-02-3	431.724	red cry		4.770		sl H ₂ O	
2041	Silver(I) diethyldithiocarbamate	Ag(C ₂ H ₃) ₂ NCS ₂	1470-61-7	256.140	pow	173			s py	
2042	Silver(I) fluoride	AgF	7775-41-9	126.866	yel-brn cub cry; hyg	435	1159	5.852	172 ²⁰	
2043	Silver(I) hexafluoroantimonate	AgSbF ₆	26042-64-8	343.618	pow					
2044	Silver(I) hexafluoroarsenate	AgAsF ₆	12005-82-2	296.780	pow					
2045	Silver(I) hexafluorophosphate	AgPF ₆	26042-63-7	252.832	pow	102 dec				
2046	Silver(I) hydrogen fluoride	AgHF ₂	12249-52-4	146.873	hyg cry	dec				
2047	Silver(I) iodate	AgIO ₃	7783-97-3	282.770	wh orth cry	>200		5.53	0.053 ²⁵	
2048	Silver(I) iodide	AgI	7783-96-2	234.772	yel powder; hex	558	1506	5.68	0.000003	i acid
2049	Silver(I) lactate monohydrate	AgC ₃ H ₅ O ₃ · H ₂ O	128-00-7	214.954	gray cry powder					sl H ₂ O, EtOH
2050	Silver(I) metaphosphate	AgPO ₃	13465-96-8	186.840	grn glass	490		6.37		i H ₂ O; s HNO ₃ , NH ₄ OH
2051	Silver(I) molybdate	Ag ₂ MoO ₄	13765-74-7	375.67	yel cub cry	483		6.18		sl H ₂ O
2052	Silver(I) nitrate	AgNO ₃	7761-88-8	169.873	col rhomb cry	212	440 dec	4.35	234 ²⁵	sl EtOH, ace
2053	Silver(I) nitrite	AgNO ₂	7783-99-5	153.874	yel needles	140 dec		4.453	0.415 ²⁵	i EtOH; reac acid
2054	Silver(I) oxalate	Ag ₂ C ₂ O ₄	533-51-7	303.755	wh cry powder	exp 140		5.03	0.0043 ²⁰	
2055	Silver(I) oxide	Ag ₂ O	20667-12-3	231.735	brn-blk cub cry	≈200 dec		7.2	0.0025	i EtOH; s acid, alk
2056	Silver(I) perchlorate	AgClO ₄	7783-93-9	207.319	col cub cry; hyg	486 dec		2.806	558 ²⁵	s bz, py, os
2057	Silver(I) perchlorate monohydrate	AgClO ₄ · H ₂ O	14242-05-8	225.334	hyg wh cry	43 dec			558 ²⁵	
2058	Silver(I) permanganate	AgMnO ₄	7783-98-4	226.804	viol monoc cry	dec		4.49	0.91 ¹⁸	reac EtOH
2059	Silver(I) phosphate	Ag ₃ PO ₄	7784-09-0	418.576	yel powder	849		6.37	0.0064	sl dil acid
2060	Silver(I) picrate monohydrate	AgC ₆ H ₃ N ₃ O ₇ · H ₂ O	146-84-9	353.979	yel cry					sl H ₂ O, EtOH; i chl, eth
2061	Silver(I) selenate	Ag ₂ SeO ₄	7784-07-8	358.69	orth cry			5.72	0.118 ²⁰	
2062	Silver(I) selenide	Ag ₂ Se	1302-09-6	294.70	gray hex needles	880		8.216		i H ₂ O
2063	Silver(I) selenite	Ag ₂ SeO ₃	7784-05-6	342.69	needles	530	>550 dec	5.930		sl H ₂ O; s acid
2064	Silver(I) sulfate	Ag ₂ SO ₄	10294-26-5	311.800	col cry or powder	652		5.45	0.84 ²⁵	
2065	Silver(I) sulfide	Ag ₂ S	21548-73-2	247.802	gray-blk orth powder	825		7.23		i H ₂ O; s acid
2066	Silver(I) sulfite	Ag ₂ SO ₃	13465-98-0	295.800	wh cry	100 dec			0.00046 ²⁰	s acid, NH ₄ OH
2067	Silver(I) telluride	Ag ₂ Te	12002-99-2	343.34	blk orth cry	955		8.4		
2068	Silver(I) tetraiodomercurate(II)	Ag ₂ HgI ₄	7784-03-4	923.94	yel tetr cry	trans to red cub ≈40		6.1		i H ₂ O, dil acid
2069	Silver(I) thiocyanate	AgSCN	1701-93-5	165.952	wh powder	dec				i H ₂ O
2070	Silver(I) thiosulfate	Ag ₂ S ₂ O ₃	23149-52-2	327.866	wh cry	dec				sl H ₂ O; s NH ₄ OH
2071	Silver(II) oxide	AgO	1301-96-8	123.867	gray powder; monoc or cub	>100 dec		7.5	0.0027 ²⁵	s alk; reac acid
2072	Silver(I) tungstate	Ag ₂ WO ₄	13465-93-5	463.57	yel cry	620			0.015	s HNO ₃ , NH ₄ OH
2073	Silver(II) fluoride	AgF ₂	7783-95-1	145.865	wh or gray hyg cry	690		4.58		reac H ₂ O
2074	Silver(II) oxide (Ag2O2)	Ag ₂ O ₂	25455-73-6	247.735	gray-blk cub cry	>100		7.44		i H ₂ O; s acid, NH ₄ OH
2075	Sodium	Na	7440-23-5	22.990	soft silv met; cub	97.794	882.940	0.97		reac H ₂ O
2076	Sodium acetate	NaC ₂ H ₃ O ₂	127-09-3	82.034	col cry	328.2		1.528	50.4 ²⁵	
2077	Sodium acetate trihydrate	NaC ₂ H ₃ O ₂ · 3H ₂ O	6131-90-4	136.079	col cry	58 dec		1.45	50.4 ²⁵	sl EtOH
2078	Sodium aluminate	NaAlO ₂	1302-42-7	81.971	wh orth cry; hyg	1650		4.63		vs H ₂ O; i EtOH
2079	Sodium aluminum hydride	NaAlH ₄	13770-96-2	54.004	wh hyg solid	174 dec		1.24		i eth; s thf
2080	Sodium aluminum sulfate dodecahydrate	NaAl(SO ₄) ₂ · 12H ₂ O	10102-71-3	458.283	col cry	≈60		1.61	39.7 ²⁰	i EtOH
2081	Sodium amide	NaNH ₂	7782-92-5	39.013	wh-grn orth cry	210	500 dec	1.39		reac H ₂ O
2082	Sodium ammonium phosphate tetrahydrate	NaNH ₄ HPO ₄ · 4H ₂ O	13011-54-6	209.069	monoc cry	≈80 dec		1.54		s H ₂ O; i EtOH
2083	Sodium arsenite	NaAsO ₂	7784-46-5	129.911	wh-gray hyg powder			1.87		vs H ₂ O; i EtOH
2084	Sodium azide	NaN ₃	26628-22-8	65.010	col hex cry	300 dec		1.846	40.8 ²⁰	sl EtOH; i eth

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2085	Sodium borohydride	NaBH ₄	16940-66-2	37.833	wh cub cry; hyg	≈400 dec		1.07	55 ²⁰	reac EtOH
2086	Sodium bromate	NaBrO ₃	7789-38-0	150.892	col cub cry	381		3.34	39.4 ²⁵	i EtOH
2087	Sodium bromide	NaBr	7647-15-6	102.894	wh cub cry	747	1390	3.200	94.6 ²⁵	s EtOH
2088	Sodium bromide dihydrate	NaBr · 2H ₂ O	13466-08-5	138.925	wh cry	36 dec		2.18	94.6 ²⁵	sl EtOH
2089	Sodium carbonate	Na ₂ CO ₃	497-19-8	105.989	wh hyg powder	858.1		2.54	30.7 ²⁵	i EtOH
2090	Sodium carbonate decahydrate	Na ₂ CO ₃ · 10H ₂ O	6132-02-1	286.142	col cry	34 dec		1.46	30.7 ²⁵	i EtOH
2091	Sodium carbonate monohydrate	Na ₂ CO ₃ · H ₂ O	5968-11-6	124.005	col orth cry	100 dec		2.25	30.7 ²⁵	i EtOH
2092	Sodium chlorate	NaClO ₃	7775-09-9	106.441	col cub cry	248	>300 dec	2.5	100 ²⁵	sl EtOH
2093	Sodium chloride	NaCl	7647-14-5	58.443	col cub cry	800.7	1465	2.17	36.0 ²⁵	sl EtOH
2094	Sodium chlorite	NaClO ₂	7758-19-2	90.442	wh hyg cry	≈180 dec			64 ¹⁷	
2095	Sodium chromate	Na ₂ CrO ₄	7775-11-3	161.974	yel orth cry	792		2.72	87.6 ²⁵	sl EtOH
2096	Sodium chromate tetrahydrate	Na ₂ CrO ₄ · 4H ₂ O	10034-82-9	234.035	yel hyg cry	dec			87.6 ²⁵	sl EtOH
2097	Sodium citrate dihydrate	Na ₃ C ₆ H ₅ O ₇ · 2H ₂ O	6132-04-3	294.099	wh cry	150 dec				vs H ₂ O; i EtOH, eth
2098	Sodium cyanate	NaCNO	917-61-3	65.007	col needles	550		1.89		s H ₂ O; sl EtOH; i eth
2099	Sodium cyanide	NaCN	143-33-9	49.008	wh cub cry; hyg	563		1.6	58.2 ²⁰	sl EtOH
2100	Sodium cyanoborohydride	NaBH ₃ (CN)	25895-60-7	62.843	wh hyg powder	240 dec		1.12		vs H ₂ O; s thf; sl EtOH; i bz, eth
2101	Sodium dichromate	Na ₂ Cr ₂ O ₇	10588-01-9	261.968	red hyg cry	357	400 dec		187 ²⁵	
2102	Sodium dihydrogen phosphate	NaH ₂ PO ₄	7558-80-7	119.977	col mono cry	200 dec			94.9 ²⁵	
2103	Sodium dihydrogen phosphate monohydrate	NaH ₂ PO ₄ · H ₂ O	10049-21-5	137.993	wh hyg cry	100 dec			94.9 ²⁵	i EtOH
2104	Sodium dihydrogen phosphate dihydrate	NaH ₂ PO ₄ · 2H ₂ O	13472-35-0	156.008	col orth cry	60 dec		1.91	94.9 ²⁵	i EtOH
2105	Sodium dihydrogen hypophosphate hexahydrate	Na ₂ H ₂ P ₂ O ₆ · 6H ₂ O	7782-95-8*	314.031	mono plates	110 dec		1.849	2.0 ²⁵	i EtOH
2106	Sodium dihydrogen pyrophosphate	Na ₂ H ₂ P ₂ O ₇	7758-16-9	221.939	wh powder	220 dec		≈1.9		s H ₂ O
2107	Sodium dithionate	Na ₂ S ₂ O ₄	7775-14-6	174.110	gray-wh pow	52 dec			24.1 ²⁰	sl EtOH
2108	Sodium dithionate dihydrate	Na ₂ S ₂ O ₆ · 2H ₂ O	7631-94-9*	242.139	col orth cry	110 dec		2.19	15.1 ²⁰	i EtOH
2109	Sodium ethanolate	NaC ₂ H ₅ O	141-52-6	68.050	wh-yel hyg pow					reac H ₂ O; s EtOH
2110	Sodium ferricyanide monohydrate	Na ₃ Fe(CN) ₆ · H ₂ O	14217-21-1*	298.933	red hyg cry					s H ₂ O; i EtOH
2111	Sodium ferrocyanide decahydrate	Na ₄ Fe(CN) ₆ · 10H ₂ O	13601-19-9	484.061	yel monocl cry	≈50 dec		1.46	20 ²⁰	i os
2112	Sodium fluoride	NaF	7681-49-4	41.988	col cub or tetr cry	996	1704	2.78	4.13 ²⁵	i EtOH
2113	Sodium tetrafluoroborate	NaBF ₄	13755-29-8	109.795	wh orth prisms	384		2.47	108 ²⁰	sl EtOH
2114	Sodium fluorophosphate	Na ₂ PO ₃ F	10163-15-2	143.950	pow					
2115	Sodium formate	NaCHO ₂	141-53-7	68.008	wh hyg cry	257.3	dec	1.92	94.9 ²⁵	sl EtOH
2116	Sodium germanate	Na ₂ GeO ₃	12025-19-3	166.59	wh mono hyg cry	1083		3.31		
2117	Sodium hexabromoplatinate(IV) hexahydrate	Na ₂ PtBr ₆ · 6H ₂ O	39277-13-9	828.57	cry					
2118	Sodium hexachloroiridate(IV) hexahydrate	Na ₂ IrCl ₆ · 6H ₂ O	19567-78-3	559.004	cry	600 dec				
2119	Sodium hexachloroplatinate(IV)	Na ₂ PtCl ₆	16923-58-3	453.77	yel hyg cry				53 ¹⁶	s EtOH
2120	Sodium hexachloroplatinate(IV) hexahydrate	Na ₂ PtCl ₆ · 6H ₂ O	16923-58-3	561.87	yel cry	110 dec		2.50	53 ¹⁶	s EtOH; i eth
2121	Sodium hexafluoroaluminate	Na ₂ AlF ₆	13775-53-6	209.941	col monocl cry; trans cub 560	1009		2.97		i H ₂ O
2122	Sodium hexafluoroantimonate	NaSbF ₆	16925-25-0	258.740	wh cub cry			3.375	129 ²⁰	s EtOH, ace
2123	Sodium hexafluorophosphate monohydrate	NaPF ₆ · H ₂ O	20644-15-9	185.969	col orth cry			2.369	103 ⁰	s EtOH, MeOH, ace
2124	Sodium hexafluorosilicate	Na ₂ SiF ₆	16893-85-9	188.056	wh hex cry	dec		2.7	0.67 ²⁰	i EtOH
2125	Sodium hexanitrocobaltate(III)	Na ₃ Co(NO ₂) ₆	14649-73-1	403.935	yel-brn cry pow					vs H ₂ O; sl EtOH
2126	Sodium hydride	NaH	7646-69-7	23.998	silv cub cry; flam	425 dec		1.39		reac H ₂ O, EtOH
2127	Sodium hydrogen arsenate	Na ₂ HAsO ₄	7778-43-0	185.908	wh pow	≈195 dec			51 ²⁰	sl EtOH

2128	Sodium hydrogen arsenate heptahydrate	$\text{Na}_2\text{HASO}_4 \cdot 7\text{H}_2\text{O}$	10048-95-0	312.014	wh monocl cry	≈50 dec		1.87	51 ²⁰	sl EtOH
2129	Sodium hydrogen carbonate	NaHCO_3	144-55-8	84.007	wh monocl cry	≈50 dec		2.20	10.3 ²⁵	i EtOH
2130	Sodium hydrogen fluoride	NaHF_2	1333-83-1	61.995	wh hex cry	>160 dec		2.08	3.25 ²⁰	
2131	Sodium hydrogen phosphate	Na_2HPO_4	7558-79-4	141.959	wh hyg powder			1.7	11.8 ²⁵	
2132	Sodium hydrogen phosphate dodecahydrate	$\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$	10039-32-4	358.143	col cry	≈35 dec		≈1.5	11.8 ²⁵	i EtOH
2133	Sodium hydrogen phosphate heptahydrate	$\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$	7782-85-6	268.066	col cry			≈1.7	11.8 ²⁵	i EtOH
2134	Sodium hydrogen sulfate	NaHSO_4	7681-38-1	120.062	wh hyg cry	≈315		2.43	28.5 ²⁵	
2135	Sodium hydrogen sulfate monohydrate	$\text{NaHSO}_4 \cdot \text{H}_2\text{O}$	10034-88-5	138.077	wh monocl cry			2.10	28.5 ²⁵	reac EtOH
2136	Sodium hydrogen sulfide	NaHS	16721-80-5	56.064	col rhomb cry	350		1.79		s H_2O , EtOH, eth
2137	Sodium hydrogen sulfide dihydrate	$\text{NaHS} \cdot 2\text{H}_2\text{O}$	16721-80-5	92.095	yel hyg needles	55 dec				vs H_2O , EtOH, eth
2138	Sodium hydrogen sulfite	NaHSO_3	7631-90-5	104.062	wh cry			1.48		s H_2O ; sl EtOH
2139	Sodium hydroxide	NaOH	1310-73-2	39.997	wh orth cry; hyg	323	1388	2.13	100 ²⁵	s EtOH, MeOH
2140	Sodium hypochlorite	NaClO	7681-52-9	74.442	stable in aq soln	anh form exp			79.9 ²⁵	
2141	Sodium hypochlorite pentahydrate	$\text{NaOCl} \cdot 5\text{H}_2\text{O}$	10022-70-5	164.518	pale grn orth cry	18		1.6		s H_2O
2142	Sodium iodate	NaIO_3	7681-55-2	197.892	wh orth cry	dec		4.28	9.47 ²⁵	i EtOH
2143	Sodium iodide	NaI	7681-82-5	149.894	wh cub cry; hyg	660	1304	3.67	184 ²⁵	s EtOH, ace
2144	Sodium bismuthate	NaBiO_3	12232-99-4	279.968	yel-brn hyg cry					i cold H_2O ; reac acid
2145	Sodium metabisulfite	$\text{Na}_2\text{S}_2\text{O}_5$	7681-57-4	190.109	wh cry				66.7 ²⁵	sl EtOH
2146	Sodium metaborate	NaBO_2	7775-19-1	65.800	wh hex cry	966	1434	2.46		s H_2O
2147	Sodium metasilicate	Na_2SiO_3	6834-92-0	122.064	wh amorp solid; hyg	1089		2.61		s cold H_2O ; reac hot H_2O
2148	Sodium molybdate	Na_2MoO_4	7631-95-0	205.92	col cub cry	687		≈3.5	65.0 ²⁵	
2149	Sodium molybdate dihydrate	$\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$	10102-40-6	241.95	cry powder	100 dec		≈3.5	65.0 ²⁵	
2150	Sodium niobate	NaNbO_3	12034-09-2	163.894	rhomb cry	1422		4.55		i H_2O
2151	Sodium nitrate	NaNO_3	7631-99-4	84.995	col hex cry; hyg	307		2.26	91.2 ²⁵	sl EtOH, MeOH
2152	Sodium nitrite	NaNO_2	7632-00-0	68.996	wh orth cry; hyg	271	>320 dec	2.17	84.8 ²⁵	sl EtOH; reac acid
2153	Sodium nitroprusside dihydrate	$\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}] \cdot 2\text{H}_2\text{O}$	13755-38-9	297.949	red cry			1.72	40 ¹⁶	sl EtOH
2154	Sodium orthovanadate	Na_3VO_4	13721-39-6	183.909	col hex prisms	860				s H_2O ; i EtOH
2155	Sodium oxalate	$\text{Na}_2\text{C}_2\text{O}_4$	62-76-0	133.999	wh powder	≈250 dec		2.34	3.61 ²⁵	i EtOH
2156	Sodium oxide	Na_2O	1313-59-3	61.979	wh amorp powder	1132 dec		2.27		reac H_2O
2157	Sodium perborate tetrahydrate	$\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$	7632-04-4	153.861	wh cry	60 dec				reac H_2O
2158	Sodium perchlorate	NaClO_4	7601-89-0	122.441	wh orth cry; hyg	480 dec		2.52	205 ²⁵	
2159	Sodium perchlorate monohydrate	$\text{NaClO}_4 \cdot \text{H}_2\text{O}$	7791-07-3	140.456	wh hyg cry	≈130 dec		2.02	205 ²⁵	
2160	Sodium periodate	NaIO_4	7790-28-5	213.892	wh tetr cry	≈300 dec		3.86	14.4 ²⁵	s acid
2161	Sodium periodate trihydrate	$\text{NaIO}_4 \cdot 3\text{H}_2\text{O}$	13472-31-6	267.938	wh hex cry	175 dec		3.22	14.4 ²⁵	
2162	Sodium permanganate trihydrate	$\text{NaMnO}_4 \cdot 3\text{H}_2\text{O}$	10101-50-5*	195.972	red-blk hyg cry	170 dec		2.47	144 ²⁰	reac EtOH
2163	Sodium peroxide	Na_2O_2	1313-60-6	77.979	yel hyg powder	675		2.805		reac H_2O
2164	Sodium perthenate	NaReO_4	13472-33-8	273.195	cry	300		5.39		
2165	Sodium persulfate	$\text{Na}_2\text{S}_2\text{O}_8$	7775-27-1	238.107	wh hyg cry					vs H_2O ; reac EtOH
2166	Sodium phosphate dodecahydrate	$\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$	10101-89-0	380.124	col hex cry	≈75		1.62	14.4 ²⁵	i EtOH
2167	Chlorinated trisodium phosphate	$\text{Na}_3\text{PO}_4 \cdot \text{NaOCl}$	56802-99-4	238.383	wh cry				25 ²⁵	
2168	Sodium phosphinate	NaH_2PO_2	7681-53-0	87.979	wh cry				100 ²⁵	
2169	Sodium phosphinate monohydrate	$\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O}$	10039-56-2	105.994	col hyg cry	310 dec			100 ²⁵	s EtOH
2170	Sodium potassium tartrate tetrahydrate	$\text{NaKC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$	304-59-6	282.220	wh cry	≈70 dec	anh at 130	1.79		vs H_2O ; i EtOH
2171	Sodium pyrophosphate	$\text{Na}_2\text{P}_2\text{O}_7$	7722-88-5	265.902	col cry	988		2.53	7.09 ²⁵	
2172	Sodium selenate	Na_2SeO_4	13410-01-0	188.94	col orth cry				58.5 ²⁵	
2173	Sodium selenate decahydrate	$\text{Na}_2\text{SeO}_4 \cdot 10\text{H}_2\text{O}$	10102-23-5	369.09	wh cry			1.61	58.5 ²⁵	
2174	Sodium selenide	Na_2Se	1313-85-5	124.94	amorp solid	>875		2.62		reac H_2O
2175	Sodium selenite	Na_2SeO_3	10102-18-8	172.94	wh tetr cry				89.8 ²⁵	i EtOH

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2176	Sodium stearate	NaC ₁₈ H ₃₅ O ₂	822-16-2	306.460	wh pow					sl H ₂ O, EtOH; vs hot H ₂ O
2177	Sodium succinate hexahydrate	Na ₂ C ₄ H ₄ O ₄ · 6H ₂ O	150-90-3	270.144	cry pow	120 dec			20	i EtOH
2178	Sodium sulfate	Na ₂ SO ₄	7757-82-6	142.044	wh orth cry or powder	884		2.7	28.1 ²⁵	i EtOH
2179	Sodium sulfate decahydrate	Na ₂ SO ₄ · 10H ₂ O	7727-73-3	322.197	col monocl cry	32 dec		1.46	28.1 ²⁵	i EtOH
2180	Sodium sulfide	Na ₂ S	1313-82-2	78.046	wh cub cry; hyg	1172		1.856	20.6 ²⁵	sl EtOH; i eth
2181	Sodium sulfide nonahydrate	Na ₂ S · 9H ₂ O	1313-84-4	240.184	wh-yel hyg cry	≈50 dec		1.43	20.6 ²⁵	sl EtOH; i eth
2182	Sodium sulfide pentahydrate	Na ₂ S · 5H ₂ O	1313-83-3	168.122	col orth cry	120 dec		1.58	20.6 ²⁵	s EtOH; i eth
2183	Sodium sulfite	Na ₂ SO ₃	7757-83-7	126.044	wh hex cry	dec		2.63	30.7 ²⁵	i EtOH
2184	Sodium sulfite heptahydrate	Na ₂ SO ₃ · 7H ₂ O	10102-15-5	252.151	wh monocl cry; unstable			1.56	30.7 ²⁵	sl EtOH
2185	Sodium superoxide	NaO ₂	12034-12-7	54.989	yel cub cry	552		2.2		reac H ₂ O
2186	Sodium tellurate	Na ₂ TeO ₄	10101-83-4	237.58	wh powder				0.8	
2187	Sodium tellurite	Na ₂ TeO ₃	10102-20-2	221.58	wh rhomb prisms					sl H ₂ O
2188	Sodium tetraborate	Na ₂ B ₄ O ₇	1330-43-4	201.220	col gl solid; hyg	743	1575	2.4	3.17 ²⁵	sl MeOH
2189	Sodium tetraborate decahydrate	Na ₂ B ₄ O ₇ · 10H ₂ O	1303-96-4	381.373	wh monocl cry	75 dec		1.73	3.17 ²⁵	i EtOH
2190	Sodium tetraborate pentahydrate	Na ₂ B ₄ O ₇ · 5H ₂ O	12045-88-4	291.296	hex cry	dec		1.88	3.17 ²⁵	
2191	Sodium tetraborate tetrahydrate	Na ₂ B ₄ O ₇ · 4H ₂ O	12045-87-3	273.281	wh monocl cry			1.95	3.17 ²⁵	
2192	Sodium tetrachloroaluminate	NaAlCl ₄	7784-16-9	191.783	orth cry			2.01		s H ₂ O
2193	Sodium tetrachloroaurate(III) dihydrate	NaAuCl ₄ · 2H ₂ O	13874-02-7	397.799	oran-yel rhom cry	100 dec			150 ¹⁰	s EtOH, eth
2194	Sodium tetrachloropalladate(II) trihydrate	Na ₂ PdCl ₄ · 3H ₂ O	13820-53-6	348.26	brn-red hyg cry					vs H ₂ O; s EtOH
2195	Sodium tetrachloroplatinate(II) tetrahydrate	Na ₂ PtCl ₄ · 4H ₂ O	10026-00-3	454.93	red prisms	100				s H ₂ O, EtOH
2196	Sodium tetrafluoroberyllate	Na ₂ BeF ₄	13871-27-7	130.986	orth cry	575		2.47		sl H ₂ O
2197	Sodium thiocyanate	NaSCN	540-72-7	81.074	col hyg cry	287			151 ²⁵	
2198	Sodium thiophosphate dodecahydrate	Na ₂ PO ₃ S · 12H ₂ O	10101-88-9	396.191	hex hyg leaflets	60				vs hot H ₂ O
2199	Sodium thiosulfate	Na ₂ S ₂ O ₃	7772-98-7	158.110	col mono cry	100 dec		1.69	76.4 ²⁵	i EtOH
2200	Sodium thiosulfate pentahydrate	Na ₂ S ₂ O ₃ · 5H ₂ O	10102-17-7	248.186	col cry	≈50 dec		1.69	76.4 ²⁵	i EtOH
2201	Sodium trimetaphosphate	Na ₃ (PO ₃) ₃	7785-84-4	305.885	wh cry			2.49	22	
2202	Sodium trimetaphosphate hexahydrate	Na ₃ (PO ₃) ₃ · 6H ₂ O	7785-84-4	413.976	tricl-rhom hyg prisms	53		1.786	22	i EtOH
2203	Sodium tripolyphosphate	Na ₃ P ₃ O ₁₀	7758-29-4	367.864	wh hyg pow	622			20 ²⁵	
2204	Sodium tungstate	Na ₂ WO ₄	13472-45-2	293.82	wh rhom cry	695		4.18	74.2 ²⁵	
2205	Sodium tungstate dihydrate	Na ₂ WO ₄ · 2H ₂ O	10213-10-2	329.85	wh orth cry	100 dec		3.25	74.2 ²⁵	i EtOH
2206	Sodium uranate(VI) monohydrate	Na ₂ U ₂ O ₇ · H ₂ O	13721-34-1	652.049	yel pow					i H ₂ O; s acid
2207	Sodium vanadate(V)	NaVO ₃	13718-26-8	121.930	col mono prisms	630			21 ²⁵	
2208	Sodium vanadate(V) tetrahydrate	NaVO ₃ · 4H ₂ O	13718-26-8	193.992	yel-wh cry pow				21 ²⁵	
2209	Strontium	Sr	7440-24-6	87.62	silv-wh metal; cub	777	1382	2.64		reac H ₂ O; s EtOH
2210	Strontium arsenite tetrahydrate	Sr(AsO ₂) ₂ · 4H ₂ O	10378-48-0	373.52	wh pow					sl H ₂ O, EtOH; sol dil acid
2211	Strontium bromate monohydrate	Sr(BrO ₃) ₂ · H ₂ O	14519-18-7	361.44	yel hyg mono cry	120 dec		3.773	39.0 ²⁵	
2212	Strontium bromide	SrBr ₂	10476-81-0	247.43	wh tetr cry	657		4.216	107 ²⁵	
2213	Strontium bromide hexahydrate	SrBr ₂ · 6H ₂ O	7789-53-9	355.52	col hyg cry	88 dec			107 ²⁵	s EtOH; i eth
2214	Strontium carbide	SrC ₂	12071-29-3	111.64	blk tetr cry	>1700		3.19		i H ₂ O
2215	Strontium carbonate	SrCO ₃	1633-05-2	147.63	wh orth cry; hyg	1494		3.5	0.00034 ²⁰	s dil acid
2216	Strontium chlorate	Sr(ClO ₃) ₂	7791-10-8	254.52	col cry	120 dec		3.15	176 ²⁵	sl EtOH
2217	Strontium chloride	SrCl ₂	10476-85-4	158.53	wh cub cry; hyg	874	1250	3.052	54.7 ²⁵	
2218	Strontium chloride hexahydrate	SrCl ₂ · 6H ₂ O	10025-70-4	266.62	col hyg cry	100 dec		1.96	54.7 ²⁵	s EtOH
2219	Strontium chromate	SrCrO ₄	7789-06-2	203.61	yel monocl cry	dec		3.9	0.106 ²⁰	s dil acid
2220	Strontium cyanide dihydrate	Sr(CN) ₂ · 4H ₂ O		211.72	wh hyg cry	dec				vs H ₂ O

2221	Strontium ferrocyanide pentadecahydrate	SrFe(CN) ₆ · 15H ₂ O	569.80	yel mono cry				50	
2222	Strontium fluoride	SrF ₂	7783-48-4	125.62	wh cub cry or powder	1477	2460	4.24	0.021 ²⁵ s dil acid
2223	Strontium formate	Sr(CHO ₂) ₂	592-89-2	177.66	wh cry	71.9		2.693	9.1 ⁰
2224	Strontium formate dihydrate	Sr(CHO ₂) ₂ · 2H ₂ O	6160-34-5	213.69	col rhom cry	100 dec		2.25	9.1 ³⁷ i EtOH, eth
2225	Strontium hexaboride	SrB ₆	12046-54-7	152.49	blk cub cry	2235		3.39	i H ₂ O; s HNO ₃
2226	Strontium hydride	SrH ₂	13598-33-9	89.64	orth cry	1050		3.26	reac H ₂ O
2227	Strontium hydroxide	Sr(OH) ₂	18480-07-4	121.64	col orth cry; hyg	535	710 dec	3.625	2.25 ²⁵
2228	Strontium iodate	Sr(IO ₃) ₂	13470-01-4	437.43	tricl cry			5.045	0.165 ²⁵
2229	Strontium iodide	SrI ₂	10476-86-5	341.43	wh hyg cry	538	1773 dec	4.55	177 ²⁵
2230	Strontium iodide hexahydrate	SrI ₂ · 6H ₂ O	73796-25-5	449.52	wh-yel hex cry; hyg	120 dec		4.4	177 ²⁵ s EtOH
2231	Strontium niobate	SrNb ₂ O ₆	12034-89-8	369.43	monocl cry	1225		5.11	i H ₂ O
2232	Strontium nitrate	Sr(NO ₃) ₂	10042-76-9	211.63	wh cub cry	570	645	2.99	80.2 ²⁵ sl EtOH, ace
2233	Strontium nitride	Sr ₃ N ₂	12033-82-8	290.87	refrac solid	1200			reac H ₂ O; s HCl
2234	Strontium nitrite	Sr(NO ₂) ₂	13470-06-9	179.63	wh-yel hyg needles	240 dec		2.8	72.1 ³⁰
2235	Strontium oxide	SrO	1314-11-0	103.62	col cub cry	2531		5.1	reac H ₂ O
2236	Strontium perchlorate	Sr(ClO ₄) ₂	13450-97-0	286.52	col hyg cry				306 ²⁵ s EtOH, MeOH
2237	Strontium permanganate trihydrate	Sr(MnO ₄) ₂ · 3H ₂ O		379.54	pur cub cry	175 dec		2.75	250 ¹⁸
2238	Strontium peroxide	SrO ₂	1314-18-7	119.62	wh tetr cry; unstable	215 dec		4.78	reac H ₂ O
2239	Strontium phosphate	Sr ₃ (PO ₄) ₂	7446-28-8	452.80	wh powder				0.000011 ²⁰ s acid
2240	Strontium selenate	SrSeO ₄	7446-21-1	230.58	orth cry			4.25	0.115 ²⁰ s hot HCl
2241	Strontium selenide	SrSe	1315-07-7	166.58	wh cub cry	1600		4.54	
2242	Strontium orthosilicate	Sr ₂ SiO ₄	13597-55-2	267.32	orth cry			4.5	
2243	Strontium silicide	SrSi ₂	12138-28-2	143.79	silv-gray cub cry	1100		3.35	
2244	Strontium sulfate	SrSO ₄	7759-02-6	183.68	wh orth cry	1606		3.96	0.0135 ²⁵ i EtOH; sl acid
2245	Strontium sulfide	SrS	1314-96-1	119.69	gray cub cry	2226		3.70	sl H ₂ O; s acid
2246	Strontium sulfite	SrSO ₃	13451-02-0	167.68	col cry	dec			0.0015 ²⁵ s H ₂ SO ₄ , HCl
2247	Strontium telluride	SrTe	12040-08-3	215.22	wh cub cry			4.83	
2248	Strontium thiosulfate pentahydrate	SrS ₂ O ₃ · 5H ₂ O	15123-90-7	289.83	mono needles	100 dec		2.17	36.3 ²⁵ i EtOH
2249	Strontium titanate	SrTiO ₃	12060-59-2	183.49	wh cub cry	2080		5.1	i H ₂ O
2250	Strontium tungstate	SrWO ₄	13451-05-3	335.46	col tetr cry	dec		6.187	0.14 ¹⁵ i EtOH
2251	Sulfur (rhombic)	S	7704-34-9	32.066	yel orth cry	95.3 (trans to monocl)	444.60	2.07	i H ₂ O; sl EtOH, bz, eth; s CS ₂
2252	Sulfur (monoclinic)	S	7704-34-9	32.066	yel monocl needles, stable 95.3-120	115.21	444.60	2.07	i H ₂ O; sl EtOH, bz, eth; s CS ₂
2253	Sulfuric acid	H ₂ SO ₄	7664-93-9	98.080	col oily liq	10.31	337	1.8302 ²⁰	vs H ₂ O
2254	Peroxydisulfuric acid	H ₂ S ₂ O ₈	7722-86-3	114.079	wh cry; unstable	45 dec			vs H ₂ O
2255	Nitrosylsulfuric acid	HNOSO ₄	7782-78-7	127.078	prisms	73 dec			reac H ₂ O; s H ₂ SO ₄
2256	Chlorosulfonic acid	SO ₂ (OH)Cl	7790-94-5	116.525	col-yel liq	-80	152	1.75	reac H ₂ O; s py
2257	Fluorosulfonic acid	SO ₂ (OH)F	7789-21-1	100.070	col liq	-89	163	1.726	reac H ₂ O
2258	Sulfurous acid	H ₂ SO ₃	7782-99-2	82.080	exists only in soln				soln of SO ₂ in H ₂ O
2259	Sulfamic acid	H ₂ NSO ₃ H	5329-14-6	97.095	orth cry	≈205 dec		2.15	14.7 ⁰ sl ace; i eth
2260	Sulfur dioxide	SO ₂	7446-09-5	64.065	col gas	-75.5	-10.05	2.619 g/L	s H ₂ O, EtOH, eth, chl
2261	Sulfur trioxide	SO ₃	7446-11-9	80.064	col liq	16.8	45	1.92	reac H ₂ O
2262	Sulfur bromide	SSBr ₂	13172-31-1	223.940	red oily liq	-46	>25 dec	2.63	reac H ₂ O
2263	Sulfur chloride	SSCl ₂	10025-67-9	135.037	yel-red oily liq	-77	137	1.69	reac H ₂ O; s EtOH, bz, eth, etc
2264	Sulfur fluoride	SSF ₂	16860-99-4	102.129	col gas	-164.6	-10.6	4.174 g/L	reac H ₂ O
2265	Sulfur fluoride	FSSF	13709-35-8	102.129	col gas	-133	15	4.174 g/L	reac H ₂ O
2266	Sulfur dichloride	SCI ₂	10545-99-0	102.971	red visc liq	-122	59.6	1.62	reac H ₂ O
2267	Sulfur tetrafluoride	SF ₄	7783-60-0	108.060	col gas	-125	-40.45	4.417 g/L	reac H ₂ O

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2268	Sulfur hexafluoride	SF ₆	2551-62-4	146.056	col gas	-50.7 tp	-63.8 sp	5.970 g/L		sl H ₂ O; s EtOH
2269	Sulfur bromide pentafluoride	SF ₅ Br	15607-89-3	206.962	col gas	-79	3.1	8.459 g/L		
2270	Sulfur chloride pentafluoride	SF ₅ Cl	13780-57-9	162.511	col gas	-64	-19.05	6.642 g/L		
2271	Sulfur decafluoride	S ₂ F ₁₀	5714-22-7	254.116	liq	-52.7	30; dec 150	2.08		i H ₂ O
2272	Sulfuryl amide	(NH ₂) ₂ SO ₂	7803-58-9	96.110	orth plates	93	250 dec			vs H ₂ O; sl EtOH
2273	Sulfuryl chloride	SO ₂ Cl ₂	7791-25-5	134.970	col liq	-51	69.4	1.680		reac H ₂ O; s bz, tol, eth
2274	Sulfuryl fluoride	SO ₂ F ₂	2699-79-8	102.062	col gas	-135.8	-55.4	4.172 g/L		sl H ₂ O, EtOH; s tol, ctc
2275	Pyrosulfuryl chloride	S ₂ O ₅ Cl ₂	7791-27-7	215.034	col fuming liq	-37	151	1.837		reac H ₂ O
2276	Thionyl bromide	SOBr ₂	507-16-4	207.873	yel liq	-50	140			reac H ₂ O
2277	Thionyl chloride	SOCl ₂	7719-09-7	118.970	yel fuming liq	-101	75.6	1.631		reac H ₂ O; s bz, ctc, chl
2278	Thionyl fluoride	SOF ₂	7783-42-8	86.062	col gas	-129.5	-43.8	3.518 g/L		reac H ₂ O; s bz, eth
2279	Sulfur fluoride hypofluorite	F ₅ SOF	15179-32-5	162.055	col gas	-86	-35.1	6.624 g/L		
2280	Tantalum	Ta	7440-25-7	180.948	gray metal; cub	3007	5458	16.4		reac HF
2281	Tantalum aluminate	TaAl ₃	12004-76-1	261.893	gray refrac powder	≈1400		7.02		i H ₂ O, acid, alk
2282	Tantalum boride	TaB	12007-07-7	191.759	refrac orth cry	2040		14.2		
2283	Tantalum boride	TaB ₂	12007-35-1	202.570	blk hex cry	3140		11.2		i H ₂ O, acid, alk
2284	Tantalum carbide	TaC	12070-06-3	192.959	gold-brown powder; cub	3880	4780	14.3		s HF-HNO ₃ mixture
2285	Tantalum carbide	Ta ₂ C	12070-07-4	373.907	refrac hex cry	3327		15.1		
2286	Tantalum nitride	TaN	12033-62-4	194.955	blk hex cry	3090		13.7		i H ₂ O; sl aqua regia; reac alk
2287	Tantalum silicide	TaSi ₂	12039-79-1	237.119	gray powder	2200		9.14		
2288	Tantalum(IV) oxide	TaO ₂	12036-14-5	212.947	tetr cry			10.0		
2289	Tantalum(IV) selenide	TaSe ₂	12039-55-3	338.87	hex cry			6.7		
2290	Tantalum(IV) sulfide	TaS ₂	12143-72-5	245.080	blk hex cry	>3000		6.86		i H ₂ O
2291	Tantalum(IV) telluride	TaTe ₂	12067-66-2	436.15	monocl cry			9.4		
2292	Tantalum(V) bromide	TaBr ₅	13451-11-1	580.468	yel cry powder	265	349	4.99		
2293	Tantalum(V) chloride	TaCl ₅	7721-01-9	358.212	yel monocl cry; hyg	216	239.35	3.68		reac H ₂ O; s EtOH
2294	Tantalum(V) fluoride	TaF ₅	7783-71-3	275.940	wh monocl cry; hyg	95.1	229.2	5.0		s H ₂ O, eth; sl CS ₂ , ctc
2295	Tantalum(V) iodide	TaI ₅	14693-81-3	815.470	blk hex cry; hyg	496	543	5.80		
2296	Tantalum(V) oxide	Ta ₂ O ₅	1314-61-0	441.893	wh rhomb cry or powder	1784		8.2		i H ₂ O, EtOH, acid; s HF
2297	Technetium	Tc	7440-26-8	98	hex cry	2157	4265	11		
2298	Technetium(V) fluoride	TcF ₅	31052-14-9	193	yel solid	50	dec			
2299	Technetium(VI) fluoride	TcF ₆	13842-93-8	212	yel cub cry	37.4	55.3	3.0		
2300	Tellurium	Te	13494-80-9	127.60	gray-wh rhomb cry	449.51	988	6.24		i H ₂ O, bz, CS ₂
2301	Telluric(VI) acid	H ₆ TeO ₆	7803-68-1	229.64	wh monocl cry	136		3.07	50.1 ³⁰	
2302	Tellurous acid	H ₂ TeO ₃	10049-23-7	177.61	wh cry	40 dec		3.0		sl H ₂ O; s dil acid, alk
2303	Tellurium dioxide	TeO ₂	7446-07-3	159.60	wh orth cry	733	1245	5.9		i H ₂ O; s alk, acid
2304	Tellurium trioxide	TeO ₃	13451-18-8	175.60	yel-oran cry	430		5.07		i H ₂ O
2305	Tellurium dibromide	TeBr ₂	7789-54-0	287.41	grn-brn hyg cry	210	339			reac H ₂ O; s eth; sl chl
2306	Tellurium dichloride	TeCl ₂	10025-71-5	198.51	blk amorp solid; hyg	208	328	6.9		reac H ₂ O; i ctc
2307	Tellurium tetrabromide	TeBr ₄	10031-27-3	447.22	yel-oran monocl cry	388	≈420 dec	4.3		reac H ₂ O; s eth
2308	Tellurium tetrachloride	TeCl ₄	10026-07-0	269.41	wh monocl cry; hyg	224	387	3.0		reac H ₂ O; s EtOH, tol
2309	Tellurium tetrafluoride	TeF ₄	15192-26-4	203.59	col cry	129	195 dec			reac H ₂ O
2310	Tellurium tetraiodide	TeI ₄	7790-48-9	635.22	blk orth cry	280		5.05		reac H ₂ O; sl ace
2311	Tellurium hexafluoride	TeF ₆	7783-80-4	241.59	col gas	-37.6 tp	-38.9 sp	9.875 g/L		reac H ₂ O
2312	Terbium	Tb	7440-27-9	158.925	silv metal; hex	1356	3230	8.23		

2313	Terbium chloride	TbCl ₃	10042-88-3	265.283	wh orth cry; hyg	588		4.35		s H ₂ O
2314	Terbium chloride hexahydrate	TbCl ₃ · 6H ₂ O	13798-24-8	373.374	hyg cry			4.35		vs H ₂ O
2315	Terbium iodide	TbI ₃	13813-40-6	539.638	hex cry; hyg	957		≈5.2		s H ₂ O
2316	Terbium nitrate	Tb(NO ₃) ₃	10043-27-3	344.940	pink hyg solid				157 ²⁵	s EtOH
2317	Terbium nitrate hexahydrate	Tb(NO ₃) ₃ · 6H ₂ O	13451-19-9	453.031	col needles	89				s H ₂ O, EtOH, ace
2318	Terbium nitride	TbN	12033-64-6	172.932	cub cry				9.55	
2319	Terbium oxide	Tb ₂ O ₃	12036-41-8	365.849	wh cub cry	2303			7.91	
2320	Terbium silicide	TbSi ₂	12039-80-4	215.096	orth cry				6.66	
2321	Terbium sulfide	Tb ₂ S ₃	12138-11-3	414.049	cub cry				6.35	
2322	Thallium	Tl	7440-28-0	204.383	soft blue-wh metal	304	1473		11.8	i H ₂ O; reac acid
2323	Thallium(I) acetate	TlC ₂ H ₃ O ₂	563-68-8	263.427	hyg wh cry	131			3.68	s H ₂ O, EtOH
2324	Thallium(I) bromate	TlBrO ₃	14550-84-6	332.285	col needles	120 dec			0.49 ³⁰	s EtOH
2325	Thallium(I) bromide	TlBr	7789-40-4	284.287	yel cub cry	460	819		7.5	0.059 ²⁰
2326	Thallium(I) carbonate	Tl ₂ CO ₃	6533-73-9	468.776	wh monocl cry	272			7.11	4.69 ²⁰
2327	Thallium(I) chlorate	TlClO ₃	13453-30-0	287.834	col hex cry				5.5	3.92 ²⁰
2328	Thallium(I) chloride	TlCl	7791-12-0	239.836	wh cub cry	430	720		7.0	0.33 ²⁰
2329	Thallium(I) chromate	Tl ₂ CrO ₄		524.761	yel cry					0.003 ²⁰
2330	Thallium(I) cyanide	TlCN	13453-34-4	230.401	wh hex plates				6.523	s H ₂ O, acid, EtOH
2331	Thallium(I) ethanolate	TlC ₂ H ₅ O	20398-06-5	249.443	cloudy liq	-3	130 dec		3.49	reac H ₂ O
2332	Thallium(I) fluoride	TlF	7789-27-7	223.381	wh orth cry	326	826		8.36	245 ²⁵
2333	Thallium(I) formate	TlCHO ₂	992-98-3	249.401	hyg col needles	101			4.97	vs H ₂ O; s MeOH
2334	Thallium(I) hexafluorophosphate	TlPF ₆	60969-19-9	349.347	wh cub cry				4.6	
2335	Thallium(I) hydroxide	TlOH	12026-06-1	221.390	yel needles	139 dec			7.44	34.3 ¹⁸
2336	Thallium(I) iodate	TlIO ₃	14767-09-0	379.285	wh needles					0.058
2337	Thallium(I) iodide	TlI	7790-30-9	331.287	yel cry powder	441.7	824		7.1	0.0085 ²⁰
2338	Thallium(I) molybdate	Tl ₂ MoO ₄	34128-09-1	568.71	yel-wh cub cry					i EtOH
2339	Thallium(I) nitrate	TlNO ₃	10102-45-1	266.388	wh cry	206	450 dec		5.55	9.55 ²⁰
2340	Thallium(I) nitrite	TlNO ₂	13826-63-6	250.389	cub cry				5.7	32.1 ²⁵
2341	Thallium(I) oxalate	Tl ₂ C ₂ O ₄	30737-24-7	496.786	wh powder				6.31	1.83 ²⁰
2342	Thallium(I) oxide	Tl ₂ O	1314-12-1	424.766	blk rhomb cry; hyg	579	≈1080		9.52	s H ₂ O, EtOH
2343	Thallium(I) perchlorate	TlClO ₄	13453-40-2	303.834	col orth cry				4.8	19.7 ³⁰
2344	Thallium(I) selenate	Tl ₂ SeO ₄	7446-22-2	551.73	orth cry	>400			6.875	2.8 ²⁰
2345	Thallium(I) selenide	Tl ₂ Se	15572-25-5	487.73	gray plates	340				i H ₂ O, acid
2346	Thallium(I) sulfate	Tl ₂ SO ₄	7446-18-6	504.831	wh rhomb prisms	632			6.77	5.47 ²⁵
2347	Thallium(I) sulfide	Tl ₂ S	1314-97-2	440.833	blue-blk cry	448	1367		8.39	0.02 ²⁰
2348	Thallium(III) bromide tetrahydrate	TlBr ₃ · 4H ₂ O	13701-90-1	516.157	yel orth cry				3.65	s H ₂ O, EtOH
2349	Thallium(III) chloride	TlCl ₃	13453-32-2	310.741	monocl cry	155			4.7	vs H ₂ O, EtOH, eth
2350	Thallium(III) chloride tetrahydrate	TlCl ₃ · 4H ₂ O	13453-32-2*	382.803	orth cry				3.00	s H ₂ O
2351	Thallium(III) fluoride	TlF ₃	7783-57-5	261.378	wh orth cry; hyg	550 dec			8.65	reac H ₂ O
2352	Thallium(III) nitrate	Tl(NO ₃) ₃	13746-98-0	390.398	col cry					reac H ₂ O
2353	Thallium(III) oxide	Tl ₂ O ₃	1314-32-5	456.765	brn cub cry	834			10.2	i H ₂ O; reac acid
2354	Thallium(III) sulfate	Tl ₂ (SO ₄) ₃	16222-66-5	696.958	col leaflets					reac H ₂ O
2355	Thallium selenide	TlSe	12039-52-0	283.34	blk solid	330				i H ₂ O, acid
2356	Thorium	Th	7440-29-1	232.038	soft gray-wh metal; cub	1750	4788		11.7	s acid
2357	Thorium hydride	ThH ₂	16689-88-6	234.054	tetr cry				9.5	
2358	Thorium boride	ThB ₅	12229-63-9	296.904	refrac solid	2450			6.99	
2359	Thorium(IV) bromide	ThBr ₄	13453-49-1	551.654	wh hyg cry	679				65 ²⁰
2360	Thorium carbide	ThC	12012-16-7	244.049	cub cry	2500			10.6	reac H ₂ O

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2361	Thorium dicarbide	ThC ₂	12071-31-7	256.059	yel monoc cry	≈2650		9.0		reac H ₂ O
2362	Thorium(IV) chloride	ThCl ₄	10026-08-1	373.849	gray-wh tetr needles; hyg	770	921	4.59		s H ₂ O, EtOH
2363	Thorium(IV) fluoride	ThF ₄	13709-59-6	308.032	wh monoc cry; hyg	1110	1680	6.1		
2364	Thorium(IV) iodide	ThI ₄	7790-49-0	739.656	wh-yel monoc cry	570	837			
2365	Thorium(IV) nitrate tetrahydrate	Th(NO ₃) ₄ · 4H ₂ O	33088-16-3	552.119	wh hyg cry	500 dec			191 ²⁰	s EtOH
2366	Thorium nitride	ThN	12033-65-7	246.045	refrac cub cry	2820		11.6		reac H ₂ O
2367	Thorium(IV) oxide	ThO ₂	1314-20-1	264.037	wh cub cry	3390	4400	10.0		i H ₂ O, alk; sl acid
2368	Thorium(IV) selenide	ThSe ₂	60763-24-8	389.96	orth cry			8.5		
2369	Thorium orthosilicate	ThSiO ₄	14553-44-7	324.122	brn tetr cry			6.7		
2370	Thorium silicide	ThSi ₂	12067-54-8	288.209	tetr cry	1850		7.9		
2371	Thorium(IV) sulfate nonahydrate	Th(SO ₄) ₂ · 9H ₂ O	10381-37-0	586.303	wh monoc cry	dec		2.8	4.2 ²⁰	
2372	Thorium(IV) sulfide	ThS ₂	12138-07-7	296.170	dark brn cry	1905		7.30		i H ₂ O; s acid
2373	Thulium	Tm	7440-30-4	168.934	silv metal; hex	1545	1950	9.32		s dil acid
2374	Thulium bromide	TmBr ₃	14456-51-0	408.646	wh hyg cry	954				s H ₂ O
2375	Thulium chloride	TmCl ₃	13537-18-3	275.292	yel hyg cry	824				s H ₂ O
2376	Thulium chloride heptahydrate	TmCl ₃ · 7H ₂ O	13778-39-7	401.399	hyg cry					s H ₂ O, EtOH
2377	Thulium fluoride	TmF ₃	13760-79-7	225.929	wh cry	1158				s H ₂ O
2378	Thulium iodide	TmI ₃	13813-43-9	549.647	yel hyg cry	1021				
2379	Thulium nitrate	Tm(NO ₃) ₃	14985-19-4	354.949	grn hyg solid				212 ²⁵	s EtOH
2380	Thulium nitrate pentahydrate	Tm(NO ₃) ₃ · 5H ₂ O	36548-87-5	445.025	grn hyg cry					s H ₂ O, EtOH, ace
2381	Thulium oxide	Tm ₂ O ₃	12036-44-1	385.866	grn-wh cub cry	2341	3945	8.6		sl acid
2382	Tin (gray)	Sn	7440-31-5	118.710	cub cry	trans to wh Sn 13.2	2602	5.769		
2383	Tin (white)	Sn	7440-31-5	118.710	silv tetr cry	231.93	2602	7.265		
2384	Stannane	SnH ₄	2406-52-2	122.742	unstable col gas	-146	-51.8	5.017 g/L		
2385	Methylstannane	SnH ₃ CH ₃	1631-78-3	136.769	col gas		0	5.590 g/L		reac H ₂ O
2386	Tin(II) acetate	Sn(C ₂ H ₃ O ₂) ₂	638-39-1	236.799	wh orth cry	183	subl	2.31		s dil HCl
2387	Tin(II) bromide	SnBr ₂	10031-24-0	278.518	yel powder	215	639	5.12	85 ⁰	s EtOH, eth, ace
2388	Tin(II) chloride	SnCl ₂	7772-99-8	189.615	wh orth cry	247.1	623	3.90	178 ¹⁰	s EtOH, ace, eth; i xyl
2389	Tin(II) chloride dihydrate	SnCl ₂ · 2H ₂ O	10025-69-1	225.646	wh monoc cry	37 dec		2.71	178 ¹⁰	s EtOH, NaOH; vs HCl
2390	Tin(II) fluoride	SnF ₂	7783-47-3	156.707	wh monoc cry; hyg	213	850	4.57		s H ₂ O; i EtOH, eth, chl
2391	Tin(II) hexafluoroantimonate	SnZrF ₆	12419-43-1	323.924	cry			4.21		s H ₂ O
2392	Tin(II) hydroxide	Sn(OH) ₂	12026-24-3	152.725	wh amorp solid					
2393	Tin(II) iodide	SnI ₂	10294-70-9	372.519	red-oran powder	320	714	5.28	0.98 ²⁰	s bz, chl, CS ₂
2394	Tin(II) oxalate	SnC ₂ O ₄	814-94-8	206.729	wh powder	280 dec		3.56		i H ₂ O; s dil HCl
2395	Tin(II) oxide	SnO	21651-19-4	134.709	blue-blk tetr cry	1080 dec		6.45		i H ₂ O, EtOH; s acid
2396	Tin(II) pyrophosphate	Sn ₂ P ₂ O ₇	15578-26-4	411.363	wh amorp powder	400 dec		4.009		i H ₂ O; s conc acid
2397	Tin(II) selenide	SnSe	1315-06-6	197.67	gray orth cry	861		6.18		i H ₂ O; s aqua regia
2398	Tin(II) sulfate	SnSO ₄	7488-55-3	214.774	wh orth cry	378 dec		4.15	18.8 ¹⁹	
2399	Tin(II) sulfide	SnS	1314-95-0	150.776	gray orth cry	880	1210	5.08		i H ₂ O; s conc acid
2400	Tin(II) tartrate	SnC ₄ H ₄ O ₆	815-85-0	266.781	wh cry powder					s H ₂ O, dil HCl
2401	Tin(II) telluride	SnTe	12040-02-7	246.31	gray cub cry	790		6.5		
2402	Tin(IV) bromide	SnBr ₄	7789-67-5	438.326	wh cry	29.1	205	3.34		vs H ₂ O; s EtOH
2403	Tin(IV) chloride	SnCl ₄	7646-78-8	260.521	col fuming liq	-34.07	114.15	2.234		reac H ₂ O; s EtOH, ctc, bz, ace
2404	Tin(IV) chloride pentahydrate	SnCl ₄ · 5H ₂ O	10026-06-9	350.597	wh-yel cry	56 dec		2.04		vs H ₂ O; s EtOH
2405	Tin(IV) chromate	Sn(CrO ₄) ₂	38455-77-5	350.697	brn-yel cry powder	dec				s H ₂ O

2406	Tin(IV) fluoride	SnF ₄	7783-62-2	194.704	wh tetr cry		705 subl	4.78	reac H ₂ O
2407	Tin(IV) iodide	SnI ₄	7790-47-8	626.328	yel-brn cub cry	143	364.35	4.46	reac H ₂ O; s EtOH, bz, chl, eth
2408	Tin(IV) oxide	SnO ₂	18282-10-5	150.709	gray tetr cry	1630		6.85	i H ₂ O, EtOH; s hot conc alk
2409	Tin(IV) selenide	SnSe ₂	20770-09-6	276.63	red-brn cry	650		≈5.0	i H ₂ O; s alk, conc acid
2410	Tin(IV) selenite	Sn(SeO ₃) ₂	7446-25-5	372.63	cry powder				i H ₂ O; s hot HCl
2411	Tin(IV) sulfide	SnS ₂	1315-01-1	182.842	gold-yel hex cry	600 dec		4.5	i H ₂ O; s alk, aqua regia
2412	Titanium	Ti	7440-32-6	47.867	gray metal; hex	1670	3287	4.506	
2413	Titanium hydride	TiH ₂	7704-98-5	49.883	gray-blk powder	≈450 dec		3.75	i H ₂ O
2414	Titanium boride	TiB ₂	12045-63-5	69.489	gray refrac solid; hex	3225		4.38	
2415	Titanium carbide	TiC	12070-08-5	59.878	cub cry	3067		4.93	i H ₂ O; s HNO ₃
2416	Titanium nitride	TiN	25583-20-4	61.874	yel-brn cub cry	2950		5.21	i H ₂ O; s aqua regia
2417	Titanium phosphide	TiP	12037-65-9	78.841	gray hex cry	1990		4.08	
2418	Titanium silicide	TiSi ₂	12039-83-7	104.038	blk orth cry	1500		4.0	i H ₂ O, acid, alk; s HF
2419	Titanium(II) bromide	TiBr ₂	13783-04-5	207.675	blk powder			4.0	reac H ₂ O
2420	Titanium(II) chloride	TiCl ₂	10049-06-6	118.772	blk hex cryc	1035	1500	3.13	reac H ₂ O; s EtOH; i chl, eth
2421	Titanium(II) iodide	TiI ₂	13783-07-8	301.676	blk hex cry			5.02	reac H ₂ O
2422	Titanium(II) oxide	TiO	12137-20-1	63.866	cub cry	1750		4.95	
2423	Titanium(II) sulfide	TiS	12039-07-5	79.933	brn hex cry	1780		3.85	s conc acid
2424	Titanium(III) bromide	TiBr ₃	13135-31-4	287.579	blue-blk hex cry				s H ₂ O
2425	Titanium(III) chloride	TiCl ₃	7705-07-9	154.225	red-viol hex cry; hyg	425 dec	960	2.64	reac H ₂ O
2426	Titanium(III) fluoride	TiF ₃	13470-08-1	104.862	viol hex cry	1200	1400	2.98	i H ₂ O, dil acid, alk
2427	Titanium(III) oxide	Ti ₂ O ₃	1344-54-3	143.732	viol hex cry	1842		4.486	s hot HF
2428	Titanium(III) sulfate	Ti ₂ (SO ₄) ₃	10343-61-0	383.925	grn cry				i H ₂ O, EtOH; s dil HCl
2429	Titanium(III) sulfide	Ti ₂ S ₃	12039-16-6	191.932	blk hex cry			3.56	
2430	Titanium(III,IV) oxide	Ti ₃ O ₅	12065-65-5	223.598	blk monocl cry	1777		4.24	
2431	Titanium(IV) bromide	TiBr ₄	7789-68-6	367.483	yel-oran cub cry; hyg	39	230	3.37	reac H ₂ O
2432	Titanium(IV) chloride	TiCl ₄	7550-45-0	189.678	col or yel liq	-24.12	136.45	1.73	reac H ₂ O; s EtOH
2433	Titanium(IV) fluoride	TiF ₄	7783-63-3	123.861	wh hyg powder	284	subl	2.798	reac H ₂ O; s EtOH, py
2434	Titanium(IV) iodide	TiI ₄	7720-83-4	555.485	red hyg powder	150	377	4.3	reac H ₂ O
2435	Titanium(IV) oxide	TiO ₂	13463-67-7	79.866	wh tetr cry	1843		4.23	i H ₂ O, dil acid; s conc acid
2436	Titanium(IV) oxysulfate monohydrate	TiOSO ₄ · H ₂ O	13825-74-6*	177.945	col orth cry			2.71	reac H ₂ O
2437	Titanium(IV) sulfate	Ti(SO ₄) ₂	13693-11-3	239.994	wh-yel hyg cry	150 dec			s H ₂ O
2438	Titanium(IV) sulfide	TiS ₂	12039-13-3	111.999	yel-brn hex cry; hyg			3.37	s H ₂ SO ₄
2439	Tungsten	W	7440-33-7	183.84	gray-wh metal; cub	3414	5555	19.3	
2440	Tungstic acid	H ₂ WO ₄	7783-03-1	249.85	yel amorp powder	100 dec		5.5	i H ₂ O, acid; s alk
2441	Tungsten boride	W ₂ B	12007-10-2	378.49	refrac blk powder	2670		16.0	i H ₂ O
2442	Tungsten boride	WB	12007-09-9	194.65	blk refrac powder	2665		15.2	i H ₂ O
2443	Tungsten boride	W ₂ B ₅	12007-98-6	421.74	refrac solid	2365		11.0	i H ₂ O
2444	Tungsten carbide	W ₂ C	12070-13-2	379.69	refrac hex cry	≈2800		14.8	i H ₂ O
2445	Tungsten carbide	WC	12070-12-1	195.85	gray hex cry	2785		15.6	i H ₂ O; s HNO ₃ /HF
2446	Tungsten carbonyl	W(CO) ₆	14040-11-0	351.90	wh cry	170 dec	subl	2.65	i H ₂ O; s os
2447	Tungsten nitride	WN ₂	60922-26-1	211.85	hex cry	600 dec		7.7	
2448	Tungsten nitride	W ₂ N	12033-72-6	381.69	gray cub cry	dec		17.8	
2449	Tungsten silicide	WSi ₂	12039-88-2	240.01	blue-gray tetr cry	2160		9.3	i H ₂ O
2450	Tungsten silicide	W ₅ Si ₃	12039-95-1	1003.46	blue-gray refrac solid	2320		14.4	
2451	Tungsten(II) bromide	WBr ₂	13470-10-5	343.65	yel powder	400 dec			
2452	Tungsten(II) chloride	WCl ₂	13470-12-7	254.75	yel solid	>500 dec			s H ₂ O
2453	Tungsten(II) iodide	WI ₂	13470-17-2	437.65	oran cry			6.79	

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2454	Tungsten(III) bromide	WBr ₃	15163-24-3	423.55	blk hex cry	>80 dec				i H ₂ O
2455	Tungsten(III) chloride	WCl ₃	20193-56-0	290.20	red solid	550 dec	subl			reac H ₂ O
2456	Tungsten(IV) bromide	WBr ₄	14055-81-3	503.46	blk orth cry		240 subl			reac H ₂ O
2457	Tungsten(IV) chloride	WCl ₄	13470-13-8	325.65	blk hyg powder	450 dec		4.62		reac H ₂ O
2458	Tungsten(IV) fluoride	WF ₄	13766-47-7	259.83	red-brn cry	>800 dec				
2459	Tungsten(IV) iodide	WI ₄	14055-84-6	691.46	blk powder	dec				reac H ₂ O; s EtOH; i eth chl
2460	Tungsten(IV) oxide	WO ₂	12036-22-5	215.84	blue monocl cry	≈1500 dec		10.8		i H ₂ O, os
2461	Tungsten(IV) selenide	WSe ₂	12067-46-8	341.76	gray hex cry			9.2		
2462	Tungsten(IV) sulfide	WS ₂	12138-09-9	247.97	gray hex cry	1250 dec		7.6		i H ₂ O, HCl, alk
2463	Tungsten(IV) telluride	WTe ₂	12067-76-4	439.04	gray orth cry	1020		9.43		
2464	Tungsten(V) bromide	WBr ₅	13470-11-6	583.36	brn-blk hyg solid	286	333			
2465	Tungsten(V) chloride	WCl ₅	13470-14-9	361.10	blk hyg cry	242	286			reac H ₂ O
2466	Tungsten(V) ethanolate	W(C ₂ H ₅ O) ₅	62571-53-3	409.14	pow		105(0.05 mmHg)			s EtAc
2467	Tungsten(V) fluoride	WF ₅	19357-83-6	278.83	yel solid	>80 dec				
2468	Tungsten(V) oxytribromide	WOBBr ₃	20213-56-3	439.55	dark brn tetr cry			≈5.9		
2469	Tungsten(V) oxytrichloride	WOCl ₃	14249-98-0	306.20	grn tetr cry			≈4.6		
2470	Tungsten(VI) bromide	WBr ₆	13701-86-5	663.26	blue-blk cry	309				
2471	Tungsten(VI) chloride	WCl ₆	13283-01-7	396.56	purp hex cry; hyg	275	346.75	3.52		s EtOH, os
2472	Tungsten(VI) dioxidibromide	WO ₂ Br ₂	13520-75-7	375.65	red cry		440 subl			
2473	Tungsten(VI) dioxidichloride	WO ₂ Cl ₂	13520-76-8	286.74	yel orth cry	265		4.67		i H ₂ O
2474	Tungsten(VI) dioxidiiodide	WO ₂ I ₂	14447-89-3	469.65	grn monocl cry	400 dec		6.39		
2475	Tungsten(VI) fluoride	WF ₆	7783-82-6	297.83	col gas	2.3	17.1	12.17 g/L		reac H ₂ O
2476	Tungsten(VI) oxide	WO ₃	1314-35-8	231.84	yel powder	1472		7.2		i H ₂ O; sl acid; s alk
2477	Tungsten(VI) oxytetrabromide	WOBBr ₄	13520-77-9	519.46	red tetr cry	277	327	≈5.5		reac H ₂ O
2478	Tungsten(VI) oxytetrachloride	WOCl ₄	13520-78-0	341.65	red hyg cry	211	227.55	11.92		reac H ₂ O; s bz, CS ₂
2479	Tungsten(VI) oxytetrafluoride	WOF ₄	13520-79-1	275.83	wh monocl cry	106	185.9	5.07		reac H ₂ O
2480	Tungsten(VI) sulfide	WS ₃	12125-19-8	280.04	brn powder					sl H ₂ O; s alk
2481	Uranium	U	7440-61-1	238.029	silv-wh orth cry	1135	4131	19.1		
2482	Uranium boride	UB ₂	12007-36-2	259.651	refrac solid	2430		12.7		
2483	Uranium boride	UB ₄	12007-84-0	281.273	refrac solid	2530		9.32		i H ₂ O
2484	Uranium carbide	UC	12070-09-6	250.040	gray cub cry	2790				
2485	Uranium carbide	UC ₂	12071-33-9	262.050	gray tetr cry	2350	4370	11.3		reac H ₂ O; sl EtOH
2486	Uranium carbide	U ₂ C ₃	12076-62-9	512.090	gray cub cry	≈1700 dec		12.7		
2487	Uranium nitride	UN	25658-43-9	252.036	gray cub cry	2805		14.3		i H ₂ O
2488	Uranium nitride	U ₂ N ₃	12033-83-9	518.078	cub cry	dec		11.3		
2489	Uranium(III) bromide	UBr ₃	13470-19-4	477.741	red hyg cry	727				s H ₂ O
2490	Uranium(III) chloride	UCl ₃	10025-93-1	344.387	grn hyg cry	837		5.51		vs H ₂ O; i bz, ctc
2491	Uranium(III) fluoride	UF ₃	13775-06-9	295.024	blk hex cry	dec		8.9		i H ₂ O; s acid
2492	Uranium(III) hydride	UH ₃	13598-56-6	241.053	gray-blk cub cry			11.1		
2493	Uranium(III) iodide	UI ₃	13775-18-3	618.742	blk hyg cry	766				s H ₂ O
2494	Uranium(IV) bromide	UBr ₄	13470-20-7	557.645	brn hyg cry	519				s H ₂ O, EtOH
2495	Uranium(IV) chloride	UCl ₄	10026-10-5	379.840	grn octahed cry	590	791	4.72		reac H ₂ O; s EtOH
2496	Uranium(IV) fluoride	UF ₄	10049-14-6	314.023	grn monocl cry	1036	1417	6.7	0.01 ²⁵	s conc acid, alk
2497	Uranium(IV) iodide	UI ₄	13470-22-9	745.647	blk hyg cry	506				s H ₂ O, EtOH
2498	Uranium(IV) oxide	UO ₂	1344-57-6	270.028	brn cub cry	2827		10.97		i H ₂ O, dil acid; s conc acid

2499	Uranium(IV,V) oxide	U ₄ O ₉	12037-15-9	1096.111	cub cry				11.2			
2500	Uranium(V) bromide	UBr ₅	13775-16-1	637.549	brn hyg cry					reac H ₂ O		
2501	Uranium(V) chloride	UCl ₅	13470-21-8	415.293	brn hyg cry	287				reac H ₂ O		
2502	Uranium(V) fluoride	UF ₅	13775-07-0	333.021	pale blue tetr cry; hyg	348		5.81		s H ₂ O		
2503	Uranium(V,VI) oxide	U ₃ O ₈	1344-59-8	842.082	grn-blk orth cry	1300	dec		8.38			
2504	Uranium(VI) chloride	UCl ₆	13763-23-0	450.745	green hex cry	177			3.6			
2505	Uranium(VI) fluoride	UF ₆	7783-81-5	352.019	wh monoc solid	64.0	tp	56.5	sp	5.09	reac H ₂ O; s ctc, chl	
2506	Uranium(VI) oxide	UO ₃	1344-58-7	286.027	oran-yel cry				≈7.3		i H ₂ O; s acid	
2507	Uranium(VI) oxide monohydrate	UO ₃ · H ₂ O	12326-21-5	304.043	yel orth cry	570	dec			7.05		
2508	Uranium peroxide dihydrate	UO ₄ · 2H ₂ O	19525-15-6	338.057	yel hyg cry	115	dec				i H ₂ O	
2509	Uranyl chloride	UO ₂ Cl ₂	7791-26-6	340.933	yel orth cry; hyg	577					vs H ₂ O; s EtOH, ace; i bz	
2510	Uranyl fluoride	UO ₂ F ₂	13536-84-0	308.025	yel hyg solid				64.4 ²⁰		i bz	
2511	Uranyl nitrate	UO ₂ (NO ₃) ₂	10102-06-4	394.037	yel cry				127 ²⁵		s eth	
2512	Uranyl nitrate hexahydrate	UO ₂ (NO ₃) ₂ · 6H ₂ O	13520-83-7	502.129	yel orth cry; hyg	60		118	dec	2.81	127 ²⁵	s EtOH, eth
2513	Uranyl sulfate	UO ₂ SO ₄	1314-64-3	366.091	yel cry							
2514	Uranyl sulfate trihydrate	UO ₂ SO ₄ · 3H ₂ O	20910-28-5	420.138	yel cry					3.28	152 ¹⁶	sl EtOH
2515	Vanadium	V	7440-62-2	50.942	gray-wh metal; cub	1910		3407		6.0		i H ₂ O; s acid
2516	Vanadium boride	VB	12045-27-1	61.753	refrac solid	2250						i H ₂ O
2517	Vanadium boride	VB ₂	12007-37-3	72.564	refrac solid	2450						
2518	Vanadium carbide	VC	12070-10-9	62.953	refrac blk cry; cub	2810				5.77		i H ₂ O
2519	Vanadium carbide	V ₂ C	12012-17-8	113.894	hex cry	2167						
2520	Vanadium carbonyl	V(CO) ₆	14024-00-1	219.002	blue-grn cry; flam	60	dec		subl			
2521	Vanadium nitride	VN	24646-85-3	64.949	blk powder; cub	2050				6.13		i H ₂ O; s aqua regia
2522	Vanadium silicide	VSi ₂	12039-87-1	107.113	metallic prisms					4.42		s HF
2523	Vanadium silicide	V ₃ Si	12039-76-8	180.911	cub cry	1935				5.70		
2524	Vanadium(II) bromide	VBr ₂	14890-41-6	210.750	oran-brn hex cry			800	subl	4.58		reac H ₂ O
2525	Vanadium(II) chloride	VCl ₂	10580-52-6	121.847	grn hex plates	≈1350		910	subl	3.23		reac H ₂ O; s EtOH, eth
2526	Vanadium(II) fluoride	VF ₂	13842-80-3	88.939	blue hyg cry							reac H ₂ O
2527	Vanadium(II) iodide	VI ₂	15513-84-5	304.751	red-viol hex cry			800	subl	5.44		reac H ₂ O
2528	Vanadium(II) oxide	VO	12035-98-2	66.941	grn cry	1789				5.758		s acid
2529	Vanadium(II) sulfate heptahydrate	VSO ₄ · 7H ₂ O	36907-42-3	273.112	viol cry							
2530	Vanadium(III) 2,4-pentanedioate	V(CH ₃ COCHCOCH ₃) ₃	13476-99-8	348.266	brn cry	≈185		subl		≈1.0		s MeOH, ace, bz chl
2531	Vanadium(III) bromide	VBr ₃	13470-26-3	290.654	gray-brn hyg cry					4.00		reac H ₂ O
2532	Vanadium(III) chloride	VCl ₃	7718-98-1	157.300	red-viol hex cry; hyg	500	dec			3.00		reac H ₂ O; s EtOH, eth
2533	Vanadium(III) fluoride	VF ₃	10049-12-4	107.937	yel-grn hex cry	≈1400		subl		3.363		i H ₂ O, EtOH
2534	Vanadium(III) fluoride trihydrate	VF ₃ · 3H ₂ O	10049-12-4*	161.983	grn rhomb cry	≈100	dec					sl H ₂ O
2535	Vanadium(III) iodide	VI ₃	15513-94-7	431.655	brn-blk rhomb cry; hyg					5.21		reac H ₂ O
2536	Vanadium(III) oxide	V ₂ O ₃	1314-34-7	149.881	blk powder	2067				4.87		i H ₂ O
2537	Vanadium(III) sulfate	V ₂ (SO ₄) ₃	13701-70-7	390.074	yel powder	≈400	dec					sl H ₂ O
2538	Vanadium(III) sulfide	V ₂ S ₃	1315-03-3	198.081	grn-blk powder	dec				4.7		i H ₂ O; s hot HCl
2539	Vanadium(IV) bromide	VBr ₄	13595-30-7	370.558	unstable magenta cry	-23	dec					
2540	Vanadium(IV) chloride	VCl ₄	7632-51-1	192.753	unstable red liq	-25.7		148		1.816		reac H ₂ O; s EtOH, eth
2541	Vanadium(IV) fluoride	VF ₄	10049-16-8	126.936	grn hyg powder	325	dec	subl		3.15		vs H ₂ O
2542	Vanadium(IV) oxide	VO ₂	12036-21-4	82.941	blue-blk powder	1967				4.339		i H ₂ O; s acid, alk
2543	Vanadium(V) fluoride	VF ₅	7783-72-4	145.934	col liq	19.5		48.3		2.50		reac H ₂ O
2544	Vanadium(V) oxide	V ₂ O ₅	1314-62-1	181.880	yel-brn orth cry	670		1800	dec	3.35	0.07 ²⁵	s conc acid, alk; i EtOH
2545	Vanadyl bromide	VOBr	13520-88-2	146.845	viol cry	480	dec					
2546	Vanadyl chloride	VOCl	13520-87-1	102.394	brn orth cry			127		1.72		

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2547	Vanadyl dibromide	VOBr ₂	13520-89-3	226.749	yel-brn cry	180 dec				
2548	Vanadyl dichloride	VOCl ₂	10213-09-9	137.846	grn hyg cry	380 dec		2.88		reac H ₂ O; s EtOH
2549	Vanadyl difluoride	VOF ₂	13814-83-0	104.938	yel cry					
2550	Vanadyl selenite hydrate	VOSeO ₃ · H ₂ O	133578-89-9	211.92	grn tricl plates			3.506		
2551	Vanadyl sulfate dihydrate	VOSO ₄ · 2H ₂ O	27774-13-6	199.036	blue cry powder					s H ₂ O
2552	Vanadyl tribromide	VOBr ₃	13520-90-6	306.653	deep red liq		180 dec			reac H ₂ O
2553	Vanadyl trichloride	VOCl ₃	7727-18-6	173.299	fuming red liq	-79	127	1.829		reac H ₂ O; s MeOH, eth, ace
2554	Vanadyl trifluoride	VOF ₃	13709-31-4	123.936	yel hyg powder	300	480	2.459		reac H ₂ O
2555	Water	H ₂ O	7732-18-5	18.015	col liq	0.00	100.0	0.9970		s EtOH, MeOH, ace
2556	Xenon	Xe	7440-63-3	131.29	col gas	-111.745 tp (81.6 kPa)	-108.09	5.366 g/L		sl H ₂ O
2557	Xenon trioxide	XeO ₃	13776-58-4	179.29	col orth cry	exp ≈25		4.55		s H ₂ O
2558	Xenon tetroxide	XeO ₄	12340-14-6	195.29	yel solid; exp	-35.9	≈0 dec			
2559	Xenon difluoride	XeF ₂	13709-36-9	169.29	col tetr cry	129.03 tp	114.35 sp	4.32		sl H ₂ O
2560	Xenon tetrafluoride	XeF ₄	13709-61-0	207.28	col monocl cry	117.10 tp	115.75 sp	4.04		reac H ₂ O
2561	Xenon hexafluoride	XeF ₆	13693-09-9	245.28	col monocl cry	49.5	75.6	3.56		reac H ₂ O
2562	Xenon dioxydifluoride	XeO ₂ F ₂	13875-06-4	201.29	col orth cry	30.8 exp		4.10		
2563	Xenon oxytetrafluoride	XeOF ₄	13774-85-1	223.28	col liq	-46.2		3.17 ^o		reac H ₂ O
2564	Xenon fluoride hexafluororuthenate	XeFRuF ₆	22527-13-5	365.35	yel-grn monocl cry	110		3.78		
2565	Xenon fluoride undecafluoroantimonate	XeFSb ₂ F ₁₁	15364-10-0	602.79	yel monocl cry	63		3.69		
2566	Xenon fluoride hexafluoroarsenate	Xe ₂ F ₃ AsF ₆	50432-32-1	508.49	yel-grn monocl cry	99		3.62		reac H ₂ O
2567	Xenon fluoride hexafluoroantimonate	XeF ₃ SbF ₆	39797-63-2	424.04	yel-grn monocl cry	≈110		3.92		
2568	Xenon trifluoride undecafluoroantimonate	XeF ₃ Sb ₂ F ₁₁	35718-37-7	640.79	yel-grn tricl cry	82		3.98		
2569	Xenon pentafluoride hexafluoroarsenate	XeF ₅ AsF ₆	20328-94-3	415.19	wh monocl cry	130.5		3.51		
2570	Xenon pentafluoride hexafluororuthenate	XeF ₅ RuF ₆	39796-98-0	441.34	grn orth cry	152		3.79		
2571	Ytterbium	Yb	7440-64-4	173.04	silv metal; cub	819	1196	6.90		s dil acid
2572	Ytterbium silicide	YbSi ₂	12039-89-3	229.21	hex cry			7.54		
2573	Ytterbium(II) bromide	YbBr ₂	25502-05-0	332.85	yel cry	673				reac H ₂ O
2574	Ytterbium(II) chloride	YbCl ₂	13874-77-6	243.95	grn cry	721		5.27		reac H ₂ O
2575	Ytterbium(II) iodide	YbI ₂	19357-86-9	426.85	blk cry	772				reac H ₂ O
2576	Ytterbium(III) chloride	YbCl ₃	10361-91-8	279.40	wh hyg powder	875				s H ₂ O
2577	Ytterbium(III) chloride hexahydrate	YbCl ₃ · 6H ₂ O	19423-87-1	387.49	grn hyg cry	150 dec		2.57		vs H ₂ O
2578	Ytterbium(III) fluoride	YbF ₃	13760-80-0	230.04	wh cry	1157		8.2		i H ₂ O
2579	Ytterbium(III) nitrate	Yb(NO ₃) ₃	13768-67-7	359.06	col hyg solid				239 ²⁵	s EtOH
2580	Ytterbium(III) oxide	Yb ₂ O ₃	1314-37-0	394.08	col cub cry	2355	4070	9.2		s dil acid
2581	Ytterbium(III) sulfate octahydrate	Yb ₂ (SO ₄) ₃ · 8H ₂ O	10034-98-7	778.39	col cry			3.3	38.4 ²⁰	
2582	Yttrium	Y	7440-65-5	88.906	silv metal; hex	1522	3345	4.47		reac H ₂ O; s dil acid
2583	Yttrium aluminum oxide	Y ₃ Al ₅ O ₁₂	12005-21-9	593.619	grn cub cry			≈4.5		
2584	Yttrium antimonide	YSb	12186-97-9	210.666	cub cry	2310		5.97		
2585	Yttrium arsenide	YAs	12255-48-0	163.828	cub cry			5.59		
2586	Yttrium boride	YB ₆	12008-32-1	153.772	refrac solid	2600		3.72		
2587	Yttrium bromide	YBr ₃	13469-98-2	328.618	col hyg cry	904			83.3 ³⁰	
2588	Yttrium carbide	YC ₂	12071-35-1	112.927	refrac solid	≈2400		4.13		
2589	Yttrium carbonate trihydrate	Y ₂ (CO ₃) ₃ · 3H ₂ O	5970-44-5	411.885	red-brn powder					i H ₂ O; s dil acid
2590	Yttrium chloride	YCl ₃	10361-92-9	195.264	wh monocl cry; hyg	721		2.61	75.1 ²⁰	
2591	Yttrium fluoride	YF ₃	13709-49-4	145.901	wh hyg powder	≈1150		4.0		i H ₂ O

2592	Yttrium nitrate	$Y(NO_3)_3$	10361-93-0	274.921	wh hyg solid			149 ²⁵	s EtOH
2593	Yttrium nitrate tetrahydrate	$Y(NO_3)_3 \cdot 4H_2O$	13773-69-8	346.982	red-wh prisms		2.68	149 ²⁵	
2594	Yttrium nitrate hexahydrate	$Y(NO_3)_3 \cdot 6H_2O$	13494-98-9	383.012	hyg cry			149 ²⁵	
2595	Yttrium oxide	Y_2O_3	1314-36-9	225.810	wh cry; cub	2438		5.03	s dil acid
2596	Yttrium phosphide	YP	12294-01-8	119.880	cub cry			≈4.4	
2597	Yttrium sulfate octahydrate	$Y_2(SO_4)_3 \cdot 8H_2O$	7446-33-5	610.125	red monocl cry			2.6	7.47 ¹⁶
2598	Yttrium sulfide	Y_2S_3	12039-19-9	274.010	yel cub cry	1925		3.87	
2599	Zinc	Zn	7440-66-6	65.39	blue-wh metal; hex	419.53	907	7.14	s acid, alk
2600	Zinc acetate dihydrate	$Zn(C_2H_3O_2)_2 \cdot 2H_2O$	5970-45-6	219.51	wh powder	237 dec		1.735	30.0 ²⁰
2601	Zinc ammonium sulfate	$Zn(NH_4)_2(SO_4)_2$	7783-24-6	293.59	wh cry				9.2 ²⁰
2602	Zinc antimonide	ZnSb	12039-35-9	187.15	silv-wh orth cry	565		6.33	reac H ₂ O
2603	Zinc arsenate	$Zn_3(AsO_4)_2$	13464-44-3	474.01	wh powder				0.000078 ²⁰
2604	Zinc arsenate octahydrate	$Zn_3(AsO_4)_2 \cdot 8H_2O$	13464-45-4	618.13	wh monocl cry			3.33	0.000078 ²⁰
2605	Zinc arsenide	Zn_3As_2	12006-40-5	346.01	pow	1015		5.528	
2606	Zinc arsenite	$Zn(AsO_2)_2$	10326-24-6	279.23	col powder				i H ₂ O; s acid
2607	Zinc borate	$3ZnO \cdot 2B_2O_3$	27043-84-1	383.41	wh amorp powder			3.64	sl H ₂ O; s dil acid
2608	Zinc borate hemiheptahydrate	$2ZnO \cdot 3B_2O_3 \cdot 3.5H_2O$	12513-27-8	434.69	wh cry	980		4.22	i H ₂ O
2609	Zinc borate pentahydrate	$2ZnO \cdot 3B_2O_3 \cdot 5H_2O$	12536-65-1	461.72	wh pow			3.64	0.007 ²⁵
2610	Zinc bromate hexahydrate	$Zn(BrO_3)_2 \cdot 6H_2O$	13517-27-6	429.29	wh hyg solid	100		2.57	vs H ₂ O
2611	Zinc bromide	ZnBr ₂	7699-45-8	225.20	wh hex cry; hyg	394	697	4.5	488 ²⁵
2612	Zinc caprylate	$Zn(C_8H_{15}O_2)_2$	557-09-5	351.80	wh hyg cry	136			sl H ₂ O
2613	Zinc carbonate	ZnCO ₃	3486-35-9	125.40	wh rhomb cry	140 dec		4.4	0.000091 ²⁰
2614	Zinc carbonate hydroxide	$3Zn(OH)_2 \cdot 2ZnCO_3$	12070-69-8	549.01	wh pow				
2615	Zinc chlorate	$Zn(ClO_3)_2$	10361-95-2	232.29	yel hyg cry	60 dec		2.15	200 ²⁰
2616	Zinc chloride	ZnCl ₂	7646-85-7	136.29	wh hyg cry	290	732	2.907	408 ²⁵
2617	Zinc chromate	ZnCrO ₄	13530-65-9	181.38	yel prisms	316		3.40	3.08
2618	Zinc chromite	ZnCr ₂ O ₄	12018-19-8	233.38	grn cub cry			5.29	s acid; i ace
2619	Zinc citrate dihydrate	$Zn_3(C_6H_5O_7)_2 \cdot 2H_2O$	546-46-3	610.40	col powder				sl H ₂ O; s dil acid, alk
2620	Zinc cyanide	Zn(CN) ₂	557-21-1	117.42	wh powder			1.852	0.00047 ²⁰
2621	Zinc dithionate	ZnS ₂ O ₄	7779-86-4	193.52	wh amorp solid	200 dec			40 ²⁰
2622	Zinc fluoride	ZnF ₂	7783-49-5	103.39	wh tetr needles; hyg	872	1500	4.9	1.55 ²⁵
2623	Zinc fluoride tetrahydrate	$ZnF_2 \cdot 4H_2O$	13986-18-0	175.45	wh orth cry			2.30	1.55 ²⁵
2624	Zinc fluoroborate hexahydrate	$Zn(BF_4)_2 \cdot 6H_2O$	27860-83-9	347.09	hex cry			2.12	vs H ₂ O; s EtOH
2625	Zinc formate dihydrate	$Zn(CHO_2)_2 \cdot 2H_2O$	5970-62-7	191.46	wh cry			2.207	5.2 ²⁰
2626	Zinc hexafluorosilicate hexahydrate	$ZnSiF_6 \cdot 6H_2O$	16871-71-9	315.56	wh cry				s H ₂ O
2627	Zinc hydroxide	Zn(OH) ₂	20427-58-1	99.41	col orth cry	125 dec		3.05	0.000042 ²⁰
2628	Zinc iodate	$Zn(IO_3)_2$	7790-37-6	415.20	wh cry powder				0.64 ²⁵
2629	Zinc iodide	ZnI ₂	10139-47-6	319.20	wh hyg cry	446	625	4.74	438 ²⁵
2630	Zinc laurate	$Zn(C_{12}H_{23}O_2)_2$	2452-01-9	464.01	wh powder	128			sl H ₂ O
2631	Zinc molybdate	ZnMoO ₄	13767-32-3	225.33	wh tetr cry	>700		4.3	i H ₂ O
2632	Zinc nitrate	$Zn(NO_3)_2$	7779-88-6	189.40	wh powder				120 ²⁵
2633	Zinc nitrate hexahydrate	$Zn(NO_3)_2 \cdot 6H_2O$	10196-18-6	297.49	col orth cry	36 dec		2.067	120 ²⁵
2634	Zinc nitride	Zn ₃ N ₂	1313-49-1	224.18	blue-gray cub cry	700 dec		6.22	vs EtOH
2635	Zinc nitrite	$Zn(NO_2)_2$	10102-02-0	157.40	hyg solid				i H ₂ O
2636	Zinc oleate	$Zn(C_{18}H_{33}O_2)_2$	557-07-3	628.30	wh powder	70 dec			reac H ₂ O
2637	Zinc oxalate	ZnC ₂ O ₄	547-68-2	153.41	wh pwd				0.0026 ²⁵
2638	Zinc oxalate dihydrate	$ZnC_2O_4 \cdot 2H_2O$	4255-07-6	189.44	wh powder	100 dec		2.56	0.0026 ²⁵
2639	Zinc oxide	ZnO	1314-13-2	81.39	wh powder; hex	1974		5.6	i H ₂ O; s dil acid

No.	Name	Formula	CAS Reg No.	Mol. Weight	Physical Form	mp/°C	bp/°C	Density /g cm ⁻³	Solubility g/100 g H ₂ O	Qualitative Solubility
2640	Zinc 2,4-pentanedioate	Zn(CH ₃ COCHCOCH ₃) ₂	14024-63-6	263.61	cry	137 dec				sl H ₂ O; s EtOH
2641	Zinc perchlorate hexahydrate	Zn(ClO ₄) ₂ · 6H ₂ O	10025-64-6	372.38	wh cub cry; hyg	106 dec		2.2	121.3 ²⁵	s EtOH
2642	Zinc permanganate hexahydrate	Zn(MnO ₄) ₂ · 6H ₂ O	23414-72-4	411.35	blk orth cry; hyg			2.45		s H ₂ O; reac EtOH
2643	Zinc peroxide	ZnO ₂	1314-22-3	97.39	yel-wh powder	>150 dec	212 exp	1.57		i H ₂ O; reac acid, EtOH, ace
2644	Zinc phosphate	Zn ₃ (PO ₄) ₂	7779-90-0	386.11	wh monocl cry	900		4.0		i H ₂ O
2645	Zinc phosphate tetrahydrate	Zn ₃ (PO ₄) ₂ · 4H ₂ O	7543-51-3	458.17	col orth cry			3.04		i H ₂ O, EtOH; s dil acid, alk
2646	Zinc phosphide	Zn ₃ P ₂	1314-84-7	258.12	gray tetr cry	1160		4.55		i H ₂ O, EtOH; reac acid; s bz
2647	Zinc pyrophosphate	Zn ₂ P ₂ O ₇	7446-26-6	304.72	wh cry powder			3.75		i H ₂ O; s dil acid
2648	Zinc selenate pentahydrate	ZnSeO ₄ · 5H ₂ O	13597-54-1	298.42	tricl cry	50 dec		2.59	63.4 ²⁵	
2649	Zinc selenide	ZnSe	1315-09-9	144.35	yel-red cub cry	>1100	subl	5.65		i H ₂ O; s dil acid
2650	Zinc orthosilicate	Zn ₂ SiO ₄	13597-65-4	222.86	wh hex cry	1509		4.1		i H ₂ O, dil acid
2651	Zinc selenite	ZnSeO ₃	13597-46-1	192.35	wh pow					
2652	Zinc stearate	Zn(C ₁₈ H ₃₅ O ₂) ₂	557-05-1	632.33	wh powder	130		1.095		i H ₂ O, EtOH, eth; s bz
2653	Zinc sulfate	ZnSO ₄	7733-02-0	161.45	col orth cry	680 dec		3.8	57.7 ²⁵	
2654	Zinc sulfate monohydrate	ZnSO ₄ · H ₂ O	7446-19-7	179.47	wh monocl cry	238 dec		3.20	57.7 ²⁵	i EtOH
2655	Zinc sulfate heptahydrate	ZnSO ₄ · 7H ₂ O	7446-20-0	287.56	col orth cry	100 dec		1.97	57.7 ²⁵	i EtOH
2656	Zinc sulfide (sphalerite)	ZnS	1314-98-3	97.46	gray-wh cub cry	1700		4.04		i H ₂ O, EtOH; s dil acid
2657	Zinc sulfide (wurtzite)	ZnS	1314-98-3	97.46	wh hex cry	1700		4.09		i H ₂ O; s dil acid
2658	Zinc sulfite dihydrate	ZnSO ₃ · 2H ₂ O	7488-52-0	181.49	wh powder	200 dec			0.224 ²⁵	i EtOH
2659	Zinc telluride	ZnTe	1315-11-3	192.99	red cub cry	1239		5.9		i H ₂ O
2660	Zinc thiocyanate	Zn(SCN) ₂	557-42-6	181.56	wh hyg cry					sl H ₂ O; s EtOH
2661	Zirconium	Zr	7440-67-7	91.224	gray-wh metal; hex	1854	4409	6.52		s hot conc acid
2662	Zirconium boride	ZrB ₂	12045-64-6	112.846	gray refrac solid; hex	3245		6.17		
2663	Zirconium carbide	ZrC	12020-14-3	103.235	gray refrac solid; cub	3532		6.73		s HF
2664	Zirconium(II) chloride	ZrCl ₂	13762-26-0	162.129	blk cry	772 dec		3.16		reac H ₂ O
2665	Zirconium(II) hydride	ZrH ₂	7704-99-6	93.240	gray tetr cry	800 dec		5.6		i H ₂ O
2666	Zirconium(IV) bromide	ZrBr ₄	13777-25-8	410.840	wh cub cry	450 tp	360 sp	3.98		
2667	Zirconium(IV) chloride	ZrCl ₄	10026-11-6	233.035	wh monocl cry; hyg	437 tp	331 sp	2.80		reac H ₂ O; s EtOH, eth
2668	Zirconium(IV) fluoride	ZrF ₄	7783-64-4	167.218	wh monocl cry	932 tp	912 sp	4.43	1.5 ²⁵	
2669	Zirconium(IV) hydroxide	Zr(OH) ₄	14475-63-9	159.254	wh amorp powder	dec		3.25		i H ₂ O; s acid
2670	Zirconium(IV) iodide	ZrI ₄	13986-26-0	598.842	oran cub cry; hyg	499 tp	431 sp	4.85		vs H ₂ O
2671	Zirconium(IV) nitrate pentahydrate	Zr(NO ₃) ₄ · 5H ₂ O	13746-89-9	429.320	wh hyg cry	100 dec				vs H ₂ O; s EtOH
2672	Zirconium(IV) oxide	ZrO ₂	1314-23-4	123.223	wh amorp powder	2709		5.68		i H ₂ O; sl acid
2673	Zirconium(IV) orthosilicate	ZrSiO ₄	10101-52-7	183.308	wh tetr cry	1540 dec		4.6		i H ₂ O, acid
2674	Zirconium(IV) sulfate	Zr(SO ₄) ₂	14644-61-2	283.351	wh hyg cry	410 dec		3.22		s H ₂ O; sl EtOH
2675	Zirconium(IV) sulfate tetrahydrate	Zr(SO ₄) ₂ · 4H ₂ O	7446-31-3	355.413	wh tetr cry	100 dec		2.80		vs H ₂ O
2676	Zirconium(IV) sulfide	ZrS ₂	12039-15-5	155.356	red-brn hex cry	1480		3.82		i H ₂ O
2677	Zirconium nitride	ZrN	25658-42-8	105.231	yel cub cry	2960		7.09		s conc HF; sl dil acid
2678	Zirconium phosphide	ZrP ₂	12037-80-8	153.172	orth cry			≈5.1		
2679	Zirconium silicide	ZrSi ₂	12039-90-6	147.395	gray powder	1620		4.88		i H ₂ O, aqua regia; s HF
2680	Zirconyl chloride	ZrOCl ₂	7699-43-6	178.128	wh solid	250 dec				s H ₂ O, EtOH
2681	Zirconyl chloride octahydrate	ZrOCl ₂ · 8H ₂ O	13520-92-8	322.251	tetr cry	400 dec		1.91		vs H ₂ O, EtOH