



Element Data

Atomic #	Atomic Symbol	Group #	Old Group #	Period	English element name
1	H	1	I A	1	Hydrogen
2	He	18	VIII A	1	Helium
3	Li	1	I A	2	Lithium
4	Be	2	II A	2	Beryllium
5	B	13	III A	2	Boron
6	C	14	IV A	2	Carbon
7	N	15	V A	2	Nitrogen
8	O	16	VI A	2	Oxygen
9	F	17	VII A	2	Fluorine
10	Ne	18	VIII A	2	Neon
11	Na	1	I A	3	Sodium
12	Mg	2	II A	3	Magnesium
13	Al	13	III A	3	Aluminum
14	Si	14	IV A	3	Silicon
15	P	15	V A	3	Phosphorus
16	S	16	VI A	3	Sulfur
17	Cl	17	VII A	3	Chlorine
18	Ar	18	VIII A	3	Argon
19	K	1	I A	4	Potassium
20	Ca	2	II A	4	Calcium
21	Sc	3	III B	4	Scandium
22	Ti	4	IV B	4	Titanium
23	V	5	V B	4	Vanadium
24	Cr	6	VI B	4	Chromium
25	Mn	7	VII B	4	Manganese
26	Fe	8	VIII B	4	Iron
27	Co	9	VIII B	4	Cobalt
28	Ni	10	VIII B	4	Nickel
29	Cu	11	I B	4	Copper
30	Zn	12	II B	4	Zinc
31	Ga	13	III A	4	Gallium
32	Ge	14	IV A	4	Germanium
33	As	15	V A	4	Arsenic
34	Se	16	VI A	4	Selenium
35	Br	17	VII A	4	Bromine
36	Kr	18	VIII A	4	Krypton
37	Rb	1	I A	5	Rubidium
38	Sr	2	II A	5	Strontium
39	Y	3	III B	5	Yttrium

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Element Data

Atomic #	Atomic Symbol	Group #	Old Group #	Period	English element name
40	Zr	4	IV B	5	Zirconium
41	Nb	5	VI B	5	Niobium
42	Mo	6	VI B	5	Molybdenum
43	Tc	7	VII B	5	Technetium
44	Ru	8	VIII B	5	Ruthenium
45	Rh	9	VIII B	5	Rhodium
46	Pd	10	VIII B	5	Palladium
47	Ag	11	I B	5	Silver
48	Cd	12	II B	5	Cadmium
49	In	13	III A	5	Indium
50	Sn	14	IV A	5	Tin
51	Sb	15	V A	5	Antimony
52	Te	16	VI A	5	Tellurium
53	I	17	VII A	5	Iodine
54	Xe	18	VIII A	5	Xenon
55	Cs	1	I A	6	Cesium
56	Ba	2	II A	6	Barium
57	La	lanthanides	III B	6	Lanthanum
58	Ce	lanthanides	lanthanides	6	Cerium
59	Pr	lanthanides	lanthanides	6	Praseodymium
60	Nd	lanthanides	lanthanides	6	Neodymium
61	Pm	lanthanides	lanthanides	6	Promethium
62	Sm	lanthanides	lanthanides	6	Samarium
63	Eu	lanthanides	lanthanides	6	Europium
64	Gd	lanthanides	lanthanides	6	Gadolinium
65	Tb	lanthanides	lanthanides	6	Terbium
66	Dy	lanthanides	lanthanides	6	Dysprosium
67	Ho	lanthanides	lanthanides	6	Holmium
68	Er	lanthanides	lanthanides	6	Erbium
69	Tm	lanthanides	lanthanides	6	Thulium
70	Yb	lanthanides	lanthanides	6	Ytterbium
71	Lu	3	lanthanides	6	Lutetium
72	Hf	4	IV B	6	Hafnium
73	Ta	5	V B	6	Tantalum
74	W	6	VI B	6	Tungsten
75	Re	7	VII B	6	Rhenium
76	Os	8	VIII B	6	Osmium
77	Ir	9	VIII B	6	Iridium
78	Pt	10	VIII B	6	Platinum

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Element Data

Atomic #	Atomic Symbol	Group #	Old Group #	Period	English element name
79	Au	11	I B	6	Gold
80	Hg	12	II B	6	Mercury
81	Tl	13	III A	6	Thallium
82	Pb	14	IV A	6	Lead
83	Bi	15	V A	6	Bismuth
84	Po	16	VI A	6	Polonium
85	At	17	VII A	6	Astatine
86	Rn	18	VIII A	6	Radon
87	Fr	1	I A	7	Francium
88	Ra	2	II A	7	Radium
89	Ac	actinides	III B	7	Actinium
90	Th	actinides	actinides	7	Thorium
91	Pa	actinides	actinides	7	Protactinium
92	U	actinides	actinides	7	Uranium
93	Np	actinides	actinides	7	Neptunium
94	Pu	actinides	actinides	7	Plutonium
95	Am	actinides	actinides	7	Americium
96	Cm	actinides	actinides	7	Curium
97	Bk	actinides	actinides	7	Berkelium
98	Cf	actinides	actinides	7	Californium
99	Es	actinides	actinides	7	Einsteinium
100	Fm	actinides	actinides	7	Fermium
101	Md	actinides	actinides	7	Mendelevium
102	No	actinides	actinides	7	Nobelium
103	Lr	3	actinides	7	Lawrencium
104	Rf	4	IV B	7	Rutherfordium
105	Db	5	V B	7	Dubnium
106	Sg	6	VI B	7	Seaborgium
107	Bh	7	VII B	7	Bohrium
108	Hs	8	VIII B	7	Hassium
109	Mt	9	VIII B	7	Meitnerium
110	Ds	10	VIII B	7	Darmstadtium
111	Rg	11	I B	7	Roentgentium
112	Cn	12	II B	7	Copernicium
113	Nh	13	III A	7	Nihonium
114	Fl	14	IV A	7	Flerovium
115	Mc	15	V A	7	Moscovium
116	Lv	16	VI A	7	Livermorium
117	Ts	17	VII A	7	Tennesine

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Element Data

Atomic #	Atomic Symbol	Group #	Old Group #	Period	English element name
118	Og	18	VIII A	7	Oganesson

Element Data

Atomic #	Atomic Symbol	German element name	French element name	Spanish element name
1	H	Wasserstoff	hydrogène	hidrógeno
2	He	Helium	hélium	helio
3	Li	Lithium	lithium	litio
4	Be	Beryllium	béryllium	berilio
5	B	Bor	bore	boro
6	C	Kohlenstoff	carbone	carbono
7	N	Stickstoff	azote	nitrógeno
8	O	Sauerstoff	oxygène	oxígeno
9	F	Fluor	fluor	flúor
10	Ne	Neon	néon	neón
11	Na	Natrium	sodium	sodio
12	Mg	Magnesium	magnésium	magnesio
13	Al	Aluminium	aluminium	aluminio
14	Si	Silizium	silicium	silicio
15	P	Phosphor	phosphore	fósforo
16	S	Schwefel	soufre	azufre
17	Cl	Chlor	chlore	cloro
18	Ar	Argon	argon	argón
19	K	Kalium	potassium	potasio
20	Ca	Kalzium	calcium	calcio
21	Sc	Skandium	scandium	escandio
22	Ti	Titan	titane	titanio
23	V	Vanadium	vanadium	vanadio
24	Cr	Chrom	chrome	cromo
25	Mn	Mangan	manganèse	manganeso
26	Fe	Eisen	fer	hierro
27	Co	Kobalt	cobalt	cobalto
28	Ni	Nickel	nickel	níquel
29	Cu	Kupfer	cuivre	cobre
30	Zn	Zink	zinc	zinc
31	Ga	Gallium	gallium	galio
32	Ge	Germanium	germanium	germanio
33	As	Arsen	arsenic	arsénico
34	Se	Selen	sélénium	selenio
35	Br	Brom	brome	bromo
36	Kr	Krypton	krypton	criptón
37	Rb	Rubidium	rubidium	rubidio
38	Sr	Strontium	strontium	estroncio
39	Y	Yttrium	yttrium	itrio

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Element Data

Atomic #	Atomic Symbol	German element name	French element name	Spanish element name
40	Zr	Zirkonium	zirconium	circonio
41	Nb	Niob	niobium	niobio
42	Mo	Molybdän	molybdène	molibdeno
43	Tc	Technetium	technétium	tecnecio
44	Ru	Ruthenium	ruthénium	rutenio
45	Rh	Rhodium	rhodium	rodio
46	Pd	Palladium	palladium	paladio
47	Ag	Silber	argent	plata
48	Cd	Kadmium	cadmium	cadmio
49	In	Indium	indium	indio
50	Sn	Zinn	Étain	estaño
51	Sb	Antimon	antimoine	antimonio
52	Te	Tellur	tellure	teluro
53	I	Iod (Jod)	iode	yodo
54	Xe	Xenon	xénon	xenón
55	Cs	Zäsium	césium	cesio
56	Ba	Barium	baryum	bario
57	La	Lanthan	lanthane	lantano
58	Ce	Zer	cérium	cerio
59	Pr	Praseodym	praséodyme	prosedimio
60	Nd	Neodym	néodyme	neodimio
61	Pm	Promethium	prométhium	promecio
62	Sm	Samarium	samarium	samario
63	Eu	Europium	europium	europio
64	Gd	Gadolinium	gadolinium	gadolineo
65	Tb	Terbium	terbium	terbio
66	Dy	Dysprosium	dysprosium	dispro시오
67	Ho	Holmium	holmium	holmio
68	Er	Erbium	erbium	erbio
69	Tm	Thulium	thulium	tulio
70	Yb	Ytterbium	ytterbium	iterbio
71	Lu	Lutetium	lutécium	lutezio
72	Hf	Hafnium	hafnium	hafnio
73	Ta	Tantal	tantale	tántalo
74	W	Wolfram	tungstène	wolframio or tungsteno
75	Re	Rhenium	rhénium	renio
76	Os	Osmium	osmium	osmio
77	Ir	Iridium	iridium	iridio
78	Pt	Platin	platine	platino

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Element Data

Atomic #	Atomic Symbol	German element name	French element name	Spanish element name
79	Au	Gold	or	oro
80	Hg	Quecksilber	mercure	mercurio
81	Tl	Thallium	thallium	talio
82	Pb	Blei	plomb	plomo
83	Bi	Wismut	bismuth	bismuto
84	Po	Polonium	polonium	polonio
85	At	Astat	astate	astato
86	Rn	Radon	radon	radón
87	Fr	Franzium	francium	francio
88	Ra	Radium	radium	radio
89	Ac	Aktinium	actinium	actinio
90	Th	Thorium	thorium	torio
91	Pa	Protaktinium	protactinium	protactinio
92	U	Uran	uranium	uranio
93	Np	Neptunium	neptunium	neptunio
94	Pu	Plutonium	plutonium	plutonio
95	Am	Amerizium	américium	americio
96	Cm	Kurium	curium	curio
97	Bk	Berkelium	berkélium	berkelio
98	Cf	Kalifornium	californium	californio
99	Es	Einsteinium	einsteinium	einstenio
100	Fm	Fermium	fermium	fermio
101	Md	Mendelevium	mendélévium	mendelevio
102	No	Nobelium	nobélium	nobelio
103	Lr	Lawrencium	lawrencium	lawrencio
104	Rf	Rutherfordium	rutherfordium	ruterfordio
105	Db	Dubnium	dubnium	dubnio
106	Sg	Seaborgium	seaborgium	seaborgio
107	Bh	Bohrium	bohrium	bohrio
108	Hs	Hassium	hassium	hassio
109	Mt	Meitnerium	meitnérium	meitnerio
110	Ds	Darmstadtium	darmstadtium	darmstadtio
111	Rg	Roentgentium	roentgentium	roentgentio
112	Cn	Kopernikum	copérnicum	copernico
113	Nh	Nihonium	nihonium	nihonio
114	Fl	Flerovium	flerovium	flerovio
115	Mc	Moscovium	moscovium	moscovio
116	Lv	Livermorium	livermorium	livermorio
117	Ts	Tennessine	tennessine	tennessio

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Element Data

Atomic #	Atomic Symbol	German element name	French element name	Spanish element name
118	Og	Oganesson	oganesson	oganessio

Element Data

Atomic #	Atomic Symbol	Italian element name	atomic mass (rounded)	atomic mass (NIST 2016)	Melting Point, °C
1	H	idrogeno	1.008	1.007975	-259.1
2	He	elio	4.003	4.002602	-272.2
3	Li	litio	6.968	6.9675	180.5
4	Be	berillio	9.012	9.0121831	1278
5	B	boro	10.81	10.8135	2079
6	C	carbonio	12.01	12.0106	3367
7	N	azoto	14.01	14.006855	-209.9
8	O	ossigeno	16.00	15.9994	-218.4
9	F	fluoro	19.00	18.99840316	-219.8
10	Ne	neon	20.18	20.1797	-248
11	Na	sodio	22.99	22.98976928	97.8
12	Mg	magnesio	24.31	24.3055	649
13	Al	alluminio	26.98	26.9815385	660
14	Si	silicio	28.09	28.085	1410
15	P	fosforo	30.97	30.973762	44.1
16	S	zolfo	32.07	32.0675	112.8
17	Cl	cloro	35.45	35.4515	-101
18	Ar	argo	39.95	39.948	-189.2
19	K	potassio	39.10	39.0983	63.25
20	Ca	calcio	40.08	40.078	839
21	Sc	scandio	44.96	44.955908	1541
22	Ti	titanio	47.87	47.867	1660
23	V	vanadio	50.94	50.9415	1890
24	Cr	cromo	52.00	51.9961	1857
25	Mn	manganese	54.94	54.938044	1244
26	Fe	ferro	55.85	55.845	1535
27	Co	cobalto	58.93	58.933194	1495
28	Ni	nichelio	58.69	58.6934	1453
29	Cu	rame	63.55	63.546	1083
30	Zn	zinco	65.38	65.38	419.6
31	Ga	gallio	69.72	69.723	29.8
32	Ge	germanio	72.63	72.63	947.4
33	As	arsenico	74.92	74.921595	817
34	Se	selenio	78.97	78.971	217
35	Br	bromo	79.90	79.904	-7.2
36	Kr	kripto	83.80	83.798	-157
37	Rb	rubidio	85.47	85.4678	38.9
38	Sr	stronzio	87.62	87.62	769
39	Y	ittrio	88.91	88.90584	1523

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Element Data

Atomic #	Atomic Symbol	Italian element name	atomic mass (rounded)	atomic mass (NIST 2016)	Melting Point, °C
40	Zr	zirconio	91.22	91.224	1852
41	Nb	niobio	92.91	92.90637	2468
42	Mo	molibdeno	95.95	95.95	2617
43	Tc	tecnezio	98	98	2172
44	Ru	rutenio	101.1	101.07	2310
45	Rh	rodio	102.9	102.9055	1966
46	Pd	palladio	106.4	106.42	1554
47	Ag	argento	107.9	107.8682	962
48	Cd	cadmio	112.4	112.414	320.9
49	In	indio	114.8	114.818	156.6
50	Sn	stagno	118.7	118.71	232
51	Sb	antimonio	121.8	121.76	631
52	Te	tellurio	127.6	127.6	449.5
53	I	iodio	126.9	126.90447	113.5
54	Xe	xeno	131.3	131.293	-111.8
55	Cs	cesio	132.9	132.905452	28.4
56	Ba	bario	137.3	137.327	725
57	La	lantanio	138.9	138.90547	920
58	Ce	cerio	140.1	140.116	798
59	Pr	praseodimio	140.9	140.90766	931
60	Nd	neodimio	144.2	144.242	1016
61	Pm	promezio	145	145	1042
62	Sm	samario	150.4	150.36	1074
63	Eu	europio	152.0	151.964	822
64	Gd	gadolinio	157.3	157.25	1313
65	Tb	terbio	158.9	158.92535	1365
66	Dy	disprosio	162.5	162.5	1412
67	Ho	olmio	164.9	164.93033	1474
68	Er	erbio	167.3	167.259	1529
69	Tm	tulio	168.9	168.93422	1545
70	Yb	itterbio	173.1	173.054	819
71	Lu	lutezio	175.0	174.9668	1663
72	Hf	hafnio	178.5	178.49	2227
73	Ta	tantalio	180.9	180.94788	2996
74	W	tungsteno	183.8	183.84	3410
75	Re	renio	186.2	186.207	3180
76	Os	osmio	190.2	190.23	3045
77	Ir	iridio	192.2	192.217	2410
78	Pt	platino	195.1	195.084	1772

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Element Data

Atomic #	Atomic Symbol	Italian element name	atomic mass (rounded)	atomic mass (NIST 2016)	Melting Point, °C
79	Au	oro	197.0	196.966569	1064
80	Hg	mercurio	200.6	200.592	-38.9
81	Tl	tallio	204.4	204.3835	303
82	Pb	piombo	207.2	207.2	327.5
83	Bi	bismuto	209.0	208.9804	271
84	Po	polonio	209	209	254
85	At	astato	210	210	302
86	Rn	radon	222	222	-71
87	Fr	francio	223	223	27
88	Ra	radio	226	226	700
89	Ac	attinio	227	227	1050
90	Th	torio	232.0	232.0377	1750
91	Pa	protoattinio	231.0	231.03588	1570
92	U	uranio	238.0	238.02891	1132
93	Np	nettunio	237	237	640
94	Pu	plutonio	244	244	641
95	Am	americio	243	243	994
96	Cm	curio	247	247	1340
97	Bk	berkelio	247	247	986
98	Cf	californio	251	251	
99	Es	einstenio	252	252	
100	Fm	fermio	257	257	
101	Md	mendelevio	258	258	
102	No	nobelio	259	259	
103	Lr	laurenzio	262	262	
104	Rf	rutherfordio	267	267	
105	Db	dubnio	268	268	
106	Sg	seaborgio	271	271	
107	Bh	bohrio	272	272	
108	Hs	hassio	270	270	
109	Mt	meitnerio	276	276	
110	Ds	darmstadtio	281	281	
111	Rg	roentgentio	280	280	
112	Cn	copernico	285	285	
113	Nh	nihonio	284	284	
114	Fl	flerovio	289	289	
115	Mc	moscovio	288	288	
116	Lv	livermorio	293	293	
117	Ts	tennessio	292	292	

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Element Data

Atomic #	Atomic Symbol	Italian element name	atomic mass (rounded)	atomic mass (NIST 2016)	Melting Point, °C
118	Og	oganessio	294	294	

Element Data

Atomic #	Atomic Symbol	Boiling Point, °C	State at Room Temp.	density g/mL	electron egativity	1st ionization potential
1	H	-252.9	g	0.0000699	2.2	13.5984
2	He	-268.9	g	0.000179		24.5874
3	Li	1342	s	0.543	0.98	5.3917
4	Be	2970	s	1.85	1.57	9.3226
5	B	2550	s	2.34	2.04	8.298
6	C	4827	s	2.25	2.55	11.2603
7	N	-195.8	g	0.00125	3.04	14.5341
8	O	-183	g	0.00143	3.44	13.6181
9	F	-188.1	g	0.0017	3.98	17.4228
10	Ne	-248.7	g	0.0009		21.5645
11	Na	883	s	0.971	0.93	5.1391
12	Mg	1090	s	1.74	1.31	7.6462
13	Al	2467	s	2.7	1.61	5.9858
14	Si	2355	s	2.33	1.9	8.1517
15	P	280	s	1.82	2.19	10.4867
16	S	444.7	s	2.07	2.58	10.36
17	Cl	-34.6	g	0.00321	3.16	12.9676
18	Ar	-185.7	g	0.00178		15.7596
19	K	760	s	0.86	0.82	4.3407
20	Ca	1484	s	1.55	1	6.1132
21	Sc	2832	s	2.99	1.36	6.5614
22	Ti	3287	s	4.54	1.54	6.8282
23	V	3380	s	6.11	1.63	6.7463
24	Cr	2672	s	7.19	1.66	6.7666
25	Mn	1962	s	7.43	1.55	7.434
26	Fe	2750	s	7.86	1.83	7.9024
27	Co	2870	s	8.9	1.88	7.881
28	Ni	2730	s	8.9	1.91	7.6398
29	Cu	2567	s	8.96	1.9	7.7264
30	Zn	906	s	7.13	1.65	9.3941
31	Ga	2403	s	5.9	1.81	5.9993
32	Ge	2830	s	5.32	2.01	7.9
33	As	617	s	5.73	2.18	9.8152
34	Se	685	s	4.79	2.55	9.7524
35	Br	58.8	l	3.12	2.96	11.8138
36	Kr	-152	g	0.00374	3	13.9996
37	Rb	686	s	1.53	0.82	4.1771
38	Sr	1384	s	2.54	0.95	5.6948
39	Y	3337	s	4.47	1.22	6.217

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Element Data

Atomic #	Atomic Symbol	Boiling Point, °C	State at Room Temp.	density g/mL	electron egativity	1st ionization potential
40	Zr	4377	s	6.51	1.33	6.6339
41	Nb	4742	s	8.57	1.6	6.7589
42	Mo	4612	s	10.2	2.16	7.0924
43	Tc	4877	s	11.5	1.9	7.28
44	Ru	3900	s	12.4	2.2	7.3605
45	Rh	3727	s	12.4	2.28	7.4589
46	Pd	3140	s	12	2.2	8.3369
47	Ag	2212	s	10.5	1.93	7.5762
48	Cd	765	s	8.65	1.69	8.9937
49	In	2080	s	7.31	1.78	5.7864
50	Sn	2270	s	7.31	1.96	7.3438
51	Sb	1950	s	6.69	2.05	8.64
52	Te	989.8	s	6.24	2.1	9.0096
53	I	184	s	4.93	2.66	10.4513
54	Xe	-107.1	g	0.00589	2.6	12.1299
55	Cs	669	s	1.87	0.79	3.8939
56	Ba	1640	s	3.5	0.89	5.2117
57	La	3454	s	6.15	1.1	5.577
58	Ce	3257	s	6.66	1.12	5.5387
59	Pr	3017	s	6.77	1.13	5.464
60	Nd	3127	s	7	1.14	5.525
61	Pm	3000	s	7.26		5.55
62	Sm	1794	s	7.52	1.17	5.6437
63	Eu	1529	s	5.24		5.6704
64	Gd	3273	s	7.9	1.2	6.15
65	Tb	3230	s	8.23		5.8939
66	Dy	2567	s	8.55	1.22	5.9389
67	Ho	2700	s	8.8	1.23	6.0216
68	Er	2868	s	9.07	1.24	6.1078
69	Tm	1950	s	9.32	1.25	6.1843
70	Yb	1196	s	6.97		6.2542
71	Lu	3402	s	9.84	1.27	5.4259
72	Hf	4600	s	13.3	1.3	6.8251
73	Ta	5425	s	16.6	1.5	7.89
74	W	5660	s	19.3	2.36	7.98
75	Re	5600	s	21	1.9	7.88
76	Os	5030	s	22.6	2.2	8.7
77	Ir	4130	s	22.4	2.2	9.1
78	Pt	3827	s	21.4	2.28	9

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Element Data

Atomic #	Atomic Symbol	Boiling Point, °C	State at Room Temp.	density g/mL	electron egativity	1st ionization potential
79	Au	3080	s	19.3	2.54	9.2257
80	Hg	357	l	13.5	2	10.4375
81	Tl	1457	s	11.9	1.62	6.1083
82	Pb	1740	s	11.4	2.33	7.4167
83	Bi	1560	s	9.75	2.02	7.289
84	Po	962	s	9.32	2	8.4167
85	At	337	s		2.2	9.5
86	Rn	-61.8	g	0.00973		10.7485
87	Fr	677	s		0.7	3.94
88	Ra	1140	s	5	0.9	5.2789
89	Ac	3200	s	10.1	1.1	5.17
90	Th	4790	s	11.7	1.3	6.08
91	Pa	4000	s	15.4	1.5	5.89
92	U	3818	s	19	1.38	6.1941
93	Np	3900	s	20.2	1.36	6.2657
94	Pu	3232	s	19.8	1.28	6.06
95	Am	2607	s	13.7	1.3	5.9933
96	Cm		s	13.5	1.3	6.02
97	Bk		s	14	1.3	6.23
98	Cf				1.3	6.3
99	Es				1.3	6.42
100	Fm				1.3	6.5
101	Md				1.3	6.58
102	No				1.3	6.65
103	Lr					
104	Rf					
105	Db					
106	Sg					
107	Bh					
108	Hs					
109	Mt					
110	Ds					
111	Rg					
112	Cn					
113	Nh					
114	Fl					
115	Mc					
116	Lv					
117	Ts					

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Element Data

Atomic #	Atomic Symbol	Boiling Point, °C	State at Room Temp.	density g/mL	electron egativity	1st ionization potential
118	Og					

Element Data

Atomic #	Atomic Symbol	2nd ionization potential	3rd ionization potential (eV)	1st ionization potential (kJ/mol)
1	H			1312
2	He	54.416		2372
3	Li	76.638	122.451	520
4	Be	18.211	153.893	899
5	B	25.154	37.93	801
6	C	24.383	47.887	1086
7	N	29.601	47.448	1402
8	O	35.117	54.934	1314
9	F	34.97	62.707	1681
10	Ne	40.962	63.45	2081
11	Na	47.286	71.641	496
12	Mg	15.035	80.143	738
13	Al	18.828	28.447	578
14	Si	16.345	33.492	787
15	P	19.725	30.18	1012
16	S	23.33	34.83	1000
17	Cl	23.81	39.611	1251
18	Ar	27.629	40.74	1521
19	K	31.625	45.72	419
20	Ca	11.871	50.908	590
21	Sc	12.8	24.76	633
22	Ti	13.58	27.491	659
23	V	14.65	29.31	651
24	Cr	16.5	30.96	653
25	Mn	15.64	33.667	717
26	Fe	16.18	30.651	762
27	Co	17.06	33.5	760
28	Ni	18.168	35.17	737
29	Cu	20.292	36.83	745
30	Zn	17.964	39.722	906
31	Ga	20.51	30.71	579
32	Ge	15.934	34.22	762
33	As	18.633	28.351	947
34	Se	21.19	30.82	941
35	Br	21.8	36	1140
36	Kr	24.359	36.95	1351
37	Rb	27.28	40	403
38	Sr	11.03	43.6	549
39	Y	12.24	20.52	600

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential	3rd ionization potential (eV)	1st ionization potential (kJ/mol)
40	Zr	13.13	22.99	640
41	Nb	14.32	25.04	652
42	Mo	16.461	27.16	684
43	Tc	15.26	29.54	702
44	Ru	16.76	28.47	710
45	Rh	18.08	31.06	720
46	Pd	19.63	32.93	804
47	Ag	21.49	34.83	731
48	Cd	16.908	37.48	868
49	In	18.869	28.03	558
50	Sn	14.632	30.502	709
51	Sb	16.53	25.3	834
52	Te	18.6	27.96	869
53	I	19.131	33	1008
54	Xe	21.21	32.1	1170
55	Cs	25.1		376
56	Ba	10.004		503
57	La	11.059	19.174	538
58	Ce	10.851	20.2	534
59	Pr	10.551	21.62	527
60	Nd	10.727	22.076	533
61	Pm	10.903	22.283	535
62	Sm	11.069	23.423	545
63	Eu	11.245	24.926	547
64	Gd	12.095	20.635	593
65	Tb	11.525	21.91	569
66	Dy	11.67	22.802	573
67	Ho	11.805	22.843	581
68	Er	11.929	22.739	589
69	Tm	12.054	26.367	597
70	Yb	12.188	25.03	603
71	Lu	13.888	20.957	524
72	Hf	14.925	23.32	659
73	Ta			761
74	W			770
75	Re			760
76	Os			839
77	Ir			878
78	Pt	18.563		868

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential	3rd ionization potential (eV)	1st ionization potential (kJ/mol)
79	Au	20.521		890
80	Hg	18.759	34.202	1007
81	Tl	20.428	29.829	589
82	Pb	15.028	31.943	716
83	Bi	16.687	25.559	703
84	Po			812
85	At			917
86	Rn			1037
87	Fr			380
88	Ra	10.148		509
89	Ac	12.126		499
90	Th	11.504	20.003	587
91	Pa			568
92	U			598
93	Np			605
94	Pu			585
95	Am			578
96	Cm			581
97	Bk			601
98	Cf			608
99	Es			619
100	Fm			627
101	Md			635
102	No			642
103	Lr			
104	Rf			
105	Db			
106	Sg			
107	Bh			
108	Hs			
109	Mt			
110	Ds			
111	Rg			
112	Cn			
113	Nh			
114	Fl			
115	Mc			
116	Lv			
117	Ts			

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential	3rd ionization potential (eV)	1st ionization potential (kJ/mol)
118	Og			

Element Data

Atomic #	Atomic Symbol	2nd ionization potential (kJ/mol)	3rd ionization potential (kJ/mol)	Electron Affinity (eV)	Electron Affinity (kJ/mol)
1	H			0.75	72
2	He	5250		<0	<0
3	Li	7394	11815	0.62	60
4	Be	1757	14848	<0	<0
5	B	2427	3660	0.28	27
6	C	2353	4620	1.26	122
7	N	2856	4578	<0	<0
8	O	3388	5300	1.46	141
9	F	3374	6050	3.40	328
10	Ne	3952	6122	<0	<0
11	Na	4562	6912	0.55	53
12	Mg	1451	7733	<0	<0
13	Al	1817	2745	0.44	42
14	Si	1577	3231	1.39	134
15	P	1903	2912	0.75	72
16	S	2251	3361	2.08	201
17	Cl	2297	3822	3.61	348
18	Ar	2666	3931	<0	<0
19	K	3051	4411	0.50	48
20	Ca	1145	4912	0.04	4
21	Sc	1235	2389	0.19	18
22	Ti	1310	2652	0.08	8
23	V	1414	2828	0.53	51
24	Cr	1592	2987	0.67	65
25	Mn	1509	3248	<0	<0
26	Fe	1561	2957	0.15	15
27	Co	1646	3232	0.66	64
28	Ni	1753	3393	1.16	112
29	Cu	1958	3554	1.24	120
30	Zn	1733	3833	<0	<0
31	Ga	1979	2963	0.30	29
32	Ge	1537	3302	1.23	119
33	As	1798	2735	0.81	78
34	Se	2045	2974	2.02	195
35	Br	2103	3473	3.36	324
36	Kr	2350	3565	<0	<0
37	Rb	2632	3859	0.49	47
38	Sr	1064	4207	0.11	11
39	Y	1181	1980	0.31	30

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential (kJ/mol)	3rd ionization potential (kJ/mol)	Electron Affinity (eV)	Electron Affinity (kJ/mol)
40	Zr	1267	2218	0.43	41
41	Nb	1382	2416	0.90	87
42	Mo	1588	2621	0.75	72
43	Tc	1472	2850	0.55	53
44	Ru	1617	2747	1.05	101
45	Rh	1744	2997	1.14	110
46	Pd	1894	3177	0.56	54
47	Ag	2073	3361	1.30	125
48	Cd	1631	3616	<0	<0
49	In	1821	2704	0.30	29
50	Sn	1412	2943	1.11	107
51	Sb	1595	2441	1.07	103
52	Te	1795	2698	1.97	190
53	I	1846	3184	3.06	295
54	Xe	2046	3097	<0	<0
55	Cs	2422		0.47	45
56	Ba	965		0.15	14
57	La	1067	1850	0.50	48
58	Ce	1047	1949		
59	Pr	1018	2086		
60	Nd	1035	2130		
61	Pm	1052	2150		
62	Sm	1068	2260		
63	Eu	1085	2405		
64	Gd	1167	1991		
65	Tb	1112	2114		
66	Dy	1126	2200		
67	Ho	1139	2204		
68	Er	1151	2194		
69	Tm	1163	2544		
70	Yb	1176	2415		
71	Lu	1340	2022		
72	Hf	1440	2250	0.00	0
73	Ta			0.32	31
74	W			0.86	83
75	Re			0.15	14
76	Os			1.10	106
77	Ir			1.57	151
78	Pt	1791		2.13	206

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential (kJ/mol)	3rd ionization potential (kJ/mol)	Electron Affinity (eV)	Electron Affinity (kJ/mol)
79	Au	1980		2.31	223
80	Hg	1810	3300	<0	<0
81	Tl	1971	2878	0.20	19
82	Pb	1450	3082	0.36	35
83	Bi	1610	2466	0.95	92
84	Po			1.90	183
85	At			2.80	270
86	Rn			<0	<0
87	Fr			0.46	44
88	Ra	979			
89	Ac	1170			
90	Th	1110	1930		
91	Pa				
92	U				
93	Np				
94	Pu				
95	Am				
96	Cm				
97	Bk				
98	Cf				
99	Es				
100	Fm				
101	Md				
102	No				
103	Lr				
104	Rf				
105	Db				
106	Sg				
107	Bh				
108	Hs				
109	Mt				
110	Ds				
111	Rg				
112	Cn				
113	Nh				
114	Fl				
115	Mc				
116	Lv				
117	Ts				

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Element Data

Atomic #	Atomic Symbol	2nd ionization potential (kJ/mol)	3rd ionization potential (kJ/mol)	Electron Affinity (eV)	Electron Affinity (kJ/mol)
118	Og				

Element Data

Atomic #	Atomic Symbol	common oxidation states	ions commonly formed	Predicted Electron Configuration
1	H	±1	±1	1s1
2	He	0		1s2
3	Li	+1	+1	[He] 2s1
4	Be	+2	+2	[He] 2s2
5	B	+3	+3	[He] 2s2 2p1
6	C	±4	-4	[He] 2s2 2p2
7	N	-3	-3	[He] 2s2 2p3
8	O	-2	-2	[He] 2s2 2p4
9	F	-1	-1	[He] 2s2 2p5
10	Ne	0		[He] 2s2 2p6
11	Na	+1	+1	[Ne] 3s1
12	Mg	+2	+2	[Ne] 3s2
13	Al	+3	+3	[Ne] 3s2 3p1
14	Si	±4	-4	[Ne] 3s2 3p2
15	P	-3	-3	[Ne] 3s2 3p3
16	S	-2	-2	[Ne] 3s2 3p4
17	Cl	-1	-1	[Ne] 3s2 3p5
18	Ar	0		[Ne] 3s2 3p6
19	K	+1	+1	[Ar] 4s1
20	Ca	+2	+2	[Ar] 4s2
21	Sc	+3	+3	[Ar] 4s2 3d1
22	Ti	+4,3,2	+4,3,2	[Ar] 4s2 3d2
23	V	+5,2,3,4	+5,2,3,4	[Ar] 4s2 3d3
24	Cr	+3,2,6	+3,2,6	[Ar] 4s2 3d4
25	Mn	+2,3,4,6,7	+2,3,4,6,7	[Ar] 4s2 3d5
26	Fe	+3,2	+3,2	[Ar] 4s2 3d6
27	Co	+2,3	+2,3	[Ar] 4s2 3d7
28	Ni	+2,3	+2,3	[Ar] 4s2 3d8
29	Cu	+2,1	+2,1	[Ar] 4s2 3d9
30	Zn	+2	+2	[Ar] 4s2 3d10
31	Ga	+3	+3	[Ar] 4s2 3d10 4p1
32	Ge	+4,2	+4,2	[Ar] 4s2 3d10 4p2
33	As	±3,+5	-3	[Ar] 4s2 3d10 4p3
34	Se	+4,-2,+6	-2	[Ar] 4s2 3d10 4p4
35	Br	±1,+5	-1	[Ar] 4s2 3d10 4p5
36	Kr	0		[Ar] 4s2 3d10 4p6
37	Rb	+1	+1	[Kr] 5s2
38	Sr	+2	+2	[Kr] 5s2
39	Y	+3	+3	[Kr] 5s2 4d1

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Element Data

Atomic #	Atomic Symbol	common oxidation states	ions commonly formed	Predicted Electron Configuration
40	Zr	+4	+4	[Kr] 5s2 4d2
41	Nb	+5,3	+5,3	[Kr] 5s2 4d3
42	Mo	+6,3,5	+6,3,5	[Kr] 5s2 4d4
43	Tc	+7,4,6	+7,4,6	[Kr] 5s2 4d5
44	Ru	+4,3,6,8	+4,3,6,8	[Kr] 5s2 4d6
45	Rh	+3,4,6	+3,4,6	[Kr] 5s2 4d7
46	Pd	+2,4	+2,4	[Kr] 5s2 4d8
47	Ag	+1	+1	[Kr] 5s2 4d9
48	Cd	+2	+2	[Kr] 5s2 4d10
49	In	+3	+3	[Kr] 5s2 4d10 5p1
50	Sn	+4,2	+4,2	[Kr] 5s2 4d10 5p2
51	Sb	+3,5	+3,5	[Kr] 5s2 4d10 5p3
52	Te	+4,6,-2	-2	[Kr] 5s2 4d10 5p4
53	I	-1,+5,7	-1	[Kr] 5s2 4d10 5p5
54	Xe	0		[Kr] 5s2 4d10 5p6
55	Cs	+1	+1	[Xe] 6s1
56	Ba	+2	+2	[Xe] 6s2
57	La	+3	+3	[Xe] 6s2 4f1
58	Ce	+3,4	+3,4	[Xe] 6s2 4f2
59	Pr	+3,4	+3,4	[Xe] 6s2 4f3
60	Nd	+3	+3	[Xe] 6s2 4f4
61	Pm	+3	+3	[Xe] 6s2 4f5
62	Sm	+3,2	+3,2	[Xe] 6s2 4f6
63	Eu	+3,2	+3,2	[Xe] 6s2 4f7
64	Gd	+3	+3	[Xe] 6s2 4f8
65	Tb	+3,4	+3,4	[Xe] 6s2 4f9
66	Dy	+3	+3	[Xe] 6s2 4f10
67	Ho	+3	+3	[Xe] 6s2 4f11
68	Er	+3	+3	[Xe] 6s2 4f12
69	Tm	+3,2	+3,2	[Xe] 6s2 4f13
70	Yb	+3,2	+3,2	[Xe] 6s2 4f14
71	Lu	+3	+3	[Xe] 6s2 4f14 5d1
72	Hf	+4	+4	[Xe] 6s2 4f14 5d2
73	Ta	+5	+5	[Xe] 6s2 4f14 5d3
74	W	+6,4	+6,4	[Xe] 6s2 4f14 5d4
75	Re	+7,4,6	+7,4,6	[Xe] 6s2 4f14 5d5
76	Os	+4,6,8	+4,6,8	[Xe] 6s2 4f14 5d6
77	Ir	+4,3,6	+4,3,6	[Xe] 6s2 4f14 5d7
78	Pt	+4,2	+4,2	[Xe] 6s2 4f14 5d8

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Element Data

Atomic #	Atomic Symbol	common oxidation states	ions commonly formed	Predicted Electron Configuration
79	Au	+3,1	+3,1	[Xe] 6s2 4f14 5d9
80	Hg	+2,1	+2,1	[Xe] 6s2 4f14 5d10
81	Tl	+1,3	+1,3	[Xe] 6s2 4f14 5d10 6p1
82	Pb	+2,4	+2,4	[Xe] 6s2 4f14 5d10 6p2
83	Bi	+3,5	+3,5	[Xe] 6s2 4f14 5d10 6p3
84	Po	+4,2	+4,2	[Xe] 6s2 4f14 5d10 6p4
85	At			[Xe] 6s2 4f14 5d10 6p5
86	Rn	0		[Xe] 6s2 4f14 5d10 6p6
87	Fr	+1	+1	[Rn] 7s1
88	Ra	+2	+2	[Rn] 7s2
89	Ac	+3	+3	[Rn] 7s2 5f1
90	Th	+4	+4	[Rn] 7s2 5f2
91	Pa	+5,4	+5,4	[Rn] 7s2 5f3
92	U	+6,3,4,5	+6,3,4,5	[Rn] 7s2 5f4
93	Np	+5,3,4,6	+5,3,4,6	[Rn] 7s2 5f5
94	Pu	+4,3,5,6	+4,3,5,6	[Rn] 7s2 5f6
95	Am	+3,4,5,6	+3,4,5,6	[Rn] 7s2 5f7
96	Cm	+3	+3	[Rn] 7s2 5f8
97	Bk	+3,4	+3,4	[Rn] 7s2 5f9
98	Cf	+3	+3	[Rn] 7s2 5f10
99	Es	+3	+3	[Rn] 7s2 5f11
100	Fm	+3	+3	[Rn] 7s2 5f12
101	Md	+3,2	+3,2	[Rn] 7s2 5f13
102	No	+2,3	+2,3	[Rn] 7s2 5f14
103	Lr	+3	+3	[Rn] 7s2 5f14 6d1
104	Rf			[Rn] 7s2 5f14 6d2
105	Db			[Rn] 7s2 5f14 6d3
106	Sg			[Rn] 7s2 5f14 6d4
107	Bh			[Rn] 7s2 5f14 6d5
108	Hs			[Rn] 7s2 5f14 6d6
109	Mt			[Rn] 7s2 5f14 6d7
110	Ds			[Rn] 7s2 5f14 6d8
111	Rg			[Rn] 7s2 5f14 6d9
112	Cn			[Rn] 7s2 5f14 6d10
113	Nh			[Rn] 7s2 5f14 6d10 7p1
114	Fl			[Rn] 7s2 5f14 6d10 7p2
115	Mc			[Rn] 7s2 5f14 6d10 7p3
116	Lv			[Rn] 7s2 5f14 6d10 7p4
117	Ts			

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Element Data

Atomic #	Atomic Symbol	common oxidation states	ions commonly formed	Predicted Electron Configuration
118	Og			[Rn] 7s2 5f14 6d10 7p6

Element Data

Atomic #	Atomic Symbol	Observed Electron Configuration	atomic radius (Å)	ionic radius (Å)	covalent radius (Å)
1	H	1s1	0.79	1.54	0.32
2	He	1s2	0.49		0.93
3	Li	[He] 2s1	2.05	0.76	1.23
4	Be	[He] 2s2	1.4	0.45	0.9
5	B	[He] 2s2 2p1	1.17	0.23	0.82
6	C	[He] 2s2 2p2	0.91	0.16	0.77
7	N	[He] 2s2 2p3	0.75	1.71	0.75
8	O	[He] 2s2 2p4	0.65	1.4	0.73
9	F	[He] 2s2 2p5	0.57	1.33	0.72
10	Ne	[He] 2s2 2p6	0.51		0.71
11	Na	[Ne] 3s1	2.23	1.02	1.54
12	Mg	[Ne] 3s2	1.72	0.72	1.36
13	Al	[Ne] 3s2 3p1	1.82	0.54	1.18
14	Si	[Ne] 3s2 3p2	1.46	0.26	1.11
15	P	[Ne] 3s2 3p3	1.23	0.17	1.06
16	S	[Ne] 3s2 3p4	1.09	0.29	1.02
17	Cl	[Ne] 3s2 3p5	0.97	1.81	0.99
18	Ar	[Ne] 3s2 3p6	0.88		0.98
19	K	[Ar] 4s1	2.77	1.51	2.03
20	Ca	[Ar] 4s2	2.23	1	1.74
21	Sc	[Ar] 4s2 3d1	2.09	0.75	1.44
22	Ti	[Ar] 4s2 3d2	2	0.61	1.32
23	V	[Ar] 4s2 3d3	1.92	0.54	1.22
24	Cr	[Ar] 4s1 3d5	1.85	0.62	1.18
25	Mn	[Ar] 4s2 3d5	1.79	0.67	1.17
26	Fe	[Ar] 4s2 3d6	1.72	0.55	1.17
27	Co	[Ar] 4s2 3d7	1.67	0.65	1.16
28	Ni	[Ar] 4s2 3d8	1.62	0.69	1.15
29	Cu	[Ar] 4s1 3d10	1.57	0.73	1.17
30	Zn	[Ar] 4s2 3d10	1.53	0.74	1.25
31	Ga	[Ar] 4s2 3d10 4p1	1.81	0.62	1.26
32	Ge	[Ar] 4s2 3d10 4p2	1.52	0.53	1.22
33	As	[Ar] 4s2 3d10 4p3	1.33	0.58	1.2
34	Se	[Ar] 4s2 3d10 4p4	1.22	0.5	1.16
35	Br	[Ar] 4s2 3d10 4p5	1.12	1.96	1.14
36	Kr	[Ar] 4s2 3d10 4p6	1.03		1.12
37	Rb	[Kr] 5s2	2.98	1.61	2.16
38	Sr	[Kr] 5s2	2.45	1.26	1.91
39	Y	[Kr] 5s2 4d1	2.27	1.02	1.62

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Element Data

Atomic #	Atomic Symbol	Observed Electron Configuration	atomic radius (Å)	ionic radius (Å)	covalent radius (Å)
40	Zr	[Kr] 5s2 4d2	2.16	0.84	1.45
41	Nb	[Kr] 5s1 4d4	2.08	0.64	1.67
42	Mo	[Kr] 5s1 4d5	2.01	0.59	1.3
43	Tc	[Kr] 5s2 4d5	1.95		1.27
44	Ru	[Kr] 5s1 4d7	1.89	0.62	1.25
45	Rh	[Kr] 5s1 4d8	1.83	0.67	1.25
46	Pd	[Kr] (5s0) 4d10	1.79	0.64	1.28
47	Ag	[Kr] 5s1 4d10	1.75	1.15	1.34
48	Cd	[Kr] 5s2 4d10	1.71	0.95	1.48
49	In	[Kr] 5s2 4d10 5p1	2	0.8	1.44
50	Sn	[Kr] 5s2 4d10 5p2	1.72	0.71	1.41
51	Sb	[Kr] 5s2 4d10 5p3	1.53	0.76	1.4
52	Te	[Kr] 5s2 4d10 5p4	1.43	0.97	1.36
53	I	[Kr] 5s2 4d10 5p5	1.32	2.2	1.33
54	Xe	[Kr] 5s2 4d10 5p6	1.24		1.31
55	Cs	[Xe] 6s1	3.34	1.74	2.35
56	Ba	[Xe] 6s2	2.78	1.42	1.98
57	La	[Xe] 6s2 4f1	2.74	1.16	1.69
58	Ce	[Xe] 6s2 4f2	2.7	1.14	1.65
59	Pr	[Xe] 6s2 4f3	2.67	1.13	1.65
60	Nd	[Xe] 6s2 4f4	2.64		1.64
61	Pm	[Xe] 6s2 4f5	2.62	1.07	1.63
62	Sm	[Xe] 6s2 4f6	2.59	1.08	1.62
63	Eu	[Xe] 6s2 4f7	2.56	1.07	1.85
64	Gd	[Xe] 6s2 4f8	2.54	1.05	1.61
65	Tb	[Xe] 6s2 4f9	2.51	1.18	1.59
66	Dy	[Xe] 6s2 4f10	2.49	1.03	1.59
67	Ho	[Xe] 6s2 4f11	2.47		1.58
68	Er	[Xe] 6s2 4f12	2.45	1	1.57
69	Tm	[Xe] 6s2 4f13	2.42	1.09	1.56
70	Yb	[Xe] 6s2 4f14	2.4	0.99	1.74
71	Lu	[Xe] 6s2 4f14 5d1	2.25	0.98	1.56
72	Hf	[Xe] 6s2 4f14 5d2	2.16	0.83	1.44
73	Ta	[Xe] 6s2 4f14 5d3	2.09	0.64	1.34
74	W	[Xe] 6s2 4f14 5d4	2.02	0.6	1.3
75	Re	[Xe] 6s2 4f14 5d5	1.97	0.53	1.28
76	Os	[Xe] 6s2 4f14 5d6	1.92	0.63	1.26
77	Ir	[Xe] 6s2 4f14 5d7	1.87	0.63	1.27
78	Pt	[Xe] 6s2 4f14 5d8	1.83	0.63	1.3

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Element Data

Atomic #	Atomic Symbol	Observed Electron Configuration	atomic radius (Å)	ionic radius (Å)	covalent radius (Å)
79	Au	[Xe] 6s2 4f14 5d9	1.79	0.85	1.34
80	Hg	[Xe] 6s2 4f14 5d10	1.76	1.02	1.49
81	Tl	[Xe] 6s2 4f14 5d10 6p1	2.08	1.59	1.48
82	Pb	[Xe] 6s2 4f14 5d10 6p2	1.81	1.19	1.47
83	Bi	[Xe] 6s2 4f14 5d10 6p3	1.63	1.03	1.46
84	Po	[Xe] 6s2 4f14 5d10 6p4	1.53		1.46
85	At	[Xe] 6s2 4f14 5d10 6p5	1.43		1.45
86	Rn	[Xe] 6s2 4f14 5d10 6p6	1.34		
87	Fr	[Rn] 7s1			
88	Ra	[Rn] 7s2		1.62	
89	Ac	[Rn] 7s2 5f1			
90	Th	[Rn] 7s2 5f2		1.05	1.65
91	Pa	[Rn] 7s2 5f3			
92	U	[Rn] 7s2 5f4		0.81	1.42
93	Np	[Rn] 7s2 5f5			
94	Pu	[Rn] 7s2 5f6			
95	Am	[Rn] 7s2 5f7			
96	Cm	[Rn] 7s2 5f8			
97	Bk	[Rn] 7s2 5f9			
98	Cf	[Rn] 7s2 5f10			
99	Es	[Rn] 7s2 5f11			
100	Fm	[Rn] 7s2 5f12			
101	Md	[Rn] 7s2 5f13			
102	No	[Rn] 7s2 5f14			
103	Lr	[Rn] 7s2 5f14 6d1			
104	Rf	[Rn] 7s2 5f14 6d2			
105	Db	[Rn] 7s2 5f14 6d3			
106	Sg	[Rn] 7s2 5f14 6d4			
107	Bh	[Rn] 7s2 5f14 6d5			
108	Hs	[Rn] 7s2 5f14 6d6			
109	Mt	[Rn] 7s2 5f14 6d7			
110	Ds	[Rn] 7s2 5f14 6d8			
111	Rg	[Rn] 7s2 5f14 6d9			
112	Cn	[Rn] 7s2 5f14 6d10			
113	Nh	[Rn] 7s2 5f14 6d10 7p1			
114	Fl	[Rn] 7s2 5f14 6d10 7p2			
115	Mc	[Rn] 7s2 5f14 6d10 7p3			
116	Lv	[Rn] 7s2 5f14 6d10 7p4			
117	Ts				

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Element Data

Atomic #	Atomic Symbol	Observed Electron Configuration	atomic radius (Å)	ionic radius (Å)	covalent radius (Å)
118	Og	[Rn] 7s2 5f14 6d10 7p6			

Element Data

Atomic #	Atomic Symbol	radius (2- ion) (pm)	radius (1- ion) (pm)	atomic radius (pm)	radius (1+ ion) (pm)	radius (2+ ion) (pm)	radius (3+ ion) (pm)
1	H			37.1			
2	He			31			
3	Li			152	90		
4	Be			112		59	
5	B			85			41
6	C			77.2			
7	N			70			30
8	O	126		73			
9	F		119	72			
10	Ne			71			
11	Na			186	116		
12	Mg			160		86	
13	Al			143			67.5
14	Si			117.6			
15	P			110			58
16	S	170		103			
17	Cl		167	100			
18	Ar			98			
19	K			227	152		
20	Ca			197		114	
21	Sc			162			88.5
22	Ti			147		100	81
23	V			134		93	78
24	Cr			128		90.5	75.5
25	Mn			127		89	75.3
26	Fe			126		83.5	73.8
27	Co			125		83.8	71.8
28	Ni			124		83	72
29	Cu			128	91	87	68
30	Zn			134		88	
31	Ga			135			76
32	Ge			122.3		87	
33	As			120			72
34	Se	184		119			
35	Br		182	114			
36	Kr			112			
37	Rb			248	166		
38	Sr			215		132	
39	Y			180			104

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Element Data

Atomic #	Atomic Symbol	radius (2- ion) (pm)	radius (1- ion) (pm)	atomic radius (pm)	radius (1+ ion) (pm)	radius (2+ ion) (pm)	radius (3+ ion) (pm)
40	Zr			160			
41	Nb			146			86
42	Mo			139			83
43	Tc			136			
44	Ru			134			82
45	Rh			134			80.5
46	Pd			137		100	90
47	Ag			144	129	108	89
48	Cd			151		109	
49	In			167			94
50	Sn			140.5			
51	Sb			140			90
52	Te	207		142			
53	I		206	133			
54	Xe			131			
55	Cs			265	181		
56	Ba			222		149	
57	La			187			117.2
58	Ce			182			115
59	Pr			182			113
60	Nd			181			112.3
61	Pm			183			111
62	Sm			180			109.8
63	Eu			208		131	108.7
64	Gd			180			107.8
65	Tb			177			106.3
66	Dy			178		121	105.2
67	Ho			176			104.1
68	Er			176			103
69	Tm			176		117	102
70	Yb			193		116	100.8
71	Lu			174			100.1
72	Hf			159			
73	Ta			146			86
74	W			139			
75	Re			137			
76	Os			135			
77	Ir			136			82
78	Pt			139		94	

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Element Data

Atomic #	Atomic Symbol	radius (2- ion) (pm)	radius (1- ion) (pm)	atomic radius (pm)	radius (1+ ion) (pm)	radius (2+ ion) (pm)	radius (3+ ion) (pm)
79	Au			144	151		99
80	Hg			151	133	116	
81	Tl			170	164		102.5
82	Pb			146		133	
83	Bi			150			117
84	Po			168			
85	At						
86	Rn						
87	Fr				194		
88	Ra					162	
89	Ac						126
90	Th			179			
91	Pa			163			118
92	U			156			116.5
93	Np			155		124	115
94	Pu			159			114
95	Am			173			111.5
96	Cm			174			111
97	Bk			170			110
98	Cf			186			109
99	Es			186			
100	Fm						
101	Md						
102	No					124	
103	Lr						
104	Rf						
105	Db						
106	Sg						
107	Bh						
108	Hs						
109	Mt						
110	Ds						
111	Rg						
112	Cn						
113	Nh						
114	Fl						
115	Mc						
116	Lv						
117	Ts						

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Element Data

Atomic #	Atomic Symbol	radius (2- ion) (pm)	radius (1- ion) (pm)	atomic radius (pm)	radius (1+ ion) (pm)	radius (2+ ion) (pm)	radius (3+ ion) (pm)
118	Og						

Element Data

Atomic #	Atomic Symbol	atomic volume (cm ³ /mol)	crystal structure	CAS Registry No.
1	H	14.4	hexagonal	1333-74-0
2	He	19.5	hexagonal	7440-59-7
3	Li	13.1	cubic: body centered	7439-93-2
4	Be	5	hexagonal	7440-41-7
5	B	4.6	rhombohedral	7440-42-8
6	C	4.58	hexagonal	7440-44-0
7	N	17.3	hexagonal	77727-37-9
8	O	14	cubic	7782-44-7
9	F	12.6	cubic	7782-41-4
10	Ne	17.3	cubic: face centered	7440-01-9
11	Na	23.7	cubic: body centered	7440-23-5
12	Mg	13.97	hexagonal	7439-95-4
13	Al	10	cubic: face centered	7429-90-5
14	Si	12.1	cubic: face centered	7440-21-3
15	P	17	monoclinic	7723-14-0
16	S	15.5	orthorhombic	7704-34-9
17	Cl	16.9	orthorhombic	7782-50-5
18	Ar	23.9	cubic: face centered	7440-37-1
19	K	45.46	cubic: body centered	7440-09-7
20	Ca	25.9	cubic: face centered	7440-70-2
21	Sc	15	hexagonal	7440-20-2
22	Ti	10.64	hexagonal	7440-32-6
23	V	8.78	cubic: body centered	7440-62-2
24	Cr	7.23	cubic: body centered	7440-47-3
25	Mn	7.39	cubic: body centered	7439-96-5
26	Fe	7.1	cubic: body centered	7439-89-6
27	Co	6.7	hexagonal	7440-48-4
28	Ni	6.59	cubic: face centered	7440-02-0
29	Cu	7.1	cubic: face centered	7440-50-8
30	Zn	9.2	hexagonal	7440-66-6
31	Ga	11.8	orthorhombic	7440-55-3
32	Ge	13.6	cubic: face centered	7440-56-2
33	As	13.1	rhombohedral	7440-38-2
34	Se	16.45	hexagonal	7782-49-2
35	Br	25.6	orthorhombic	7726-95-6
36	Kr	38.9	cubic: face centered	7439-90-9
37	Rb	55.9	cubic: body centered	7440-17-7
38	Sr	33.7	cubic: face centered	7440-24-6
39	Y	19.8	hexagonal	7440-65-5

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Element Data

Atomic #	Atomic Symbol	atomic volume (cm ³ /mol)	crystal structure	CAS Registry No.
40	Zr	14.1	hexagonal	7440-67-7
41	Nb	10.87	cubic: body centered	7440-03-1
42	Mo	9.4	cubic: body centered	7439-98-7
43	Tc	8.5	hexagonal	7440-26-8
44	Ru	8.3	hexagonal	7440-18-8
45	Rh	8.3	cubic: face centered	7440-16-6
46	Pd	8.9	cubic: face centered	7440-05-3
47	Ag	10.3	cubic: face centered	7440-22-4
48	Cd	13.1	hexagonal	7440-43-9
49	In	15.7	tetragonal	7440-74-6
50	Sn	16.3	tetragonal	7440-31-5
51	Sb	18.23	rhombohedral	7440-36-0
52	Te	20.5	hexagonal	13494-80-9
53	I	25.74	orthorhombic	7553-56-2
54	Xe	37.3	cubic: face centered	7440-63-3
55	Cs	71.07	cubic: body centered	7440-46-2
56	Ba	39.24	cubic: body centered	7440-39-3
57	La	20.73	hexagonal	7439-91-0
58	Ce	20.67	cubic: face centered	7440-45-1
59	Pr	20.8	hexagonal	7440-10-0
60	Nd	20.6	hexagonal	7440-00-8
61	Pm	22.39	hexagonal	7440-12-2
62	Sm	19.95	rhombohedral	7440-19-9
63	Eu	28.9	cubic: body centered	7440-53-3
64	Gd	19.9	hexagonal	7440-54-2
65	Tb	19.2	hexagonal	7440-27-9
66	Dy	19	hexagonal	7429-91-6
67	Ho	18.8	hexagonal	7440-60-0
68	Er	18.4	hexagonal	7440-52-0
69	Tm	18.1	hexagonal	7440-30-4
70	Yb	24.79	cubic: face centered	7440-64-4
71	Lu	17.78	hexagonal	7439-94-3
72	Hf	13.6	hexagonal	7440-58-6
73	Ta	10.9	cubic: body centered	7440-25-7
74	W	9.53	cubic: body centered	7440-33-7
75	Re	8.85	hexagonal	7440-15-5
76	Os	8.49	hexagonal	7440-04-02
77	Ir	8.54	cubic: face centered	7439-88-5
78	Pt	9.1	cubic: face centered	7440-06-4

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Element Data

Atomic #	Atomic Symbol	atomic volume (cm ³ /mol)	crystal structure	CAS Registry No.
79	Au	10.2	cubic: face centered	7440-57-5
80	Hg	14.82	rhombohedral	7439-97-6
81	Tl	17.2	hexagonal	7440-28-0
82	Pb	18.17	cubic: face centered	7439-92-1
83	Bi	21.3	rhombohedral	7440-69-9
84	Po	22.23	monoclinic	7440-08-6
85	At			7440-68-8
86	Rn	50.5	cubic: face centered	10043-92-2
87	Fr		cubic: body centered	7440-73-5
88	Ra	45.2	cubic: body centered	7440-14-4
89	Ac	22.54	cubic: face centered	7440-34-8
90	Th	19.9	cubic: face centered	7440-29-1
91	Pa	15	orthorhombic	7440-13-3
92	U	12.59	orthorhombic	7440-61-1
93	Np	11.62	orthorhombic	7439-99-8
94	Pu	12.32	monoclinic	7440-07-5
95	Am	17.86	hexagonal	7440-35-9
96	Cm	18.28	hexagonal	7440-51-9
97	Bk			7440-40-6
98	Cf			7440-71-3
99	Es			7429-92-7
100	Fm			7440-72-4
101	Md			7440-11-1
102	No			10028-14-5
103	Lr			22537-19-5
104	Rf			53850-36-5
105	Db			53850-35-4
106	Sg			54038-81-2
107	Bh			54037-14-8
108	Hs			54037-57-9
109	Mt			54038-01-6
110	Ds			54083-77-1
111	Rg			54386-24-2
112	Cn			54084-26-3
113	Nh			54084-70-7
114	Fl			54085-16-4
115	Mc			54085-64-2
116	Lv			54100-71-9
117	Ts			87658-56-8

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Element Data

Atomic #	Atomic Symbol	atomic volume (cm ³ /mol)	crystal structure	CAS Registry No.
118	Og			54144-19-3

Element Data

Atomic #	Atomic Symbol	electrical conductivity (mho/cm)	specific heat (J/g K)	heat of fusion (kJ/mol)	heat of vaporization (kJ/mol)
1	H		14.304	0.05868	0.44936
2	He		5.193		0.0845
3	Li	0.108	3.6	3	145.92
4	Be	0.313	1.82	12.2	292.4
5	B	1E-12	1.02	50.2	489.7
6	C	0.00061	0.71		355.8
7	N		1.04	0.3604	2.7928
8	O		0.92	0.22259	3.4099
9	F		0.82	0.2552	3.2698
10	Ne		0.904	0.3317	1.7326
11	Na	0.21	1.23	2.598	96.96
12	Mg	0.226	1.02	8.954	127.4
13	Al	0.377	0.9	10.79	293.4
14	Si	2.52E-12	0.71	50.55	384.22
15	P	1E-17	0.77	0.657	12.129
16	S	5E-24	0.71	1.7175	
17	Cl		0.48	3.23	10.2
18	Ar		0.52	1.188	6.447
19	K	0.139	0.75	2.334	79.87
20	Ca	0.298	0.63	8.54	153.3
21	Sc	0.0177	0.6	14.1	314.2
22	Ti	0.0234	0.52	15.45	421
23	V	0.0489	0.49	20.9	0.452
24	Cr	0.0774	0.45	16.9	344.3
25	Mn	0.00695	0.48	12.05	266
26	Fe	0.0993	0.44	13.8	349.6
27	Co	0.172	0.42	16.19	376.5
28	Ni	0.143	0.44	17.47	370.4
29	Cu	0.596	0.38	13.05	300.3
30	Zn	0.166	0.39	7.322	115.3
31	Ga	0.0678	0.37	5.59	258.7
32	Ge	1.45E-08	0.32	36.94	330.9
33	As	0.0345	0.33		34.76
34	Se	1E-12	0.32	6.694	37.7
35	Br		0.473	5.286	15.438
36	Kr		0.248	1.638	9.029
37	Rb	0.0779	0.363	2.192	72.216
38	Sr	0.0762	0.3	8.3	144
39	Y	0.0166	0.3	11.4	363

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Element Data

Atomic #	Atomic Symbol	electrical conductivity (mho/cm)	specific heat (J/g K)	heat of fusion (kJ/mol)	heat of vaporization (kJ/mol)
40	Zr	0.0236	0.27	16.9	58.2
41	Nb	0.0693	0.26	26.4	682
42	Mo	0.187	0.25	32	598
43	Tc	0.067	0.21	24	660
44	Ru	0.137	0.238	24	595
45	Rh	0.211	0.242	21.5	493
46	Pd	0.095	0.24	17.6	357
47	Ag	0.63	0.235	11.3	250.58
48	Cd	0.138	0.23	6.192	99.57
49	In	0.116	0.23	3.263	231.5
50	Sn	0.0917	0.227	7.029	295.8
51	Sb	0.0288	0.21	19.87	77.14
52	Te	0.000002	0.2	17.49	52.55
53	I	8E-16	0.214	7.824	20.752
54	Xe		0.158	2.297	12.636
55	Cs	0.0489	0.24	2.092	67.74
56	Ba	0.03	0.204	7.75	142
57	La	0.0126	0.19	6.2	414
58	Ce	0.0115	0.19	5.46	414
59	Pr	0.0148	0.19	6.89	296.8
60	Nd	0.0157	0.19	7.14	273
61	Pm		0.18		
62	Sm	0.00956	0.2	8.63	166.4
63	Eu	0.00112	0.18	9.21	143.5
64	Gd	0.00736	0.23	10.05	359.4
65	Tb	0.00889	0.18	10.8	330.9
66	Dy	0.0108	0.17	11.06	230.1
67	Ho	0.0124	0.16	12.2	241
68	Er	0.0117	0.17	19.9	261
69	Tm	0.015	0.16	16.84	191
70	Yb	0.0351	0.15	7.66	128.9
71	Lu	0.0185	0.15	18.6	355.9
72	Hf	0.0312	0.14	24.06	575
73	Ta	0.0761	0.14	31.6	743
74	W	0.189	0.13	35.4	824
75	Re	0.0542	0.13	33.2	715
76	Os	0.109	0.13	31.8	746
77	Ir	0.197	0.13	26.1	604
78	Pt	0.0966	0.13	19.6	510

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Element Data

Atomic #	Atomic Symbol	electrical conductivity (mho/cm)	specific heat (J/g K)	heat of fusion (kJ/mol)	heat of vaporization (kJ/mol)
79	Au	0.452	0.128	12.55	334.4
80	Hg	0.0104	0.139	2.295	59.229
81	Tl	0.0617	0.13	4.142	164.1
82	Pb	0.0481	0.13	4.799	177.7
83	Bi	0.00867	0.12	11.3	104.8
84	Po	0.0219	0.12		
85	At				
86	Rn		0.09	2.89	16.4
87	Fr	0.03			
88	Ra		0.12		
89	Ac				
90	Th	0.0653	0.12	16.1	514.4
91	Pa	0.0529	0.12	12.3	
92	U	0.038	0.12	8.52	477
93	Np	0.00822	0.12	5.19	
94	Pu	0.00666	0.13	2.84	344
95	Am	0.022	0.11	14.4	
96	Cm			15	
97	Bk				
98	Cf				
99	Es				
100	Fm				
101	Md				
102	No				
103	Lr				
104	Rf				
105	Db				
106	Sg				
107	Bh				
108	Hs				
109	Mt				
110	Ds				
111	Rg				
112	Cn				
113	Nh				
114	Fl				
115	Mc				
116	Lv				
117	Ts				

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Element Data

Atomic #	Atomic Symbol	electrical conductivity (mho/cm)	specific heat (J/g K)	heat of fusion (kJ/mol)	heat of vaporization (kJ/mol)
118	Og				

Element Data

Atomic #	Atomic Symbol	thermal conductivity (W/(m K))	mg/kg in Earth's crust	mg/L in seawater	% human body mass
1	H	0.1815	1400	108000	10
2	He	0.152	0.008	7E-16	
3	Li	84.7	20	0.18	
4	Be	200	2.8	0.0000056	
5	B	27	10	4.44	0.00007
6	C	129	200	28	23
7	N	0.02598	19	50	2.6
8	O	0.02674	461000	857000	61
9	F	0.0279	585	1.3	0.0033
10	Ne	0.0493	0.005	0.00012	
11	Na	141	0.000236	10800	0.14
12	Mg	156	23300	1290	0.027
13	Al	237	82300	0.002	0.00009
14	Si	148	282000	2.2	0.026
15	P	0.235	1050	0.06	1.1
16	S	0.269	350	905	0.2
17	Cl	0.0089	145	19400	0.12
18	Ar	0.01772	3.5	0.45	
19	K	102.4	20900	399	0.2
20	Ca	200	41500	412	1.4
21	Sc	15.8	22	0.0000006	
22	Ti	21.9	5650	0.001	
23	V	30.7	120	0.0025	
24	Cr	93.7	102	0.0003	0.000003
25	Mn	7.82	950	0.0002	0.00002
26	Fe	80.2	56300	0.002	0.006
27	Co	100	25	0.00002	0.000002
28	Ni	90.7	84	5.6E-14	0.00001
29	Cu	401	60	2.5E-14	0.0001
30	Zn	116	70	0.0049	0.0033
31	Ga	40.6	19	0.00003	
32	Ge	59.9	1.5	0.00005	
33	As	50	1.8	0.0037	
34	Se	2.04	0.05	0.0002	
35	Br	0.122	2.4	67.3	0.00029
36	Kr	0.00949	0.0001	0.00021	
37	Rb	58.2	90	0.12	0.00046
38	Sr	35.3	370	7.2	0.00046
39	Y	17.2	33	0.000013	

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Element Data

Atomic #	Atomic Symbol	thermal conductivity (W/(m K))	mg/kg in Earth's crust	mg/L in seawater	% human body mass
40	Zr	22.7	165	0.00003	
41	Nb	53.7	20	0.00001	
42	Mo	138	1.2	0.01	0.00001
43	Tc	50.6			
44	Ru	117	0.001	0.0000007	
45	Rh	150	0.001		
46	Pd	71.8	0.015		
47	Ag	429	0.075	0.00004	
48	Cd	96.8	0.15	0.00011	0.00007
49	In	81.6	0.25	0.002	
50	Sn	66.6	2.3	0.000004	0.00002
51	Sb	24.3	0.2	0.00024	
52	Te	2.35	0.001		
53	I	0.449	0.45	0.06	0.00002
54	Xe	0.00569	0.00003	0.00005	
55	Cs	59	3	0.0003	0.000002
56	Ba	18.4	425	0.013	0.00003
57	La	13.5	39	0.0000034	
58	Ce	11.4	66.5	0.0000012	
59	Pr	12.5	9.2	0.00000064	
60	Nd	16.5	41.5	0.0000028	
61	Pm	17.9			
62	Sm	13.3	7.05	0.00000045	
63	Eu	13.9	2	0.00000013	
64	Gd	10.6	6.2	0.0000007	
65	Tb	11.1	1.2	0.00000014	
66	Dy	10.7	5.2	0.00000091	
67	Ho	16.2	1.3	0.00000022	
68	Er	14.3	3.5	0.00000087	
69	Tm	16.8	0.52	0.00000017	
70	Yb	34.9	3.2	0.00000082	
71	Lu	16.4	0.8	0.00000015	
72	Hf	23	3	0.000007	
73	Ta	57.5	2	0.000002	
74	W	174	1.25	0.0001	
75	Re	47.9	0.0007	0.000004	
76	Os	87.6	0.0015		
77	Ir	147	0.001		
78	Pt	71.6	0.005		

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Element Data

Atomic #	Atomic Symbol	thermal conductivity (W/(m K))	mg/kg in Earth's crust	mg/L in seawater	% human body mass
79	Au	317	0.004	0.004	0.00001
80	Hg	8.34	0.085	0.00003	
81	Tl	46.1	0.85	0.000019	
82	Pb	35.3	0.14	0.00003	0.00017
83	Bi	7.87	0.0085	0.00002	
84	Po	20	2E-10	1.4E-14	
85	At	1.7			
86	Rn	0.00364	4E-13	6E-16	
87	Fr	15			
88	Ra	18.6	0.0000009	8.9E-11	
89	Ac	12	5.5E-10		
90	Th	54	9.6	0.000001	
91	Pa	47	0.0000014	5E-11	
92	U	27.6	2.7	0.0032	0.0000001
93	Np	6.3			
94	Pu	6.74			
95	Am	10			
96	Cm	10			
97	Bk	10			
98	Cf	10			
99	Es	10			
100	Fm	10			
101	Md	10			
102	No	10			
103	Lr	10			
104	Rf	23			
105	Db	58			
106	Sg				
107	Bh				
108	Hs				
109	Mt				
110	Ds				
111	Rg				
112	Cn				
113	Nh				
114	Fl				
115	Mc				
116	Lv				
117	Ts				

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Element Data

Atomic #	Atomic Symbol	thermal conductivity (W/(m K))	mg/kg in Earth's crust	mg/L in seawater	% human body mass
118	Og				

Element Data

Atomic #	Atomic Symbol	Notes	source
1	H		Water, methane
2	He		Natural gas, air
3	Li		Spodumene (silicate)
4	Be		Beryl (silicate)
5	B	sublimes	Na and Ca borates (misc)
6	C	graphite	Coal,Petroleum,Natural gas
7	N		Air
8	O		Air
9	F		Fluorite (misc)
10	Ne		Air
11	Na		Halite (misc)
12	Mg		Seawater, magnesite
13	Al		Bauxite (oxide)
14	Si		Quartz (oxide)
15	P	white	Apatite (phosphate)
16	S	yellow	Sulfur,pyrite,natural gas
17	Cl		Halite, brine (misc)
18	Ar		Air
19	K		Sylvite, carnallite (misc)
20	Ca		Calcite (oxide)
21	Sc		U extractn by-product
22	Ti		Ilmenite, rutile(oxide)
23	V		U, Pb vanadates (misc)
24	Cr		Chromite (oxide)
25	Mn		Pyrolusite,psilomelane(oxide)
26	Fe		Hematite,magnetite(oxide)
27	Co		Co sulfides & arsenides
28	Ni		sulfides, oxide/silicates
29	Cu		Cu pyrite,chalcocite(sulfide)
30	Zn		Sphalerite (sulfide)
31	Ga		Bauxite (oxide)
32	Ge		Zn smelting by-product
33	As	sublimes (28 atm)	Arsenopyrite, enargite (misc)
34	Se		Cu smelting by-product
35	Br		Seawater, brines
36	Kr		Air
37	Rb		Li extractn by-product
38	Sr		Celestite (sulfide)
39	Y		xenotime (phosphate)

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Element Data

Atomic #	Atomic Symbol	Notes	source
40	Zr		Zircon (silicate)
41	Nb		columbite (oxide)
42	Mo		Molybdenite (sulfide)
43	Tc		Synthetic (U fission)
44	Ru		nickel ores (sulfides)
45	Rh		nickel ores (sulfides)
46	Pd		nickel ores (sulfides)
47	Ag		Argentite (sulfide)
48	Cd		Sphalerite (sulfide)
49	In		Zn/Pb smelting by-product
50	Sn		Cassiterite (oxide)
51	Sb		Stibnite (sulfide)
52	Te		Zn/Pb smelting by-product
53	I		Brines, Chilean nitrate (misc)
54	Xe		Air
55	Cs		Li extractn by-product
56	Ba		Barite (sulfate)
57	La		Monazite(phosphate),bastnaesite
58	Ce		Monazite(phosphate),bastnaesite
59	Pr		Monazite(phosphate),bastnaesite
60	Nd		Monazite(phosphate),bastnaesite
61	Pm		Synthetic
62	Sm		Monazite(phosphate),bastnaesite
63	Eu		Monazite(phosphate),bastnaesite
64	Gd		Monazite(phosphate),bastnaesite
65	Tb		Monazite(phosphate),bastnaesite
66	Dy		Monazite(phosphate),bastnaesite
67	Ho		Monazite(phosphate),bastnaesite
68	Er		Monazite(phosphate),bastnaesite
69	Tm		Monazite(phosphate),bastnaesite
70	Yb		Monazite(phosphate),bastnaesite
71	Lu		Monazite(phosphate),bastnaesite
72	Hf		Zircon (silicate)
73	Ta		Tantalite (oxide)
74	W		Scheelite,wolframite(oxide)
75	Re		Molybdenite (sulfide)
76	Os		nickel ores (sulfides)
77	Ir		nickel ores (sulfides)
78	Pt		nickel ores (sulfides)

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Element Data

Atomic #	Atomic Symbol	Notes	source
79	Au		Gold, gold bearing rock (misc)
80	Hg		Cinnabar (sulfide)
81	Tl		Zn/Pb smelting by-product
82	Pb		Galena (sulfide)
83	Bi		Pb smelting by-product
84	Po		pitchblende, synthetic
85	At		Synthetic(Th or U decay)
86	Rn		Synthetic(Ra-226 decay)
87	Fr		Synthetic(U-235 decay)
88	Ra		pitchblende(U-238 decay)
89	Ac		Synthetic(U-235 decay)
90	Th		Monazite(phosphate),U extractn
91	Pa		Synthetic(U-235 decay)
92	U		Uranite (oxide)
93	Np		Synthetic
94	Pu		Synthetic
95	Am		Synthetic
96	Cm		Synthetic
97	Bk		Synthetic
98	Cf		Synthetic
99	Es		Synthetic
100	Fm		Synthetic
101	Md		Synthetic
102	No		Synthetic
103	Lr		Synthetic
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	Notes	source
118	Og		

Element Data

Atomic #	Atomic Symbol	color	characteristics
1	H	colorless	diatomic, dens<air at r.t.
2	He	colorless	Inert, dens<air at r.t.
3	Li	silvery	soft, lightest solid
4	Be	steel gray	toxic
5	B	black	B12 icosahedra; 3 forms
6	C	black	6 forms: graphite, diamond
7	N	colorless	diatomic(N ₂)
8	O	colorless	diatomic, 2 forms: O ₂ , O ₃
9	F	colorless	diatomic(F ₂), corrosive
10	Ne	colorless	Inert, dens<air at r.t.
11	Na	silvery	soft
12	Mg	silvery	burns brightly
13	Al	silvery	passivated: surface oxide
14	Si	gray-black	semimetal
15	P	white-yellow	(P ₄) pyrophoric, 15 forms
16	S	yellow(pale)	(S ₈) brittle, 19 forms
17	Cl	greenish-yellow	diatomic(Cl ₂), corrosive
18	Ar	colorless	Inert
19	K	silvery-white	soft
20	Ca	silvery-white	burns brightly
21	Sc	silvery-white	soft
22	Ti	gray	max strength/weight ratio
23	V	bright white	soft
24	Cr	silvery-white	hard
25	Mn	gray-white	hard, brittle
26	Fe	gray	fairly soft when pure
27	Co	bluish-white	hard
28	Ni	silvery-white	hard, takes a high polish
29	Cu	orange-red	soft, ductile
30	Zn	silvery	brittle
31	Ga	silvery-blue	melts near r.t. wets glass
32	Ge	gray-black	semimetal, brittle
33	As	gray	semimetal, brittle, 3 forms
34	Se	black	6 forms
35	Br	red-brown	diatomic, corrosive, liquid
36	Kr	colorless	unreactive
37	Rb	silvery-white	soft
38	Sr	silvery	tarnishes
39	Y	silvery	forms protective oxide

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Element Data

Atomic #	Atomic Symbol	color	characteristics
40	Zr	grayish-white	hard, relatively inert
41	Nb	silvery-white	soft
42	Mo	silvery-white	very hard
43	Tc	silvery gray	Radioactive, man made
44	Ru	silvery-white	hard
45	Rh	silvery-white	forms hard coatings
46	Pd	silvery-white	absorbs H ₂
47	Ag	silvery	soft, ductile, tarnishes
48	Cd	bluish-white	soft
49	In	silvery-white	soft
50	Sn	silvery-white	resists corrosion; 2 forms
51	Sb	bluish-white	brittle; 5 forms
52	Te	silvery	semimetal
53	I	bluish-black	diatomic
54	Xe	colorless	unreactive
55	Cs	yellow/silvery	softest metal
56	Ba	silvery-white	soft
57	La	silvery-white	soft, malleable
58	Ce	silvery-white	malleable
59	Pr	silvery-white	soft
60	Nd	silvery-white	
61	Pm	silvery-white	Radioactive
62	Sm	silvery-white	
63	Eu	silvery-white	hard
64	Gd	silvery-white	
65	Tb	silvery-white	soft
66	Dy	silvery-white	neutron absorber
67	Ho	silvery-white	
68	Er	silvery-white	
69	Tm	silvery-white	soft
70	Yb	silvery-white	soft
71	Lu	silvery-white	
72	Hf	silvery	hard
73	Ta	gray	hard, inert at <100 deg.C
74	W	bluish-gray	highest melting metal
75	Re	silvery-white	high melting point
76	Os	bluish-white	hard, dense, inert <100 C
77	Ir	white	hard, densest el, inert
78	Pt	silvery-white	Inert, ductile

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Element Data

Atomic #	Atomic Symbol	color	characteristics
79	Au	golden yellow	Inert, ductile malleable
80	Hg	silvery-white	liquid at r.t., volatile
81	Tl	bluish-gray	soft
82	Pb	gray	soft
83	Bi	white	brittle
84	Po	blue glow	Radioactive; 2 forms
85	At		Radioactive
86	Rn	colorless	Radioactive, air pollutant
87	Fr		Radioactive
88	Ra	white	Radioactive, luminescent
89	Ac	silvery-white	Radioactive
90	Th	white	Radioactive
91	Pa	silvery	Radioactive
92	U	silvery	Radioactive
93	Np	silvery	Radioactive
94	Pu	silvery	Radioactive
95	Am	silvery-white	Radioactive
96	Cm	silvery-white	Radioactive
97	Bk	silvery	Radioactive
98	Cf		Radioactive
99	Es		Radioactive
100	Fm		Radioactive
101	Md		Radioactive
102	No		Radioactive
103	Lr		Radioactive, few atoms made
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	color	characteristics
118	Og		

Element Data

Atomic #	Atomic Symbol	structure	hardness (mohs)
1	H	hcp: hexagonal close pkd	
2	He		
3	Li	bcc: body-centered cubic	0.6
4	Be	hcp: hexagonal close pkd	
5	B	special: B12 icosahedra	9.5
6	C	hexagonal layers	0.8
7	N		
8	O		
9	F	layers of F2	
10	Ne	fcc: face-centered cubic	
11	Na	bcc: body-centered cubic	0.4
12	Mg	hcp: hexagonal close pkd	2
13	Al	fcc: face-centered cubic	2.8
14	Si	diamond	7
15	P	special: P4 tetrahedra	0.5
16	S	S8 rings	2
17	Cl	layers of Cl2	
18	Ar	fcc: face-centered cubic	
19	K	bcc: body-centered cubic	0.5
20	Ca	hcp: hexagonal close pkd	1.5
21	Sc	hcp: hexagonal close pkd	
22	Ti	hcp: hexagonal close pkd	
23	V	bcc: body-centered cubic	
24	Cr	bcc: body-centered cubic	9
25	Mn	special: complex (cubic)	5
26	Fe	bcc: body-centered cubic	4.5
27	Co	hcp: hexagonal close pkd	
28	Ni	fcc: face-centered cubic	
29	Cu	fcc: face-centered cubic	2.75
30	Zn	distorted hcp structure	2.5
31	Ga	special: complex	1.5
32	Ge	diamond	
33	As	rhombohedral	3.5
34	Se	parallel chains	2
35	Br	layers of Br2	
36	Kr	fcc: face-centered cubic	
37	Rb	bcc: body-centered cubic	0.3
38	Sr	hcp: hexagonal close pkd	1.8
39	Y	hcp: hexagonal close pkd	

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Element Data

Atomic #	Atomic Symbol	structure	hardness (mohs)
40	Zr	hcp: hexagonal close pkd	
41	Nb	bcc: body-centered cubic	
42	Mo	bcc: body-centered cubic	
43	Tc	hcp: hexagonal close pkd	
44	Ru	hcp: hexagonal close pkd	6.5
45	Rh	fcc: face-centered cubic	
46	Pd	fcc: face-centered cubic	4.8
47	Ag	fcc: face-centered cubic	3.25
48	Cd	distorted hcp structure	2
49	In	distorted fcc structure	1.2
50	Sn	distorted diamond	1.65
51	Sb	rhombohedral	3.15
52	Te	parallel chains	2.3
53	I	layers of I ₂	
54	Xe	fcc: face-centered cubic	
55	Cs	bcc: body-centered cubic	0.2
56	Ba	bcc: body-centered cubic	
57	La	cp: close packed (ABCB)	
58	Ce	fcc: face-centered cubic	
59	Pr	cp: close packed (ABCB)	
60	Nd	cp: close packed (ABCB)	
61	Pm	cp: close packed (ABCB)	
62	Sm	cp: cls pkd (ABCBCACAB)	
63	Eu	bcc: body-centered cubic	
64	Gd	hcp: hexagonal close pkd	
65	Tb	hcp: hexagonal close pkd	
66	Dy	hcp: hexagonal close pkd	
67	Ho	hcp: hexagonal close pkd	
68	Er	hcp: hexagonal close pkd	
69	Tm	hcp: hexagonal close pkd	
70	Yb	fcc: face-centered cubic	
71	Lu	hcp: hexagonal close pkd	
72	Hf	hcp: hexagonal close pkd	
73	Ta	bcc: body-centered cubic	
74	W	bcc: body-centered cubic	
75	Re	hcp: hexagonal close pkd	
76	Os	hcp: hexagonal close pkd	7
77	Ir	fcc: face-centered cubic	6.25
78	Pt	fcc: face-centered cubic	4.3

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Element Data

Atomic #	Atomic Symbol	structure	hardness (mohs)
79	Au	fcc: face-centered cubic	2.75
80	Hg	rhombohedral	
81	Tl	hcp: hexagonal close pkd	1.2
82	Pb	fcc: face-centered cubic	1.5
83	Bi	rhombohedral	2.5
84	Po	special: simple cubic	
85	At		
86	Rn		
87	Fr		
88	Ra	bcc: body-centered cubic	
89	Ac	fcc: face-centered cubic	
90	Th	fcc: face-centered cubic	
91	Pa	fcc: face-centered cubic	
92	U	hcp:hex cls pkd distorted	
93	Np	special:complex	
94	Pu	fcc: face-centered cubic	
95	Am	fcc: face-centered cubic	
96	Cm	fcc: face-centered cubic	
97	Bk	fcc: face-centered cubic	
98	Cf		
99	Es		
100	Fm		
101	Md		
102	No		
103	Lr		
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	structure	hardness (mohs)
118	Og		

Element Data

Atomic #	Atomic Symbol	uses	reaction with air
1	H	rocket fuel	vigorous, =>H ₂ O
2	He	cryogenics, blimps	none
3	Li	batteries, lubricant	vigorous, =>Li ₂ O
4	Be	Cu alloys, X-ray windows	vigorous, w/ht=>BeO,Be ₃ N ₂
5	B	borax, glass making(B ₂ O ₃)	mild, w/ht =>B ₂ O ₃
6	C	fuel(coal), lubricant	vigorous, =>CO ₂
7	N	fertilizer, cryogenics	none
8	O	rocket fuel, steel mfr.	none
9	F	fluorocarbons, toothpaste	none
10	Ne	Neon signs	none
11	Na	lamps, table salt	vigorous, =>Na ₂ O ₂
12	Mg	alloys, flash bulbs	vigorous,w/ht =>MgO,Mg ₃ N ₂
13	Al	Al cans & foil,reflectors	mild, w/ht =>Al ₂ O ₃
14	Si	comp chip,lubricant,glass	mild, =>SiO ₂
15	P	fertilizer, detergents	vigorous,=>P ₄ O ₁₀ , ignites
16	S	rubber, batteries (H ₂ SO ₄)	vigorous, w/ht =>SO ₂
17	Cl	bleach (NaOCl), PVC pipe	none
18	Ar	lasers, light bulbs	none
19	K	fertilizer, low-Na salt	vigorous, =>KO ₂
20	Ca	lime, cement	vigorous, =>CaO, Ca ₃ N ₂
21	Sc	no significant uses	vigorous, =>Sc ₂ O ₃
22	Ti	steel,white pigment(TiO ₂)	mild, w/ht =>TiO ₂ , TiN
23	V	tool steel, V ₂ O ₅ catalyst	mild, w/ht =>V ₂ O ₅ , VN
24	Cr	CrO ₂ tape, paint, steel	none
25	Mn	steel, dry cells(MnO ₂)	mild, w/ht =>Mn ₃ O ₄ , Mn ₃ N ₂
26	Fe	steel	mild, =>Fe ₃ O ₄
27	Co	magnets, Co glass (blue)	mild, w/ht =>Co ₃ O ₄
28	Ni	alloys, coins, batteries	mild, w/ht =>NiO
29	Cu	wire, bronze, coins	mild, w/ht =>CuO, Cu ₂ O
30	Zn	batteries, galvanizing	vigorous, =>ZnO
31	Ga	photocells, transistors	mild, =>Ga ₂ O ₃
32	Ge	transistor, wide-ang lens	mild, w/ht =>GeO ₂
33	As	photocells (GaAs), poisons	mild, w/ht =>As ₄ O ₆
34	Se	Xerography, medicines	vigorous, w/ht =>SeO ₂
35	Br	pesticides,photography	none
36	Kr	lamps, UV-laser	none
37	Rb	photocells	vigorous, =>RbO ₂
38	Sr	fireworks (red flame)	vigorous, =>SrO, Sr ₂ N ₃
39	Y	YAG laser, TV phosphor	vigorous, =>Y ₂ O ₃

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Element Data

Atomic #	Atomic Symbol	uses	reaction with air
40	Zr	deodorants, fuel rod clad	mild, w/ht =>Zr ₂ O ₃
41	Nb	stainless steels, magnets	none, w/ht =>Nb ₂ O ₃
42	Mo	catalysts, tool steel	none, w/ht =>MoO ₃
43	Tc	medical imaging agents	mild, w/ht, =>Tc ₂ O ₇
44	Ru	catalysts	none below 800 deg.C
45	Rh	catalysts, elec. contacts	none, w/ht =>Rh ₂ O ₃
46	Pd	catalysts, dental crowns	mild, w/ht, =>PdO
47	Ag	film(AgBr),coins,jewelry	mild, =>Ag ₂ O
48	Cd	battery,yel. pigment(CdS)	mild, w/ht =>CdO
49	In	transistors, photocells	mild, =>In ₂ O ₃
50	Sn	solder, pewter, bronze	mild, w/ht, =>SnO ₂
51	Sb	Pb alloy(battery), dyeing	mild, w/ht, =>Sb ₂ O _x x=3-5
52	Te	semiconductors, steel	mild, w/ht, =>TeO ₂
53	I	nutrient, antiseptic	none
54	Xe	UV-laser, hi intens lamps	none
55	Cs	photocells, IR lamps	vigorous, =>CsO ₂
56	Ba	X-ray imaging agnt(BaSO ₄)	vigorous,wt/ht=>BaO,Ba ₂ N ₃
57	La	lighter flints, CRTs	vigorous, w/ht =>La ₂ O ₃
58	Ce	self-cleaning ovens(CeO ₂)	vigorous, w/ht =>CeO ₂
59	Pr	alloys, Welder's mask	vigorous, =>Pr ₆ O ₁₁ approx
60	Nd	alloys, Welder's mask	vigorous, w/ht =>Nd ₂ O ₃
61	Pm	nuclear battery	vigorous, =>Pm ₂ O ₃
62	Sm	alloys, headphones	vigorous, =>Sm ₂ O ₃
63	Eu	alloys, color TV phosphor	vigorous, =>Eu ₂ O ₃
64	Gd	alloys, CD disk	vigorous, =>Gd ₂ O ₃
65	Tb	alloys	vigorous, =>Tb ₄ O ₇ (approx.)
66	Dy	alloys, CD disk	vigorous, =>Dy ₂ O ₃
67	Ho	alloys	vigorous, =>Ho ₂ O ₃
68	Er	alloys, photogr. filter	vigorous, =>Er ₂ O ₃
69	Tm	alloys	vigorous, =>Tm ₂ O ₃
70	Yb	alloys	vigorous, =>Yb ₂ O ₃
71	Lu	alloys	vigorous, =>Lu ₂ O ₃
72	Hf	nuclear control rods	mild, w/ht, =>HfO ₂
73	Ta	surg. implants,heat exch.	none
74	W	WC drill bits, bulb wire	none, w/ht =>WO ₃
75	Re	catalysts, thermocouples	mild, w/ht =>Re ₂ O ₇
76	Os	hard alloys,phono needles	none
77	Ir	Pt/Ir sparkplugs	none
78	Pt	jewelry, catalysts	none

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Element Data

Atomic #	Atomic Symbol	uses	reaction with air
79	Au	jewelry, electronics	none
80	Hg	amalgams, Cl ₂ , NaOH prod.	none, w/ht (350C) =>HgO
81	Tl	IR detectors, photomult.	mild, =>Tl ₂ O
82	Pb	batteries, solder, paints	mild, w/ht, =>PbO
83	Bi	antacid, fusible alloy	mild, w/ht =>Bi ₂ O ₃
84	Po	thermoelectric power	mild, =>PoO ₂
85	At		
86	Rn	earthquake prediction	none
87	Fr		
88	Ra	neutron source	vigorous, =>RaO ₂ , Ra ₃ N ₂
89	Ac	thermoelectric power	mild, w/ht, =>Ac ₂ O ₃
90	Th	gas mantles (ThO ₂)	mild, w/ht ignites =>ThO ₂
91	Pa		
92	U	nuclear reactor fuel	mild, =>U ₃ O ₈
93	Np		
94	Pu	weapon fuel, pacemakers	
95	Am	smoke detector	
96	Cm	thermoelec. pwr, n source	
97	Bk		
98	Cf	neutron source	
99	Es		
100	Fm		
101	Md		
102	No		
103	Lr		
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	uses	reaction with air
118	Og		

Element Data

Atomic #	Atomic Symbol	reaction with water	reaction with 6M HCl
1	H	none	none
2	He	none	none
3	Li	mild, $\Rightarrow$ H ₂ , LiOH	vigorous, $\Rightarrow$ H ₂ , LiCl
4	Be	none	mild, $\Rightarrow$ H ₂
5	B	none	none
6	C	none	none
7	N	none	none
8	O	none	none
9	F	vigorous, $\Rightarrow$ HF, OF ₂	vigorous, $\Rightarrow$ HF, OF ₂ , ClF ₃
10	Ne	none	none
11	Na	vigorous, $\Rightarrow$ H ₂ , NaOH	vigorous, $\Rightarrow$ H ₂ , NaCl
12	Mg	mild, w/ht $\Rightarrow$ Mg(OH) ₂ , H ₂	mild, $\Rightarrow$ H ₂ , MgCl ₂
13	Al	none	mild, $\Rightarrow$ H ₂ , AlCl ₃
14	Si	none	none
15	P	none	none
16	S	none	none
17	Cl	mild, $\Rightarrow$ HOCl, Cl ⁻ , Cl ₂ (aq)	mild, $\Rightarrow$ HOCl, Cl ⁻
18	Ar	none	none
19	K	vigorous, $\Rightarrow$ H ₂ , KOH	vigorous, $\Rightarrow$ H ₂ , KCl
20	Ca	mild, $\Rightarrow$ H ₂ , Ca(OH) ₂	vigorous, $\Rightarrow$ H ₂ , CaCl ₂
21	Sc	mild, $\Rightarrow$ H ₂ , Sc(OH) ₃	mild, $\Rightarrow$ H ₂ , ScCl ₃
22	Ti	none	none
23	V	none	none
24	Cr	none	mild, $\Rightarrow$ H ₂ , CrCl ₃
25	Mn	none	mild, $\Rightarrow$ H ₂ , MnCl ₂
26	Fe	none	mild, $\Rightarrow$ H ₂ , FeCl ₂
27	Co	none	mild, $\Rightarrow$ H ₂ , CoCl ₂
28	Ni	none	mild, $\Rightarrow$ H ₂ , NiCl ₂
29	Cu	none	none
30	Zn	none	mild, $\Rightarrow$ H ₂ , ZnCl ₂
31	Ga	none	mild, $\Rightarrow$ GaCl ₃ , H ₂
32	Ge	none	none
33	As	none	none
34	Se		none
35	Br	none, dissolves Br ₂ (aq)	none, dissolves Br ₂ (aq)
36	Kr	none	none
37	Rb	vigorous, $\Rightarrow$ H ₂ , RbOH	vigorous, $\Rightarrow$ H ₂ , RbCl
38	Sr	mild, $\Rightarrow$ H ₂ , Sr(OH) ₂	vigorous, $\Rightarrow$ H ₂ , SrCl ₂
39	Y	mild, $\Rightarrow$ H ₂ , Y(OH) ₃	mild, $\Rightarrow$ H ₂ , YCl ₃

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Element Data

Atomic #	Atomic Symbol	reaction with water	reaction with 6M HCl
40	Zr	none	none
41	Nb	none	none
42	Mo	none	none
43	Tc	none	none
44	Ru	none	none
45	Rh	none	none
46	Pd	none	none
47	Ag	none	none
48	Cd	none	mild, $\Rightarrow$ H ₂ , Cd(Cl) ₂
49	In		mild, $\Rightarrow$ H ₂ , InCl ₃
50	Sn	none	none
51	Sb	none	none
52	Te	none	none
53	I	none, dissolves slightly	none
54	Xe	none	none
55	Cs	vigorous, $\Rightarrow$ H ₂ , CsOH	vigorous, $\Rightarrow$ H ₂ , CsCl
56	Ba	vigorous, $\Rightarrow$ H ₂ , Ba(OH) ₂	vigorous, $\Rightarrow$ H ₂ , BaCl ₂
57	La	mild, $\Rightarrow$ H ₂ , La(OH) ₃	mild, $\Rightarrow$ H ₂ , LaCl ₃
58	Ce	mild, $\Rightarrow$ H ₂ , Ce(OH) ₃	vigorous, $\Rightarrow$ H ₂ , CeCl ₃
59	Pr	mild, $\Rightarrow$ H ₂ , Pr(OH) ₃	mild, $\Rightarrow$ H ₂ , PrCl ₃
60	Nd	mild, $\Rightarrow$ H ₂ , Nd(OH) ₃	mild, $\Rightarrow$ H ₂ , NdCl ₃
61	Pm	mild, $\Rightarrow$ H ₂ , Pm(OH) ₃	mild, $\Rightarrow$ H ₂ , PmCl ₃
62	Sm	mild, $\Rightarrow$ H ₂ , Sm(OH) ₃	mild, $\Rightarrow$ H ₂ , SmCl ₃
63	Eu	mild, $\Rightarrow$ H ₂ , Eu(OH) ₃	mild, $\Rightarrow$ H ₂ , EuCl ₃
64	Gd	mild, $\Rightarrow$ H ₂ , Gd(OH) ₃	mild, $\Rightarrow$ H ₂ , GdCl ₃
65	Tb	mild, $\Rightarrow$ H ₂ , Tb(OH) ₃	mild, $\Rightarrow$ H ₂ , TbCl ₃
66	Dy	mild, $\Rightarrow$ H ₂ , Dy(OH) ₃	mild, $\Rightarrow$ H ₂ , DyCl ₃
67	Ho	mild, $\Rightarrow$ H ₂ , Ho(OH) ₃	mild, $\Rightarrow$ H ₂ , HoCl ₃
68	Er	mild, $\Rightarrow$ H ₂ , Er(OH) ₃	mild, $\Rightarrow$ H ₂ , ErCl ₃
69	Tm	mild, $\Rightarrow$ H ₂ , Tm(OH) ₃	mild, $\Rightarrow$ H ₂ , TmCl ₃
70	Yb	mild, $\Rightarrow$ H ₂ , Yb(OH) ₃	mild, $\Rightarrow$ H ₂ , YbCl ₃
71	Lu	mild, $\Rightarrow$ H ₂ , Lu(OH) ₃	mild, $\Rightarrow$ H ₂ , LuCl ₃
72	Hf	none	none
73	Ta	none	none
74	W	none	none
75	Re	none	none
76	Os	none	none
77	Ir	none	none
78	Pt	none	none

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Element Data

Atomic #	Atomic Symbol	reaction with water	reaction with 6M HCl
79	Au	none	none
80	Hg	none	none
81	Tl	mild, =>TIOH	
82	Pb	none	none
83	Bi	none	none
84	Po	none	mild, =>PoCl ₂
85	At		
86	Rn	none	none
87	Fr	vigorous, =>H ₂ , FrOH	vigorous, =>H ₂ , FrCl
88	Ra		
89	Ac	mild, =>H ₂ , Ac(OH) ₃	mild, =>H ₂ , AcCl ₃
90	Th	none	mild
91	Pa	none	
92	U	mild (powder)	mild, =>H ₂
93	Np		
94	Pu		
95	Am		
96	Cm		
97	Bk		
98	Cf		
99	Es		
100	Fm		
101	Md		
102	No		
103	Lr		
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	reaction with water	reaction with 6M HCl
118	Og		

Element Data

Atomic #	Atomic Symbol	reaction with 15M HNO3	reaction with 6M NaOH
1	H	none	none
2	He	none	none
3	Li	vigorous, =>LiNO3	mild, =>H2, LiOH
4	Be	none	mild, =>H2, [Be(OH)4](2-)
5	B	none	none
6	C	mild,w/ht=>C6(COOH)6	none
7	N	none	none
8	O	none	none
9	F		vigorous, =>O2, NaF
10	Ne	none	none
11	Na	vigorous, =>NaNO3, NOx	vigorous, =>H2, NaOH
12	Mg	vigorous, =>NOx, Mg(NO3)2	none
13	Al	passivated	mild, =>H2, [Al(OH)4]-
14	Si	none	mild, =>silicates
15	P	mild, =>NOx	mild, =>PH3, may ignite
16	S	mild, =>H2SO4, NOx	none
17	Cl	mild, =>HClOx, NOxCl, NOx	mild, =>OCl-, Cl-
18	Ar	none	none
19	K	vigorous, =>H2, NOx, KNO3	vigorous, =>H2, KOH
20	Ca	vigorous, =>H2, Ca(NO3)2	none
21	Sc	mild, =>Sc(NO3)3	
22	Ti	passivated	none
23	V	mild	none
24	Cr	passivated	
25	Mn	mild, =>Mn(NO3)2, NOx	
26	Fe	passivated	
27	Co	vigorous, =>Co(NO3)2, NOx	
28	Ni	passivated	none
29	Cu	mild, =>Cu(NO3)2, NOx	
30	Zn	vigorous, =>Zn(NO3)2, NOx	mild, =>[Zn(OH)4](2-), H2
31	Ga		mild, =>[Ga(OH)4]2-, H2
32	Ge	mild, =>Ge(IV), NOx	none
33	As	mild, w/ht =>H3AsO4, NOx	none
34	Se	mild, =>H2SeO3, NOx	
35	Br		mild, =>OBr-, Br-
36	Kr	none	none
37	Rb	vigorous,=>RbNO3, H2, NOx	vigorous, =>H2, RbOH
38	Sr	vigorous, =>Sr(NO3)2, H2	none
39	Y	vigorous, =>Y(NO3)3	

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Element Data

Atomic #	Atomic Symbol	reaction with 15M HNO ₃	reaction with 6M NaOH
40	Zr	passivated	none
41	Nb		none
42	Mo		
43	Tc	mild, =>HTcO ₄	
44	Ru	none	
45	Rh	none	none
46	Pd	mild, =>Pd(NO ₃) ₂	none
47	Ag	mild, =>AgNO ₃	
48	Cd	mild, =>Cd(NO ₃) ₂ , NO _x	none
49	In	mild, =>In(NO ₃) ₃	none
50	Sn	mild, =>SnO ₂ , NO _x	mild, =>H ₂ , [Sn(OH) ₆] ²⁻
51	Sb	mild, =>Sb ₂ O ₅	none
52	Te	mild, =>Te(IV)	
53	I	mild, =>HIO ₃	mild, =>OI ⁻ , I ⁻
54	Xe	none	none
55	Cs	vigorous, =>CsNO ₃	vigorous, =>H ₂ , CsOH
56	Ba	mild, =>Ba(NO ₃) ₂	passivated
57	La	mild, =>La(NO ₃) ₃	
58	Ce	mild, =>Ce(NO ₃) ₃	
59	Pr	mild, =>Pr(NO ₃) ₃	
60	Nd	mild, =>Nd(NO ₃) ₃	
61	Pm	mild, =>Pm(NO ₃) ₃	
62	Sm	mild, =>Sm(NO ₃) ₃	
63	Eu	mild, =>Eu(NO ₃) ₃	
64	Gd	mild, =>Gd(NO ₃) ₃	
65	Tb	mild, =>Tb(NO ₃) ₃	
66	Dy	mild, =>Dy(NO ₃) ₃	
67	Ho	mild, =>Ho(NO ₃) ₃	
68	Er	mild, =>Er(NO ₃) ₃	
69	Tm	mild, =>Tm(NO ₃) ₃	
70	Yb	mild, =>Yb(NO ₃) ₃	
71	Lu	mild, =>Lu(NO ₃) ₃	
72	Hf	passivated	none
73	Ta	none	none
74	W		
75	Re	mild, =>HReO ₄	
76	Os	mild, =>OsO ₄	
77	Ir	none	none
78	Pt	none	none

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Element Data

Atomic #	Atomic Symbol	reaction with 15M HNO ₃	reaction with 6M NaOH
79	Au	none	none
80	Hg	mild, =>NO _x , Hg(NO ₃) ₂	none
81	Tl	mild, =>TlNO ₃	
82	Pb	mild, =>NO _x , Pb(NO ₃) ₂	
83	Bi	mild, =>Bi(NO ₃) ₃ , NO _x	
84	Po		
85	At		
86	Rn	none	none
87	Fr		vigorous, =>H ₂ , FrOH
88	Ra		
89	Ac	mild, =>Ac(NO ₃) ₃	
90	Th	passivated	none
91	Pa		none
92	U	passivated	none
93	Np		
94	Pu	passivated	
95	Am		
96	Cm		
97	Bk		
98	Cf		
99	Es		
100	Fm		
101	Md		
102	No		
103	Lr		
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	reaction with 15M HNO ₃	reaction with 6M NaOH
118	Og		

Element Data

Atomic #	Atomic Symbol	hydride(s)	oxide(s)
1	H	H ₂	H ₂ O
2	He	none	none
3	Li	LiH	Li ₂ O
4	Be	BeH ₂	BeO
5	B	B ₂ H ₆ and many B _x H _y	B ₂ O ₃
6	C	CH ₄ and many C _x H _y	CO CO ₂
7	N	NH ₃ N ₂ H ₄ HN ₃	N ₂ O NO NO ₂ N ₂ O ₅
8	O	H ₂ O	O ₂ O ₃
9	F	HF	OF ₂
10	Ne	none	none
11	Na	NaH	Na ₂ O
12	Mg	MgH ₂	MgO
13	Al	AlH ₃	Al ₂ O ₃
14	Si	SiH ₄ Si ₂ H ₆ + more	SiO ₂
15	P	PH ₃ P ₂ H ₄ + more	P ₄ O ₁₀ P ₄ O ₆
16	S	H ₂ S	SO ₂ SO ₃
17	Cl	HCl	Cl ₂ O ClO ₂ Cl ₂ O ₇
18	Ar	none	none
19	K	KH	K ₂ O
20	Ca	CaH ₂	CaO
21	Sc	ScH ₂ ScH ₃	Sc ₂ O ₃
22	Ti	TiH ₂	TiO Ti ₂ O ₃ TiO ₂ + more
23	V	VH VH ₂	VO V ₂ O ₃ VO ₂ V ₂ O ₅
24	Cr	CrH	Cr ₂ O ₃ CrO ₂ CrO ₃ +non-stoich
25	Mn	none	MnO Mn ₃ O ₄ Mn ₂ O ₃ MnO ₂ Mn ₂ O ₇
26	Fe	none	FeO Fe ₃ O ₄ Fe ₂ O ₃
27	Co	none	CoO Co ₃ O ₄
28	Ni	NiH	NiO
29	Cu	CuH	Cu ₂ O CuO
30	Zn	ZnH ₂	ZnO
31	Ga	GaH ₃	Ga ₂ O ₃
32	Ge	GeH ₄ Ge ₂ H ₆ + more	GeO GeO ₂
33	As	AsH ₃	As ₂ O ₃
34	Se	SeH ₂	SeO ₂ SeO ₃
35	Br	HBr	Br ₂ O BrO ₂
36	Kr	none	none
37	Rb	RbH	Rb ₂ O
38	Sr	SrH ₂	SrO
39	Y	YH ₂ YH ₃	Y ₂ O ₃

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Element Data

Atomic #	Atomic Symbol	hydride(s)	oxide(s)
40	Zr	ZrH ₂	ZrO ₂
41	Nb	NbH NbH ₂	NbO NbO ₂ Nb ₂ O ₅
42	Mo	none	MoO ₂ MoO ₃
43	Tc	none	TcO ₂ Tc ₂ O ₇
44	Ru	none	RuO ₂ RuO ₄
45	Rh	none	Rh ₂ O ₃ RhO ₂
46	Pd	PdH _x x<1 non-stoich	PdO
47	Ag	none	Ag ₂ O
48	Cd		CdO
49	In		In ₂ O ₃
50	Sn	SnH ₄ Sn ₂ H ₆	SnO SnO ₂
51	Sb	SbH ₃	Sb ₂ O ₃ Sb ₂ O ₄ Sb ₂ O ₅
52	Te	H ₂ Te	TeO ₂ TeO ₃
53	I	HI	I ₂ O ₅ I ₄ O ₉ I ₂ O ₄
54	Xe	none	XeO ₃ XeO ₄
55	Cs	CsH	Cs ₂ O
56	Ba	BaH ₂	BaO
57	La	LaH ₂ LaH ₃	La ₂ O ₃
58	Ce	CeH ₂ CeH ₃	Ce ₂ O ₃ CeO ₂
59	Pr	PrH ₂ PrH ₃	PrO ₂ Pr ₆ O ₁₁
60	Nd	NdH ₂ NdH ₃	Nd ₂ O ₃
61	Pm		Pm ₂ O ₃
62	Sm	SmH ₂ SmH ₃	Sm ₂ O ₃
63	Eu	EuH ₂	Eu ₂ O ₃
64	Gd	GdH ₂ GdH ₃	Gd ₂ O ₃
65	Tb	TbH ₂ TbH ₃	TbO ₂ Tb ₄ O ₇
66	Dy	DyH ₂ DyH ₃	Dy ₂ O ₃
67	Ho	HoH ₂ HoH ₃	Ho ₂ O ₃
68	Er	ErH ₂ ErH ₃	Er ₂ O ₃
69	Tm	TmH ₂ TmH ₃	Tm ₂ O ₃
70	Yb	YbH ₂ Yb ₂ H ₅	Yb ₂ O ₃
71	Lu	LuH ₂ LuH ₃	Lu ₂ O ₃
72	Hf	HfH ₂	HfO ₂
73	Ta	TaH	TaO ₂ Ta ₂ O ₅
74	W		WO ₂ WO ₃
75	Re	none	Re ₂ O ₅ ReO ₃ Re ₂ O ₇
76	Os	none	OsO ₂ OsO ₄
77	Ir	none	IrO ₂
78	Pt	none	PtO ₂

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Element Data

Atomic #	Atomic Symbol	hydride(s)	oxide(s)
79	Au	none	Au ₂ O ₃
80	Hg	none	HgO
81	Tl		Tl ₂ O Tl ₂ O ₃
82	Pb	PbH ₄	PbO Pb ₃ O ₄ Pb ₂ O ₃ PbO ₂
83	Bi	BiH ₃	Bi ₂ O ₃
84	Po		PoO PoO ₂
85	At	HAt	
86	Rn		
87	Fr		
88	Ra		
89	Ac	AcH ₂	Ac ₂ O ₃
90	Th	ThH ₂ Th ₄ H ₁₅	ThO ₂
91	Pa	PaH ₃	PaO PaO ₂ Pa ₂ O ₅
92	U	UH ₃	UO UO ₂ U ₂ O ₅ U ₃ O ₈ UO ₃
93	Np	NpH ₂ NpH ₃	NpO NpO ₂ Np ₂ O ₅
94	Pu	PuH ₂ PuH ₃	PuO Pu ₂ O ₃ PuO ₂
95	Am	AmH ₂ AmH ₃	AmO Am ₂ O ₃ AmO ₂
96	Cm	CmH ₂	CmO Cm ₂ O ₃ CmO ₂
97	Bk		BkO Bk ₂ O ₃ BkO ₂
98	Cf		CfO Cf ₂ O ₃ CfO ₂
99	Es		Es ₂ O ₃
100	Fm		
101	Md		
102	No		
103	Lr		
104	Rf		
105	Db		
106	Sg		
107	Bh		
108	Hs		
109	Mt		
110	Ds		
111	Rg		
112	Cn		
113	Nh		
114	Fl		
115	Mc		
116	Lv		
117	Ts		

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Element Data

Atomic #	Atomic Symbol	hydride(s)	oxide(s)
118	Og		

Element Data

Atomic #	Atomic Symbol	chloride(s)	polarizability (Å ³)	heat atomization (kJ/mol)
1	H	HCl	0.7	218
2	He	none	0.198	0
3	Li	LiCl	24.3	161
4	Be	BeCl ₂	5.6	324
5	B	BCl ₃ and many BxCl _y	3	573
6	C	CCl ₄	1.8	717
7	N	NCI ₃	1.1	473
8	O	Cl ₂ O ClO ₂ Cl ₂ O ₇	0.793	249
9	F	ClF ClF ₃ ClF ₅	0.634	79
10	Ne	none	0.396	0
11	Na	NaCl	23.6	109
12	Mg	MgCl ₂	10.6	148
13	Al	AlCl ₃ Al ₂ Cl ₆	8.3	326
14	Si	SiCl ₄ Si ₂ Cl ₆ + more	5.4	452
15	P	PCl ₃ PCl ₅ P ₂ Cl ₄	3.6	315
16	S	S ₂ Cl ₂ SCl ₂	2.9	279
17	Cl	Cl ₂	2.2	121
18	Ar	none	1.586	0
19	K	KCl	43.4	90
20	Ca	CaCl ₂	22.8	178
21	Sc	ScCl ₃	17.8	378
22	Ti	TiCl ₂ TiCl ₃ TiCl ₄	14.6	470
23	V	VCi ₂ VCi ₃ VCi ₄	12.4	514
24	Cr	CrCl ₂ CrCl ₃	11.6	397
25	Mn	MnCl ₂	9.4	281
26	Fe	FeCl ₂ FeCl ₃	8.4	418
27	Co	CoCl ₂	7.5	425
28	Ni	NiCl ₂	6.8	430
29	Cu	CuCl CuCl ₂	6.7	338
30	Zn	ZnCl ₂	6.4	131
31	Ga	GaCl Ga ₂ Cl ₆	8.1	286
32	Ge	GeCl ₂ GeCl ₄	6.1	377
33	As	AsCl ₃ AsCl ₅	4.3	302
34	Se	Se ₂ Cl ₂ Se ₄ Cl ₁₆	3.8	227
35	Br	BrCl	3.1	112
36	Kr	none	2.5	0
37	Rb	RbCl	47.3	86
38	Sr	SrCl ₂	27.6	164
39	Y	YCl ₃	22.7	423

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Element Data

Atomic #	Atomic Symbol	chloride(s)	polarizability (Å ³)	heat atomization (kJ/mol)
40	Zr	ZrCl ₃ ZrCl ₄	17.9	609
41	Nb	NbCl ₃ NbCl ₄ NbCl ₅	15.7	726
42	Mo	MoCl _x [x=2-6]	12.8	658
43	Tc	TcCl ₄	11.4	677
44	Ru	RuCl ₂ RuCl ₃	9.6	643
45	Rh	RhCl ₃	8.6	556
46	Pd	PdCl ₂	4.8	378
47	Ag	AgCl	7.9	284
48	Cd	CdCl ₂	7.2	112
49	In	InCl InCl ₃	9.7	243
50	Sn	SnCl ₂ SnCl ₄	7.7	302
51	Sb	SbCl ₃ SbCl ₅	6.6	262
52	Te	Te ₂ Cl Te ₃ Cl ₂ Te ₄ Cl ₁₆	5.5	197
53	I	ICl ICl ₃	5	107
54	Xe	none	4	0
55	Cs	CsCl	59.6	79
56	Ba	BaCl ₂	39.7	180
57	La	LaCl ₃	31.1	423
58	Ce	CeCl ₃	29.6	419
59	Pr	PrCl ₃	28.2	356
60	Nd	NdCl ₂ NdCl ₃	31.4	328
61	Pm		30.1	301
62	Sm	SmCl ₂ SmCl ₃	28.8	207
63	Eu	EuCl ₂ EuCl ₃	27.7	178
64	Gd	GdCl ₃	23.5	398
65	Tb	TbCl ₃	25.5	389
66	Dy	DyCl ₂ DyCl ₃	24.5	291
67	Ho	HoCl ₃	23.6	301
68	Er	ErCl ₃	22.7	317
69	Tm	TmCl ₂ TmCl ₃	21.8	232
70	Yb	YbCl ₂ YbCl ₃	21	152
71	Lu	LuCl ₃	21.9	
72	Hf	HfCl ₃ HfCl ₄	16.2	619
73	Ta	TaCl ₃ TaCl ₄ TaCl ₅	13.1	782
74	W	WCl _x [x=2-6]	11.1	849
75	Re	Re ₃ Cl ₉ ReCl ₄ ReCl ₅ ReCl ₆	9.7	770
76	Os	OsCl ₃ OsCl ₄ OsCl ₅	8.5	791
77	Ir	IrCl ₃	7.6	665
78	Pt	PtCl ₂ PtCl ₄	6.5	565

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Element Data

Atomic #	Atomic Symbol	chloride(s)	polarizability (Å ³)	heat atomization (kJ/mol)
79	Au	AuCl AuCl ₃	6.1	366
80	Hg	Hg ₂ Cl ₂ HgCl ₂	5.4	61
81	Tl	TlCl TlCl ₃	7.6	182
82	Pb	PbCl ₂ PbCl ₄	6.8	196
83	Bi	BiCl ₃ BiCl ₄	7.4	207
84	Po	PoCl ₂ PoCl ₄	6.8	144
85	At		6	92
86	Rn		5.3	0
87	Fr		48.7	73
88	Ra	RaCl ₂	38.3	159
89	Ac	AcCl ₃	32.1	385
90	Th	ThCl ₄	32.1	576
91	Pa	PaCl ₄ PaCl ₅	25.4	527
92	U	UCl ₃ UCl ₄ UCl ₅ UCl ₆	27.4	490
93	Np	NpCl ₃ NpCl ₄	24.8	
94	Pu	PuCl ₂ PuCl ₃	24.5	352
95	Am	AmCl ₂ AmCl ₃	23.3	
96	Cm	CmCl ₃	23	
97	Bk	BkCl ₃	22.7	
98	Cf	CfCl ₃	20.5	
99	Es		19.7	
100	Fm		23.8	
101	Md		18.2	
102	No		17.5	
103	Lr			
104	Rf			
105	Db			
106	Sg			
107	Bh			
108	Hs			
109	Mt			
110	Ds			
111	Rg			
112	Cn			
113	Nh			
114	Fl			
115	Mc			
116	Lv			
117	Ts			

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Element Data

Atomic #	Atomic Symbol	chloride(s)	polarizability (A ³)	heat atomization (kJ/mol)
118	Og			

Element Data

Atomic #	Atomic Symbol	year discovered	rel. abund. solar system	abundance earth's crust (log)	cost, pure (\$/100g)
1	H	1766	10.446	3.1	12
2	He	1895	9.435	-2.1	5.2
3	Li	1817	1.757	1.3	27
4	Be	1797	-0.137	0.4	530
5	B	1808	1.326	1	250
6	C		7.004	2.3	2.4
7	N	1772	6.496	1.3	0.4
8	O	1774	7.377	5.7	0.3
9	F	1886	2.926	2.8	190
10	Ne	1898	6.537	-2.3	33
11	Na	1807	4.759	4.4	7
12	Mg	1808	6.031	4.4	3.7
13	Al	1825	4.929	4.9	1.8
14	Si	1824	6.000	5.5	5.4
15	P	1669	4.017	3	4
16	S		5.712	2.4	24
17	Cl	1774	3.719	2.1	0.15
18	Ar	1894	5.004	0.5	0.5
19	K	1807	3.576	4.3	85
20	Ca	1808	4.786	4.65	11
21	Sc	1879	1.534	1.3	1400
22	Ti	1791	3.380	3.8	6.1
23	V	1830	2.467	2.1	220
24	Cr	1798	4.130	2	10
25	Mn	1774	3.980	3	1.7
26	Fe		5.954	4.8	6.7
27	Co	1737	3.352	1.4	21
28	Ni	1751	4.693	1.9	7.7
29	Cu		2.718	1.7	2.7
30	Zn	1600	3.100	1.79	3.7
31	Ga	1875	1.577	1.2	220
32	Ge	1886	2.076	0.7	360
33	As	1600	0.817	0.3	320
34	Se	1818	1.793	-1.3	14
35	Br	1826	1.072	0.4	4.9
36	Kr	1898	1.653	-4	33
37	Rb	1861	0.851	2	1200
38	Sr	1808	1.371	2.6	100
39	Y	1794	0.667	1.51	220

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Element Data

Atomic #	Atomic Symbol	year discovered	rel. abund. solar system	abundance earth's crust (log)	cost, pure (\$/100g)
40	Zr	1789	1.057	2.24	16
41	Nb	1801	-0.156	1.3	18
42	Mo	1781	0.407	0.2	11
43	Tc	1939			
44	Ru	1844	0.270	-3	1400
45	Rh	1803	-0.463	-3	13000
46	Pd	1803	0.143	-2	15
47	Ag		-0.313	-1.2	120
48	Cd	1817	0.207	-0.7	6
49	In	1863	-0.735	-1	120
50	Sn		0.582	0.3	8
51	Sb	1600	-0.510	-0.7	4.5
52	Te	1783	0.682	-3	24
53	I	1811	-0.046	-0.3	8.3
54	Xe	1898	0.672	-4.5	120
55	Cs	1860	-0.429	0	1100
56	Ba	1808	0.652	2.6	55
57	La	1839	-0.351	1.5	64
58	Ce	1803	0.055	1.8	57
59	Pr	1885	-0.778	0.9	170
60	Nd	1885	-0.082	1.4	110
61	Pm	1945		-19.3	
62	Sm	1880	-0.588	0.8	130
63	Eu	1901	-1.012	0.1	3600
64	Gd	1880	-0.481	0.7	191
65	Tb	1843	-1.220	0	1800
66	Dy	1886	-0.404	0.5	210
67	Ho	1879	-1.051	0.1	740
68	Er	1843	-0.601	0.4	270
69	Tm	1879	-1.423	-0.3	4100
70	Yb	1879	-0.606	0.5	530
71	Lu	1907	-1.435	-0.3	6900
72	Hf	1923	-0.812	0.4	120
73	Ta	1802	-1.684	0.3	120
74	W	1783	-0.876	0.2	11
75	Re	1925	-1.287	-2.3	540
76	Os	1804	-0.171	-2.8	7700
77	Ir	1804	-0.180	-3	4200
78	Pt	1748	0.127	-2.3	4700

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Element Data

Atomic #	Atomic Symbol	year discovered	rel. abund. solar system	abundance earth's crust (log)	cost, pure (\$/100g)
79	Au		-0.728	-2.4	4400
80	Hg		-0.469	-1.1	5
81	Tl	1861	-0.735	-0.3	48
82	Pb		0.498	1.1	1.5
83	Bi	1600	-0.842	-0.8	11
84	Po	1898		-9.7	
85	At	1940			
86	Rn	1900		-12.4	
87	Fr	1939			
88	Ra	1898		-6	
89	Ac	1899		-9.3	
90	Th	1829	-1.475	1	
91	Pa	1917		-5.9	
92	U	1789	-2.046	0.4	
93	Np	1940			
94	Pu	1940			
95	Am	1944			
96	Cm	1944			
97	Bk	1949			
98	Cf	1949			
99	Es	1954			
100	Fm	1954			
101	Md	1955			
102	No	1958			
103	Lr	1961			
104	Rf				
105	Db				
106	Sg				
107	Bh				
108	Hs				
109	Mt				
110	Ds				
111	Rg				
112	Cn				
113	Nh				
114	Fl				
115	Mc				
116	Lv				
117	Ts				

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Element Data

Atomic #	Atomic Symbol	year discovered	rel. abund. solar system	abundance earth's crust (log)	cost, pure (\$/100g)
118	Og				

Element Data

Atomic #	Atomic Symbol	cost, bulk (\$/100g)	toxic?	carcinogenic?
1	H			
2	He		no	no
3	Li			
4	Be	59	yes	yes
5	B			
6	C			no
7	N		no	no
8	O		no	no
9	F		yes	no
10	Ne		no	no
11	Na			
12	Mg	0.32		
13	Al	0.12		no
14	Si	0.14		no
15	P		yes	no
16	S			
17	Cl		yes	no
18	Ar		no	no
19	K			
20	Ca			
21	Sc			
22	Ti			
23	V		yes	
24	Cr			
25	Mn			no
26	Fe	0.021		
27	Co			yes
28	Ni	0.76	yes	yes
29	Cu	0.24		no
30	Zn	0.12		no
31	Ga			
32	Ge			
33	As			yes
34	Se		yes	no
35	Br		yes	no
36	Kr		no	no
37	Rb			
38	Sr			
39	Y			no

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Element Data

Atomic #	Atomic Symbol	cost, bulk (\$/100g)	toxic?	carcinogenic?
40	Zr	16		
41	Nb			
42	Mo			no
43	Tc			no
44	Ru			
45	Rh			no
46	Pd	290		
47	Ag	14		no
48	Cd			yes
49	In			no
50	Sn	0.83		no
51	Sb	0.44		no
52	Te		yes	no
53	I		yes	no
54	Xe		no	no
55	Cs			
56	Ba			no
57	La			
58	Ce			
59	Pr			
60	Nd			
61	Pm			
62	Sm			
63	Eu			
64	Gd			
65	Tb			
66	Dy			
67	Ho			
68	Er			
69	Tm			
70	Yb			
71	Lu			
72	Hf			no
73	Ta			no
74	W			no
75	Re			
76	Os			
77	Ir			
78	Pt	1200		no

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Element Data

Atomic #	Atomic Symbol	cost, bulk (\$/100g)	toxic?	carcinogenic?
79	Au	1200		no
80	Hg	0.51	yes	no
81	Tl			no
82	Pb	0.077		no
83	Bi			
84	Po			
85	At			
86	Rn			
87	Fr			
88	Ra			
89	Ac			
90	Th			
91	Pa			
92	U			no
93	Np			
94	Pu			
95	Am			
96	Cm			
97	Bk			
98	Cf			
99	Es			
100	Fm			
101	Md			
102	No			
103	Lr			
104	Rf			
105	Db			
106	Sg			
107	Bh			
108	Hs			
109	Mt			
110	Ds			
111	Rg			
112	Cn			
113	Nh			
114	Fl			
115	Mc			
116	Lv			
117	Ts			

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Element Data

Atomic #	Atomic Symbol	cost, bulk (\$/100g)	toxic?	carcinogenic?
118	Og			

67 Chemical Compounds

Harold Toomey

29-Nov-24

Source:

SI #	Common Name	Chemical Name	Molecular Formula	Bond
1	Baking Soda	Sodium hydrogen carbonate or Sodium bicarbonate	NaHCO ₃	Ionic
2	Baryta	Barium hydroxide	Ba(OH) ₂	Covalent
3	Bleach (laundry)	Sodium hypochlorite	NaOCl	
4	Bleach (solid)	Sodium perborate	NaBO ₃ (anhydrous)	
5	Bleaching powder	Calcium hypochlorite	Ca(OCl) ₂	
6	Blue Vitriol	Copper sulphate pentahydrate	CuSO ₄ .5H ₂ O	
7	Borax	Sodium tetraborate decahydrate	Na ₂ B ₄ O ₇ .10H ₂ O	
8	Brimstone	Sulphur	S	
9	Calomel	Mercurous chloride	HgCl	
10	Carbolic acid	Phenol	C ₆ H ₅ H	
11	Carborundum	Silicon carbide	SiC	
12	Caustic Potash	Potassium hydroxide	KOH	
13	Chile Saltpetre	Sodium nitrate	NaNO ₃	
14	Chloroform	Trichloromethane	CHCl ₃	
15	Cream of Tartar	Potassium hydrogen tartrate	KHC ₄ H ₄ O ₆	
16	Dolomite	Calcium Magnesium carbonate	CaMg(CO ₃) ₂	
17	Dry Ice	Solid Carbon dioxide	CO ₂	
18	Epsom salt	Magnesium sulphate heptahydrate	MgSO ₄ .7H ₂ O	
19	Freon	Dichlorodifluoromethane	CF ₂ Cl ₂	
20	Galena	Lead (II) sulphide	PbS	
21	Glauber's Salt	Sodium Sulphate decahydrate	Na ₂ SO ₄ .10H ₂ O	
22	Glycerine	Trihydroxy propanol	C ₃ H ₈ O ₃	
23	Grain Alcohol	Ethanol	C ₂ H ₅ OH	
24	Graphite/ Plumbago	Carbon	C	
25	Green Vitriol	Ferrous sulphate heptahydrate	FeSO ₄ .7H ₂ O	
26	Gypsum	Calcium sulphate dihydrate	CaSO ₄ .2H ₂ O	
27	Heavy Water	Deuterium Oxide	D ₂ O	
28	Hypo	Sodium Thiosulfate pentahydrate	Na ₂ S ₂ O ₃ . 5H ₂ O	
29	Iron Pyrite (Fool's gold)	Iron disulphide	FeS ₂	
30	Jeweller's Rouge/Red Rouge	Iron(III) Oxide/ Ferric Oxide	Fe ₂ O ₃	
31	Laughing gas	Dinitrogen oxide/Nitrous Oxide	N ₂ O	
32	Lime	Calcium Oxide	CaO	
33	Limestone	Calcium carbonate	CaCO ₃	
34	Litharge	Lead(II) Oxide	PbO	
35	Lunar Caustic	Silver Nitrate	AgNO ₃	
36	Lye/Caustic Soda	Sodium Hydroxide	NaOH	
37	Marble	Calcium carbonate	CaCO ₃	
38	Marsh Gas	Methane	CH ₄	
39	MEK	Methyl ethyl ketone/Butanone	CH ₃ COC ₂ H ₅	
40	Milk of Magnesia	Magnesium hydroxide	Mg(OH) ₂	
41	Mohr's Salt	Ammonium Ferrous Sulphate Hexahydrate	(NH ₄) ₂ Fe(SO ₄) ₂ .6H ₂ O	
42	Muriatic acid	Hydrochloric acid	HCl	
43	Oil of Vitriol	Sulfuric acid	H ₂ SO ₄	
44	Oil of Wintergreen	Methyl salicylate	C ₈ H ₈ O ₃	
45	Phosgene	Carbonyl dichloride	COCl ₂	
46	Plaster of Paris	Calcium sulphate hemi-hydrate	CaSO ₄ .½ H ₂ O	
47	Potash	Potassium carbonate	K ₂ CO ₃	
48	Potash Alum	Potassium Aluminium sulphate dodecahydrate	AlK(SO ₄) ₂ .12H ₂ O	
49	Quartz	Silicon dioxide	SiO ₂	
50	Quicksilver	Mercury	Hg	

51	Rochelle Salt	Potassium Sodium Tartrate	$\text{KNaC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$	
52	Rock Salt	Sodium Chloride	NaCl	
53	Rubbing Alcohol	Isopropyl alcohol	$\text{CH}_3\text{CHOHCH}_3$	
54	Sal Ammoniac (नौसादर)	Ammonium chloride	NH_4Cl	
55	Salt (Table Salt)	Sodium chloride	NaCl	
56	Salt Substitute	Potassium chloride	KCl	
57	Saltpetre	Potassium nitrate	KNO_3	
58	Slaked Lime	Calcium hydroxide	Ca(OH)_2	
59	Sugar	Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	
60	TNT	Trinitrotoluene	$\text{C}_6\text{H}_2(\text{NO}_2)_3\text{CH}_3$	
61	TSP trisodium phosphate	Sodium Phosphate	Na_3PO_4	
62	Vermillion/Cinnabar	Mercuric sulphide	HgS	
63	Washing Soda	Sodium carbonate decahydrate	$\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$	
64	White Vitriol	Zinc sulphate heptahydrate	$\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$	
65	Wood alcohol	Methyl alcohol	CH_3OH	
66	Brine	Aqueous Sodium Chloride	NaCl(aq)	
67	Vinegar/Glaciard Acid	Acetic Acid	CH_3COOH	

205 Chemical Compounds

Harold Toomey

29-Nov-24

Source:

<https://sciencenotes.org/chemical-common-names-and-formulas/>

SI #	Common Name	Chemical Name	Molecular Formula
1	acetic acid	ethanoic acid (usually known as acetic acid)	CH ₃ CO ₂ H
2	acetone	dimethyl ketone; 2-propanone (usually known as acetone)	(CH ₃) ₂ CO
3	acid potassium sulfate	potassium bisulfate	KHSO ₄
4	acid of sugar	oxalic acid	C ₂ H ₂ O ₄
5	ackey	nitric acid	HNO ₃
6	alkali volatil	ammonium hydroxide	NH ₄ OH
7	alcohol, grain	ethyl alcohol	C ₂ H ₆ O
8	alcohol sulfuris	carbon disulfide	CS ₂
9	alcohol, wood	methyl alcohol	CH ₃ OH
10	alum	aluminum potassium sulfate	KAl(SO ₄) ₂ ·12H ₂ O
11	alumina	aluminum oxide	Al ₂ O ₃
12	antichlor	sodium thiosulfate	Na ₂ S ₂ O ₃
13	antifreeze	ethylene glycol	(CH ₂ OH) ₂
14	antimony black	antimony trisulfide	Sb ₂ S ₃
15	antimony bloom	antimony trioxide	Sb ₂ O ₃
16	antimony glance	antimony trisulfide	Sb ₂ S ₃
17	antimony red (vermillion)	antimony oxysulfide	Sb ₂ OS ₂
18	aqua ammonia	aqueous solution of ammonium hydroxide	[NH ₄ ⁺][OH ⁻]
19	aqua fortis	nitric acid	HNO ₃
20	aqua regia	nitrohydrochloric acid	HNO ₃ +3 HCl
21	aromatic spirit of ammonia	ammonia in alcohol	(NH ₄) ₂ CO ₃
22	arsenic glass	arsenic trioxide	As ₂ O ₃
23	azurite	mineral form of basic copper carbonate	Cu ₃ (CO ₃) ₂ (OH) ₂
24	asbestos	magnesium silicate	Mg ₃ Si ₄ O ₁₀ (OH) ₂
25	aspirin	acetylsalicylic acid	C ₉ H ₈ O ₄
26	baking soda	sodium bicarbonate	NaHCO ₃
27	banana oil (artificial)	isoamyl acetate	C ₇ H ₁₄ O ₂
28	barium white	barium sulfate	BaSO ₄
29	benzol	benzene	C ₆ H ₆
30	bicarbonate of soda	sodium hydrogen carbonate or sodium bicarbonate	NaHCO ₃
31	bichloride of mercury	mercuric chloride	HgCl ₂
32	bichrome	potassium dichromate	K ₂ Cr ₂ O ₇
33	bitter salt	magnesium sulfate	MgSO ₄
34	black ash	crude form of sodium carbonate	Na ₂ CO ₃
35	black copper oxide	cupric oxide	CuO
36	black lead	graphite (carbon)	C
37	blanc-fixe	barium sulfate	BaSO ₄
38	bleaching powder	chlorinated lime; calcium hypochlorite	Ca(ClO) ₂

39	blue copperas	copper sulfate (crystals)	Cu_2SO_4
40	blue lead	lead sulfate	PbSO_4
41	blue salts	nickel sulfate	NiSO_4
42	blue stone	copper sulfate (crystals)	Cu_2SO_4
43	blue vitriol	copper sulfate	Cu_2SO_4
44	bluestone	copper sulfate	Cu_2SO_4
45	bone ash	crude calcium phosphate	$\text{Ca}_3(\text{PO}_4)_2$
46	bone black	crude animal charcoal	C
47	boracic acid	boric acid	BH_3O_3
48	borax	sodium borate; sodium tetraborate	$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$
49	bremen blue	basic copper carbonate	CuCO_3
50	brimstone	sulfur	S
51	burnt alum	anhydrous potassium aluminum sulfate	$\text{KAl}(\text{SO}_4)_2$
52	burnt lime	calcium oxide	CaO
53	burnt ochre	ferric oxide, iron(III) oxide	Fe_2O_3
54	burnt ore	ferric oxide , iron(III) oxide	Fe_2O_3
55	brine	aqueous sodium chloride solution	NaCl in water
56	butter of antimony	antimony trichloride	SbCl_3
57	butter of tin	anhydrous stannic chloride	SnCl_4
58	butter of zinc	zinc chloride	ZnCl_2
59	calomel	mercury chloride; mercurous chloride	Hg_2Cl_2
60	carbolic acid	phenol	$\text{C}_6\text{H}_6\text{O}$
61	carbonic acid gas	carbon dioxide	CO_2
62	caustic lime	calcium hydroxide	$\text{Ca}(\text{OH})_2$
63	caustic potash	potassium hydroxide	KOH
64	caustic soda	sodium hydroxide	NaOH
65	chalk	calcium carbonate	CaCO_3
66	Chile saltpeter	sodium nitrate	NaNO_3
67	Chile nitre	sodium nitrate	NaNO_3
68	Chinese red	basic lead chromate	PbCrO_4
69	Chinese white	zinc oxide	ZnO
70	chloride of soda	sodium hypochlorite	NaOCl
71	chloride of lime	calcium hypochlorite	$\text{Ca}(\text{ClO})_2$
72	chrome alum	chromic potassium sulfate	$\text{KCr}(\text{SO}_4)_2$
73	chrome green	chromium(III) oxide	Cr_2O_3
74	chrome yellow	lead(II) chromate	PbCrO_4
75	chromic acid	chromium trioxide	H_2CrO_4 or $\text{H}_2\text{Cr}_2\text{O}_7$
76	copperas	ferrous sulfate, iron(II) sulfate	FeSO_4
77	corrosive sublimate	mercury (II) chloride	HgCl_2
78	corundum (ruby, sapphire)	chiefly aluminum oxide	Al_2O_3
79	cream of tartar	potassium bitartrate	$\text{KC}_4\text{H}_5\text{O}_6$
80	crocus powder	ferric oxide, iron(III) oxide	Fe_2O_3
81	crystal carbonate	sodium carbonate	Na_2CO_3
82	dechlor	sodium thiophosphate	$\text{Na}_3\text{PS}_2\text{O}_2$
83	diamond	carbon crystal	C
84	emery powder	impure aluminum oxide	Al_2O_3

85	Epsom salt	magnesium sulfate	MgSO ₄
86	ethanol	ethyl alcohol	C ₂ H ₆ O
87	farina	starch	(C ₆ H ₁₀ O ₅) _n · (H ₂ O)
88	ferro prussiate	potassium ferricyanide	K ₃ [Fe(CN) ₆]
89	ferrum	iron	Fe
90	flores martis	anhydride iron (III) chloride	FeCl ₃
91	fluorspar	natural calcium fluoride	CaF ₂
92	fixed white	barium sulfate	BaSO ₄
93	flowers of sulfur	sulfur	S
94	'flowers of' any metal	oxide of the metal	XO
95	formalin	aqueous formaldehyde solution	CH ₂ O
96	French chalk	natural magnesium silicate	Mg ₃ Si ₄ O ₁₀ (OH) ₂
97	French vergidris	basic copper acetate	Cu(CH ₃ COO) ₂
98	galena	natural lead sulfide	PbS
99	Glauber's salt	sodium sulfate	Na ₂ SO ₄
100	green verditer	basic copper carbonate	Cu ₂ CO ₃ (OH) ₂
101	green vitriol	ferrous sulfate crystals, iron(II) sulfate	FeSO ₄
102	gypsum	natural calcium sulfate	CaSO ₄
103	hard oil	boiled linseed oil	mostly α-linolenic acid, C ₁₈ H ₃₀ O ₂
104	heavy spar	barium sulfate	BaSO ₄
105	hydrocyanic acid	hydrogen cyanide	HCN
106	hypo (photography)	sodium thiosulfate solution	Na ₂ S ₂ O ₃ · 5H ₂ O
107	Indian red	ferric oxide, iron (III) oxide	Fe ₂ O ₃
108	Isinglass	agar-agar gelatin	mostly collagen
109	jeweler's rouge	ferric oxide, iron(III) oxide	Fe ₂ O ₃
110	killed spirits	zinc chloride	ZnCl ₂
111	lampblack	crude form of carbon; charcoal	C
112	laughing gas	nitrous oxide	N ₂ O
113	lead peroxide	lead dioxide, lead(IV) oxide	PbO ₂
114	lead protoxide	lead monoxide	PbO
115	lime	calcium oxide	CaO
116	lime, slaked	calcium hydroxide	Ca(OH) ₂
117	limewater	aqueous solution of calcium hydroxide	Ca(OH) ₂
118	liquor ammonia	ammonium hydroxide solution	NH ₄ OH
119	litharge	lead monoxide	PbO
120	lunar caustic	silver nitrate	AgNO ₃
121	liver of sulfur	sulfurated potash	mixture of potassium sulfides
122	lye or soda lye	sodium hydroxide	NaOH
123	magnesia	magnesium oxide	MgO
124	manganese black	manganese and iron dioxide	(Fe,Mn) ₃ O ₄
125	marble	mainly calcium carbonate	CaCO ₃
126	mercury oxide, black	mercurous oxide, mercury(I) oxide	Hg ₂ O
127	methanol	methyl alcohol	CH ₃ OH
128	methyated spirits	methyl alcohol	CH ₃ OH
129	milk of lime	calcium hydroxide	Ca(OH) ₂
130	milk of magnesium	magnesium hydroxide	Mg(OH) ₂

131	milk of sulfur	precipitated sulfur	S
132	“muriate” of a metal	chloride of the metal	XCl
133	muriatic acid	hydrochloric acid	HCl
134	natron	sodium carbonate	Na ₂ CO ₃
135	nitre	potassium nitrate	KNO ₃
136	nordhausen acid	fuming sulfuric acid	H ₂ SO ₄
137	oil of mars	deliquescent anhydrous iron (III) chloride	FeCl ₃
138	oil of vitriol	sulfuric acid	H ₂ SO ₄
139	oil of wintergreen (artificial)	methyl salicylate	C ₈ H ₈ O ₃
140	orthophosphoric acid	phosphoric acid	H ₃ PO ₄
141	Paris blue	ferric ferrocyanide	C ₁₈ Fe ₇ N ₁₈
142	Paris green	copper acetoarsenite	Cu(C ₂ H ₃ O ₂) ₂ ·3Cu(AsO ₂) ₂
143	Paris white	powdered calcium carbonate	CaCO ₃
144	pear oil (artificial)	isoamyl acetate	C ₇ H ₁₄ O ₂
145	pearl ash	potassium carbonate	K ₂ CO ₃
146	permanent white	barium sulfate	BaSO ₄
147	plaster of Paris	calcium sulfate	CaSO ₄
148	plumbago	graphite	C
149	potash	potassium carbonate	K ₂ CO ₃
150	potassa	potassium hydroxide	KOH
151	precipitated chalk	calcium carbonate	CaCO ₃
152	Prussic acid	hydrogen cyanide	HCN
153	pyro	tetrasodium pyrophosphate	Na ₄ P ₂ O ₇
154	quicklime	calcium oxide	CaO
155	quicksilver	mercury	Hg
156	red lead	lead tetraoxide,	Pb ₃ O ₄
157		lead(II,IV) oxide	
158	red liquor	aluminum acetate solution	HOAl(CH ₃ CO ₂) ₂
159	red prussiate of potash	potassium ferrocyanide	K ₄ [Fe(CN) ₆]
160	red prussiate of soda	sodium ferrocyanide	Na ₄ [Fe(CN) ₆]
161	Rochelle salt	potassium sodium tartrate tetrahydrate	KNaC ₄ H ₄ O ₆ ·4H ₂ O
162	rock salt	sodium chloride	NaCl
163	rouge, jeweler’s	ferric oxide	Fe ₂ O ₃
164	rubbing alcohol	isopropyl alcohol	C ₃ H ₈ O
165	sal ammoniac	ammonium chloride	NH ₄ Cl
166	sal soda	sodium carbonate	Na ₂ CO ₃
167	salt, table	sodium chloride	NaCl
168	salt of lemon	potassium binoxalate	KHC ₂ O ₄
169	salt of tartar	potassium carbonate	K ₂ CO ₃
170	saltpeter	potassium nitrate	KNO ₃
171	silica	silicon dioxide	SiO ₂
172	slaked lime	calcium hydroxide	Ca(OH) ₂
173	soda ash	sodium carbonate	Na ₂ CO ₃
174	soda nitre	sodium nitrate	NaNO ₃
175	soda lye	sodium hydroxide	NaOH
176	soluble glass	sodium silicate	Na ₂ SiO ₃
177	sour water	dilute sulfuric acid	H ₂ SO ₄

178	spirit of hartshorn	ammonium hydroxide solution	$[\text{NH}_4^+][\text{OH}^-]$
179	spirit of salt	hydrochloric acid	HCl
180	spirit of wine	ethyl alcohol	$\text{C}_2\text{H}_6\text{O}$
181	spirits of nitrous ether	ethyl nitrate	$\text{C}_2\text{H}_5\text{NO}_3$
182	sugar, table	sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$
183	sugar of lead	lead acetate	$\text{Pb}(\text{CH}_3\text{COO})_2$
184	sulfuric ether	ethyl ether	$\text{C}_4\text{H}_{10}\text{O}$
185	talc or talcum	magnesium silicate	$\text{Mg}_3\text{Si}_4\text{O}_{10}(\text{OH})_2$
186	tin crystals	stannous chloride	SnCl_2
187	trona	natural sodium carbonate	Na_2CO_3
188	unslaked lime	calcium oxide	CaO
189	Venetian red	ferric oxide,	Fe_2O_3
190		iron(III) oxide	
191	verdigris	basic copper acetate	$\text{Cu}(\text{CH}_3\text{COO})_2$
192	Vienna lime	calcium carbonate	CaCO_3
193	vinegar	impure dilute acetic acid	CH_3COOH
194	vitamin C	ascorbic acid	$\text{C}_6\text{H}_8\text{O}_6$
195	vitriol	sulfuric acid	H_2SO_4
196	washing soda	sodium carbonate	Na_2CO_3
197	water	dihydrogen monoxide	H_2O
198	water glass	sodium silicate	Na_2SiO_3
199	white caustic	sodium hydroxide	NaOH
200	white lead	basic lead carbonate	PbCO_3
201	white vitriol	zinc sulfate crystals	ZnSO_4
202	yellow prussiate of potash	potassium ferrocyanide	$\text{K}_4[\text{Fe}(\text{CN})_6]$
203	yellow prussiate of soda	sodium ferrocyanide	$\text{Na}_4[\text{Fe}(\text{CN})_6]$
204	zinc vitriol	zinc sulfate	ZnSO_4
205	zinc white	zinc oxide	ZnO

320 Chemical Compounds

Harold Toomey

29-Nov-24

Source:

<https://entri.app/blog/list-of-chemical-compound>

SI #	Chemical Name	Molecular Formula	Molecular Weight (g/mol)
1	Acetic acid	CH ₃ COOH	60.052
2	Hydrochloric acid	HCl	36.458
3	Sulfuric acid	H ₂ SO ₄	98.072
4	Acetate	CH ₃ COO ⁻	59.044
5	Ammonia	NH ₃	17.031
6	Nitric acid	HNO ₃	63.012
7	Phosphoric acid	H ₃ PO ₄	97.994
8	Sodium phosphate	Na ₃ PO ₄	119.976
9	Calcium carbonate	CaCO ₃	100.086
10	Ammonium sulfate	(NH ₄) ₂ SO ₄	132.134
11	Carbonic acid	H ₂ CO ₃	62.024
12	Sodium bicarbonate	NaHCO ₃	84.0066
13	Sodium hydroxide	NaOH	39.997
14	Calcium hydroxide	Ca(OH) ₂	74.092
15	Ethanol	C ₂ H ₅ OH	46.069
16	Hydrobromic acid	HBr	80.912
17	Sulfuric acid	H ₂ SO ₄	98.072
18	Nitrous acid	HNO ₂	47.013
19	Potassium hydroxide	KOH	56.11
20	Silver nitrate	AgNO ₃	169.872
21	Sodium carbonate	Na ₂ CO ₃	105.988
22	Sodium chloride	NaCl	58.44
23	Cellulose	(C ₆ H ₁₀ O ₅) _n	162.1406
24	Magnesium hydroxide	Mg(OH) ₂	58.319
25	Methane	CH ₄	16.043
26	Nitrogen dioxide	NO ₂	30.006
27	Potassium hydroxide	KOH	56.105
28	Sodium nitrate	NaNO ₃	84.994
29	Sulfurous acid	H ₂ SO ₃	82.073

30	Aluminium sulfate	$\text{Al}_2(\text{SO}_4)_3$	342.15
31	Aluminum oxide	Al_2O_3	101.96
32	Ammonia	NH_3	17.031
33	Ammonium nitrate	NH_4NO_3	80.043
34	Ammonium phosphate	$(\text{NH}_4)_3\text{PO}_4$	132.056
35	Barium hydroxide	$\text{Ba}(\text{OH})_2$	171.341
36	Carbon tetrachloride	CCl_4	153.811
37	Citric acid	$\text{C}_6\text{H}_8\text{O}_7$	192.123
38	Hydrocyanic acid	HCN	27.026
39	Salicylic Acid	$\text{C}_7\text{H}_6\text{O}_3$	138.121
40	Hydroiodic acid	HI	127.91
41	Hypochlorous acid	HClO	52.457
42	Iron iii oxide	Fe_2O_3	159.687
43	Magnesium phosphate	$\text{Mg}_3(\text{PO}_4)_2$	262.855
44	Sodium acetate	$\text{C}_2\text{H}_3\text{NaO}_2$	82.0343
45	Sodium sulfate	Na_2SO_4	142.036
46	Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	342.2965
47	Potassium nitrate	KNO_3	101.102
48	Ammonium bicarbonate	NH_4HCO_3	96.086
49	Ammonium chloride	NH_4Cl	53.489
50	Ammonium hydroxide	NH_4OH	35.046
51	Calcium nitrate	$\text{Ca}(\text{NO}_3)_2$	164.088
52	Calcium oxide	CaO	56.0774
53	Carbon monoxide	CO	28.01
54	Chlorine gas	Cl_2	70.9
55	Phenol	$\text{C}_6\text{H}_5\text{OH}$	94.11
56	Hydrogen peroxide	H_2O_2	34.0147
57	Hydroxide	OH^-	17.007
58	Magnesium chloride	MgCl_2	95.211
59	Magnesium hydroxide	$\text{Mg}(\text{OH})_2$	58.3197
60	Potassium chloride	KCl	74.5513
61	Potassium iodide	KI	166.0028
62	Sulfur dioxide	SO_2	64.066
63	Glycerin	$\text{C}_3\text{H}_8\text{O}_3$	92.09
64	Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	132.14

65	Barium nitrate	$\text{Ba}(\text{NO}_3)_2$	261.337
66	Calcium acetate	$\text{C}_4\text{H}_6\text{O}_4\text{Ca}$	158.17
67	Sulfurous Acid	H_2SO_3	82.07
68	Iron oxide	Fe_2O_3	159.69
69	Potassium carbonate	K_2CO_3	138.205
70	Silver chloride	AgCl	143.318
71	Sodium iodide	NaI	149.894
72	Sodium oxide	Na_2O	61.9789
73	Sodium sulfide	Na_2S	78.0452
74	Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	342.3
75	Zinc nitrate	$\text{Zn}(\text{NO}_3)_2$	189.388
76	Aluminium Sulfate	$\text{Al}_2(\text{SO}_4)_3$	342.15
77	Phenolphthalein	$\text{C}_{20}\text{H}_{14}\text{O}_4$	318.32
78	Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	148.313
79	Silicon dioxide	SiO_2	60.083
80	Acetone	$\text{C}_3\text{H}_6\text{O}$	58.08
81	Hydroquinone	$\text{C}_6\text{H}_6\text{O}_2$	110.11
82	Pyridine	$\text{C}_5\text{H}_5\text{N}$	79.1
83	Ammonium acetate	$\text{C}_2\text{H}_3\text{O}_2\text{NH}_4$	77.083
84	Xylene	C_8H_{10}	106.16
85	Barium sulfate	BaSO_4	233.38
86	Benzene	C_6H_6	78.11
87	Bicarbonate	CHO_3^-	61.016
88	Chromate	CrO_4^{2-}	15.992
89	Methyl Ethyl Ketone	$\text{C}_4\text{H}_8\text{O}$	72.107
90	Cyanide	CN^-	26.02
91	Trichloroacetic acid	$\text{C}_2\text{HCl}_3\text{O}_2$	163.38
92	Magnesium sulfate	MgSO_4	120.361
93	Methanol	CH_3OH	32.04
94	Nitrogen dioxide	NO_2	46.0055
95	Oxygen	O	Atomic mass 15.999
96	Methylene blue	$\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}$	319.85
97	Sodium sulfite	Na_2SO_3	126.043
98	Sulfur trioxide	SO_3	80.057

99	Aluminum phosphate	AlPO_4	121.951
100	Stearic acid	$\text{C}_{18}\text{H}_{36}\text{O}_2$	284.484
101	Dinitrogen monoxide	N_2O	44.013
102	Carbon monoxide	CO	28.01
103	Carbonic acid	H_2CO_3	62.03
104	Sodium carbonate	Na_2CO_3	105.9888
105	Titanium dioxide	TiO_2	233.38
106	Acetonitrile	$\text{C}_2\text{H}_3\text{N}$	41.053
107	Oxalic acid	$\text{H}_2\text{C}_2\text{O}_4$	90.03
108	Potassium dichromate	$\text{K}_2\text{Cr}_2\text{O}_7$	294.185
109	Salicylic acid	$\text{C}_7\text{H}_6\text{O}_3$	138.121
110	Sodium bromide	NaBr	102.894
111	Sodium hypochlorite	NaClO	74.439
112	Zinc acetate	$\text{Zn}(\text{CH}_3\text{COO})_2(\text{H}_2\text{O})_2$	183.48
113	Zinc chloride	ZnCl_2	136.286
114	Zinc hydroxide	$\text{Zn}(\text{OH})_2$	99.424
115	Magnesium carbonate	MgCO_3	84.313
116	Potassium chlorate	KClO_3	122.545
117	Hydrazine	N_2H_4	32.0452
118	Ascorbic acid	$\text{C}_6\text{H}_8\text{O}_6$	176.12
119	Benzoic acid	$\text{C}_7\text{H}_6\text{O}_2$	122.12
120	Resorcinol	$\text{C}_6\text{H}_6\text{O}_2$	110.1
121	Chlorine	Cl_2	70.9
122	Ammonium nitrate	NH_4NO_3	80.043
123	Ammonium phosphate	$(\text{NH}_4)_3\text{PO}_4$	132.056
124	Carbon tetrachloride	CCl_4	153.82
125	Nitrous acid	HNO_2	47.013
126	Maleic acid	$\text{C}_4\text{H}_4\text{O}_4$	116.072
129	Sodium metabisulfite	$\text{Na}_2\text{S}_2\text{O}_5$	190.107
130	Sodium Hypochlorite	NaClO	74.439
131	Acetamide	$\text{C}_2\text{H}_5\text{NO}$	59.068
132	Magnesium carbonate	MgCO_3	84.3139
133	Sodium silicate	$(\text{Na}_2\text{O})_x \cdot \text{SiO}_2$	122.062
134	Nitrite	NO_2^-	46.005
135	Hydroxide	OH^-	17.007

136	Phosphate	PO_4^{3-}	94.9714
137	Dichloromethane	CH_2Cl_2	84.93
138	Carbon Disulfide	CS_2	76.13
139	Potassium chromate	CrK_2O_4	194.189
140	Zinc sulfate	ZnSO_4	161.436
141	Iodine	I	Atomic mass 126.90
142	Tannic acid	$\text{C}_{76}\text{H}_{52}\text{O}_{46}$	1701.19
143	Aluminum	Al	26.982
144	Perchloric acid	HClO_4	100.46
145	Hypochlorite	ClO^-	51.449
146	Citric acid	$\text{C}_6\text{H}_8\text{O}_7$	192.124
147	Potassium Bromide	KBr	119.002
148	Chromic acid	H_2CrO_4	118.01
149	Dihydrogen monoxide	OH_2	18.01528
150	Methyl acetate	$\text{C}_3\text{H}_6\text{O}_2$	74.079
151	Dimethyl sulfoxide	$\text{C}_2\text{H}_6\text{OS}$	78.13
152	Hexane	C_6H_{14}	86.18
153	Phosphoric acid	H_3PO_4	97.994
154	Eugenol	$\text{C}_{10}\text{H}_{12}\text{O}_2$	164.2
155	Manganese dioxide	MnO_2	86.9368
156	Dimethyl sulfoxide	$\text{C}_2\text{H}_6\text{OS}$	78.13
157	Lactic acid	$\text{C}_3\text{H}_6\text{O}_3$	90.078
158	Sodium potassium tartrate	$\text{C}_4\text{H}_4\text{O}_6\text{KNa}\cdot 4\text{H}_2\text{O}$	282.1
159	Hexamine	$\text{C}_6\text{H}_{12}\text{N}_4$	140.186
160	Lithium hydroxide	LiOH	23.95
161	Dimethyl sulfoxide	$\text{C}_2\text{H}_6\text{OS}$	78.13
162	Phosphorus pentachloride	PCl_5	208.24
163	Potassium oxide	K_2O	94.2
164	Potassium phosphate	KH_2PO_4	136.084
165	Silver acetate	$\text{AgC}_2\text{H}_3\text{O}_2$	166.91
166	Sodium citrate	$\text{Na}_3\text{C}_6\text{H}_5\text{O}_7$	258.06
167	Sodium fluoride	NaF	41.98817
168	Sodium nitrite	NaNO_2	68.9953
169	Sulfate ion	SO_4^{2-}	96.06

170	Barium carbonate	BaCO ₃	197.34
171	Calcium iodide	CaI ₂	293.887
172	Hydrogen sulfate	HSO ₄ ⁻	97.064
173	Lithium oxide	Li ₂ O	29.88
174	Dimethylglyoxime	C ₄ H ₈ N ₂ O ₂	116.12
175	Permanganate	KMnO ₄	158.034
176	Silver phosphate	Ag ₃ PO ₄	418.58
177	Sodium carbonate	Na ₂ CO ₃	105.9888
178	Ammonium bromide	NH ₄ Br	97.943
179	Calcium phosphate	Ca ₃ (PO ₄) ₂	310.18
180	Dichromate	K ₂ Cr ₂ O ₇	294.185
181	Aluminum sulfide	Al ₂ S ₃	150.158
182	Ammonium carbonate	(NH ₄) ₂ CO ₃	96.086
183	Barium chloride	BaCl ₂	208.23
184	Calcium nitrate	Ca(NO ₃) ₂	164.088
185	Hydroiodic acid	HI	127.91
186	Nitrogen monoxide	NO	30.006
187	Potassium carbonate	K ₂ CO ₃	138.205
188	Potassium iodide	KI	166.0028
189	Potassium nitrate	KNO ₃	101.102
190	Sodium oxide	Na ₂ O	61.9789
191	Fructose	C ₆ H ₁₂ O ₆	180.16
192	Magnesium iodide	MgI ₂	278.1139
193	Magnesium sulfide	MgS	56.38
194	Ozone	O ₃	48
195	Potassium cyanide	KCN	65.12
196	Silver oxide	Ag ₂ O	231.735
197	Sodium chromate	Na ₂ CrO ₄	161.97
198	Sodium peroxide	Na ₂ O ₂	77.98
199	Toluene	C ₇ H ₈	92.14
200	Zinc carbonate	ZnCO ₃	125.388
201	Zinc phosphate	Zn ₃ (PO ₄) ₂	386.11
202	Zinc sulfide	ZnS	97.474
203	Para dichlorobenzene	C ₆ H ₄ Cl ₂	147.01
204	Boric acid	H ₃ BO ₃	61.83

206	Magnesium phosphate	$\text{Mg}_3(\text{PO}_4)_2$	262.855
207	Oxalate	$\text{C}_2\text{O}_4^{2-}$	88.018
208	Potassium bicarbonate	KHCO_3	100.114
209	Potassium hypochlorite	KClO	90.55
210	Potassium nitrite	KNO_2	85.103
211	Bromothymol Blue	$\text{C}_{27}\text{H}_{28}\text{Br}_2\text{O}_5\text{S}$	624.384
212	Ammonium iodide	NH_4I	144.94
213	Ammonium nitrate	$(\text{NH}_4)(\text{NO}_3)$	80.043
214	Ammonium nitrite	NH_4NO_2	64.06
215	Ammonium oxide	$(\text{NH}_4)_2\text{O}$	52.0763
216	Argon gas	Ar	39.948
217	Barium bromide	BaBr_2	297.14
218	Barium iodide	BaI_2	391.136
219	Bromate	BrO_3^-	127.901
220	Dinitrogen trioxide	N_2O_3	76.01
221	Ethylene glycol	$\text{C}_2\text{H}_6\text{O}_2$	62.07
222	Hypochlorous acid	HClO	52.46
223	Nickel sulfate	NiSO_4	154.75
224	Helium	He	atomic mass 4.002602 u
225	Iodide	I	253.809
226	Lead ii acetate	$\text{Pb}(\text{C}_2\text{H}_3\text{O}_2)_2$	325.29
227	Lithium chloride	LiCl	42.394
228	Phosphate ion	PO_4^{3-}	94.9714
229	Potassium fluoride	KF	58.0967
230	Potassium sulfite	K_2SO_3	158.26
231	Silver carbonate	Ag_2CO_3	275.7453
232	Sodium cyanide	NaCN	49.0072
233	Sodium nitride	Na_3N	82.976
234	Strontium chloride	SrCl_2	158.52
235	Strontium nitrate	$\text{Sr}(\text{NO}_3)_2$	211.628
236	Urea	$\text{CH}_4\text{N}_2\text{O}$	60.056
237	Bleach	NaClO	74.439
238	Carbonic acid	H_2CO_3	62.03
239	Lithium bromide	LiBr	86.844
240	Aluminum fluoride	AlF_3	83.9767
241	Barium fluoride	BaF_2	175.34

242	Butanoic acid	$C_4H_8O_2$	88.11
243	Calcium hydride	CaH_2	42.094
245	Copper ii carbonate	$CuCO_3$	123.55
246	Ethanol	CH_3CH_2OH	46.07
247	Fluorine	F	18.998403 u
248	Lithium phosphate	Li_3PO_4	115.79
249	Glycerol	$C_3H_8O_3$	92.09382
250	Hypobromous acid	HBrO	96.911
251	Hypoiodous acid	HIO	143.89
252	Lead iodide	PbI_2	461.01
253	Lithium iodide	LiI	133.844
254	Magnesium oxide	MgO	40.3044
255	Urethane	$C_3H_7NO_2$	89.09
256	Nickel nitrate	$Ni(NO_3)_2$	182.703
257	Potassium chloride	KCl	74.5513
258	Potassium nitrate	KNO_3	101.102
259	Sodium dichromate	$Na_2Cr_2O_7$	261.97
260	Sodium nitrate	$NaNO_3$	84.994
261	Tartaric acid	$C_4H_6O_6$	150.087
262	Zinc iodide	ZnI_2	319.22
263	Bromine	Br	54.938
264	Aluminum bromide	$AlBr_3$	266.69
265	Sodium Percarbonate	$C_2H_6Na_4O_{12}$	157.01
267	Nickel acetate	$C_4H_8O_4Ni$	178.797
268	Sodium Thiosulfate	$Na_2S_2O_3$	158.11
269	Acetaldehyde	C_2H_4O	44.05
270	Copper sulfate	$CuSO_4$	159.609
271	Mannitol	$C_6H_{14}O_6$	182.172
272	Calcium Chloride	$CaCl_2$	110.98
273	Hydrocyanic acid	HCN	27.0253
274	Monosodium Glutamate	$C_5H_8NO_4Na$	169.111
275	Polystyrene	$(C_8H_8)_n$	104.1
276	Calcium Carbide	CaC_2	64.099
277	Tetrachloroethylene	C_2Cl_4	165.83
278	Sodium Chlorate	$NaClO_3$	106.44
279	Potassium Iodate	KIO_3	214.001

280	Sodium Percarbonate	$\text{C}_2\text{H}_6\text{Na}_4\text{O}_{12}$	157.01
281	Lead Acetate	$\text{Pb}(\text{C}_2\text{H}_3\text{O}_2)_2$	325.29
282	Potassium Thiocyanate	KSCN	97.181
283	Butane	C_4H_{10}	58.12
284	Maltose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	342.3
285	Polyurethane Foam	$\text{C}_{27}\text{H}_{36}\text{N}_2\text{O}_{10}$	548.589
286	Formaldehyde	CH_2O	30.031
287	Formic Acid	HCOOH	46.03
288	Sulfur Hexafluoride	SF_6	146.06
289	Phosphorus Trichloride	PCl_3	137.33
290	Ethane	C_2H_6	30.07
291	Dinitrogen Pentoxide	N_2O_5	30.07
292	Phosphorous Acid	H_3PO_3	82
293	Potassium Ferrocyanide	$\text{K}_4\text{Fe}(\text{CN})_6$	368.35
294	Xenon Difluoride	XeF_2	169.29
295	Diatomic Bromine	Br_2	159.808
296	Phenyl	C_6H_5	77.106
297	Phosphorus Triiodide	PI_3	411.6872
298	Peroxydisulfuric Acid	$\text{H}_2\text{S}_2\text{O}_8$	194.14
299	Monopotassium Phosphate	KH_2PO_4	136.086
300	Dipotassium Phosphate	K_2HPO_4	174.2
301	Aluminium hydroxide	$\text{Al}(\text{OH})_3$	78
302	Ammonium persulfate	$(\text{NH}_4)_2\text{S}_2\text{O}_8$	228.18
303	Sodium borate	$\text{Na}_2[\text{B}_4\text{O}_5(\text{OH})_4] \cdot 8\text{H}_2\text{O}$	201.22
304	Chloroacetic acid	$\text{C}_2\text{H}_3\text{O}_2\text{Cl}$	94.49
305	Potassium acetate	$\text{CH}_3\text{CO}_2\text{K}$	98.142
306	Barium oxide	BaO	153.326
307	Copper(I) Oxide	Cu_2O	143.09
308	Lithium Bromide	LiBr	86.845
309	Copper Hydroxide	$\text{Cu}(\text{OH})_2$	97.561
310	Tin Oxide	SnO_2	97.561
311	Chlorine Trifluoride	ClF_3	92.448
312	Ethylene	C_2H_4	28.054
313	Acetylene	C_2H_2	26.038
314	Chromic Oxide	Cr_2O_3	151.9904

315	Sodium bisulfate	NaHSO_4	120.06
316	Copper (II) chloride	CuCl_2	134.45
317	Mercuric chloride	HgCl_2	271.52
318	Tin (II) chloride	SnCl_2	189.6
319	Propane	C_3H_8	44.097
320	Lead (IV) oxide	PbO_2	239.1988

2079 Chemical Compounds

Harold Toomey

29-Nov-24

Sources:

https://en.wikipedia.org/wiki/Dictionary_of_chemical_formulas

https://en.wikipedia.org/wiki/Glossary_of_chemical_formulae

https://en.wikipedia.org/wiki/List_of_CAS_numbers_by_chemic

Molecular Formula	Chemical Name	CAS #
Ac ₂ O ₃	actinium(III) oxide	
AgBF ₄	silver tetrafluoroborate	14104-20-2
AgBr	silver bromide	7785-23-1
AgBrO ₃	silver bromate	7783-89-3
AgCl	silver chloride	7783-90-6
AgCl ₃ Cu ₂		
AgClO ₃		
AgClO ₄	silver perchlorate	7783-93-9
AgCN	silver cyanide	506-64-9
AgF	silver fluoride	7775-41-9
AgF ₂	silver difluoride	7775-41-9
AgI	silver iodide	7783-96-2
AgIO ₃	silver iodate	7783-97-3
AgMnO ₄	silver permanganate	7783-98-4
AgN ₃	silver azide	13863-88-2
AgNO ₃	silver nitrate	7761-88-8
Ag ₂ O	silver oxide	1301-96-8
AgO	silver monoxide	
AgONC	silver fulminate	5610-59-3
AgPF ₆	silver hexafluorophosphate	26042-63-7
AgSNC	silver thiocyanate	1701-93-5
Ag ₂ C ₂	silver acetylide	7659-31-6
Ag ₂ CO ₃	silver(I) carbonate	534-16-7
Ag ₂ C ₂ O ₄	silver oxalate	533-51-7
Ag ₂ Cl ₂	silver(II) dichloride	75763-82-5
Ag ₂ CrO ₄	silver chromate	1/2/7784
Ag ₂ Cr ₂ O ₇	silver dichromate	

Ag ₂ F	silver subfluoride	1302-01-8
Ag ₂ MoO ₄	silver molybdate	13765-74-7
Ag ₂ O	silver(I) oxide	20667-12-3
Ag ₂ S	silver sulfide	21548-73-2
Ag ₂ SO ₄	silver sulfate	10294-26-5
Ag ₂ Se	silver selenide	1302-09-6
Ag ₂ SeO ₃	silver selenite	5/6/7784
Ag ₂ SeO ₄	silver selenate	7/8/7784
Ag ₂ Te	silver(I) telluride	12002-99-2
Ag ₃ Br ₂	silver dibromide	11078-32-3
Ag ₃ Br ₃	silver tribromide	11078-33-4
Ag ₃ Cl ₃	silver(III) trichloride	12444-96-1
Ag ₃ I ₃	silver(III) triiodide	37375-12-5
Ag ₃ PO ₄	silver phosphate	7784-09-0
AlBO	aluminium boron oxide	12041-48-4
AlBO ₂	aluminium borate	61279-70-7
AlBr	aluminium monobromide	22359-97-3
AlBr ₃	aluminium tribromide	7727-15-3
AlCl	aluminium monochloride	13595-81-8
AlClF	aluminium chloride fluoride	22395-91-1
AlClF	aluminium chloride fluoride	22395-91-1
AlClF ₂	aluminium chloride fluoride	13814-65-8
AlClO	aluminium chloride oxide	13596-11-7
AlCl ₂ H		16603-84-2
AlCl ₃	aluminium chloride	16603-84-2
AlCl ₂ F	aluminium chloride fluoride	13497-96-6
AlCl ₃	aluminium trichloride	7446-70-0
AlCl ₄ Cs	aluminium caesium tetrachloride	17992-03-9
AlCl ₄ K	potassium tetrachloroaluminate	13821-13-1
AlCl ₄ Na	sodium tetrachloroaluminate	7784-16-9
AlCl ₄ Rb	aluminium rubidium tetrachloride	17992-02-8

AlCl_6K_3	potassium hexachloroaluminate	13782-08-6
AlCl_6Na_3	sodium hexachloroaluminate	60172-46-5
AlF	aluminium monofluoride	13595-82-9
AlFO	aluminium monofluoride monoxide	13596-12-8
AlF_2	aluminium difluoride	13569-23-8
AlF_2O	aluminium difluoride oxide	38344-66-0
AlF_3	aluminium trifluoride	7784-18-1
AlF_4K	potassium tetrafluoroaluminate	14484-69-6
AlF_4Li	lithium tetrafluoroaluminate	15138-76-8
AlF_6K_3	potassium hexafluoroaluminate	13775-52-5
AlF_6Li_3	lithium hexafluoroaluminate	13821-20-0
AlF_6Na_3	cryolite	15096-52-3
AlGaInP	aluminium-gallium-indium phosphide	
Al(OH)_3	aluminium hydroxide	21645-51-2
AlI	aluminium monoiodide	29977-41-1
AlI_3	aluminium triiodide	7784-23-8
AlLiO_2	lithium aluminate	12003-67-7
AlN	aluminium nitride	24304-00-5
$\text{Al(NO}_3)_3$	aluminium nitrate	13473-90-0
AlNaO_2	sodium aluminate	1302-42-7
AlO	aluminium monoxide	14457-64-8
AlOSi	aluminium silicon monoxide	37361-47-0
AlO_2	Aluminium(IV) oxide	11092-32-3
AlP	aluminium monophosphide	20859-73-8
AlPO_4	aluminium phosphate	7784-30-7
AlTe	aluminium monotelluride	23330-86-1
AlTe_2	monoaluminium ditelluride	39297-18-2
Al_2BeO_4	beryllium aluminium oxide	12004-06-7
Al_2Br_6	dialuminium hexabromide	18898-34-5
$\text{Al}_2(\text{CO}_3)_3$	aluminium carbonate	14455-29-9

$\text{Al}_2\text{Cl}_9\text{K}_3$	potassium aluminium chloride	74978-20-4
Al_2CoO_4	cobalt blue	1333-88-6
Al_2F_6	aluminium fluoride	17949-86-9
Al_2I_6	aluminium iodide	18898-35-6
Al_2MgO_4	magnesium aluminium oxide	12068-51-8
Al_2O	dialuminium monoxide	12004-36-3
Al_2O_2	dialuminium dioxide	12252-63-0
Al_2O_3	aluminium oxide	1344-28-1
$\text{Al}_2\text{O}_5\text{Si}$	aluminium silicate	1302-76-7
$\text{Al}_2\text{O}_5\text{Si}$	aluminium silicate	12141-46-7
$\text{Al}_2\text{O}_5\text{Si}$	andalusite	12183-80-1
$\text{Al}_2\text{O}_7\text{Si}_2$	aluminium silicate	1332-58-7
Al_2S	dialuminium monosulfide	12004-45-4
Al_2S_3	aluminium sulfide	1302-81-4
$\text{Al}_2(\text{SO}_4)_3$	aluminium sulfate	14455-29-9
Al_2Se	dialuminium selenide	12598-14-0
Al_2Te	dialuminium telluride	12598-16-2
$\text{Al}_3\text{F}_{14}\text{Na}_5$	chiolite	1302-84-7
Al_4C_3		
$\text{Al}_6\text{BeO}_{10}$	beryllium aluminium oxide	12253-74-6
$\text{Al}_6\text{O}_{13}\text{Si}_2$	mullite	1302-93-8
ArClF	argon chloride fluoride	53169-15-6
ArClH	argon chloride hydride	163731-17-7
ArFH	argon fluoride hydride	163731-16-6
AsBrO	arsenic oxybromide	82868-10-8
AsBr_3	arsenic tribromide	7784-33-0
AsClO	arsenic monoxide monochloride	14525-25-8
AsCl_3	arsenic trichloride	7784-34-1
AsCl_3O	arsenic oxychloride	60646-36-8
AsCl_4F	arsenic tetrachloride fluoride	87198-15-0
AsF_3	arsenic trifluoride	7784-35-2

AsF ₅	arsenic pentafluoride	7784-36-3
AsH ₃	arsine	7784-42-1
AsI ₃	arsenic triiodide	7784-45-4
AsO	arsenic monoxide	12005-99-1
AsO ₂	arsenic dioxide	12255-12-8
AsP	arsenic monophosphide	12255-33-3
AsP ₃	arsenic triphosphide	12511-95-4
AsTl	thallium arsenide	12006-09-6
As ₂ I ₄	arsenic diiodide	13770-56-4
As ₂ O ₃	arsenic trioxide	1327-53-3
As ₂ P ₂	arsenic diphosphide	12512-03-7
As ₂ O ₅	arsenic pentaoxide	1303-28-2
As ₂ S ₄	arsenic tetrasulfide	1303-32-8
As ₂ S ₅	arsenic pentasulfide	1303-34-0
As ₂ Se	arsenic hemiselenide	1303-35-1
As ₂ Se ₃	arsenic triselenide	1303-36-2
As ₂ Se ₅	arsenic pentaselenide	1303-37-3
As ₃ O ₄	arsenic tetraoxide	83527-53-1
As ₃ P	arsenic(III) phosphide	12512-11-7
As ₄ O ₃	tetraarsenic trioxide	83527-54-2
As ₄ O ₅	tetraarsenic pentaoxide	83527-55-3
As ₄ S ₃	tetraarsenic trisulfide	12512-13-9
As ₄ S ₄	tetraarsenic tetrasulfide	12279-90-2
AuBO	gold monoboride monoxide	12588-90-8
AuBr	gold bromide	10294-27-6
AuBr ₃	gold tribromide	10294-28-7
AuCN	gold cyanide	506-65-0
AuCl	gold chloride	10294-29-8
AuCl ₃	gold trichloride	13453-07-1
AuF ₃	gold trifluoride	14720-21-9
AuI	gold iodide	10294-31-2
AuI ₃	gold(III) iodide	31032-13-0
Au(OH) ₃	gold hydroxide	1303-52-2
AuTe	gold telluride	37043-71-3

Au_2O_3	gold trioxide	1303-58-8
Au_2S	gold sulfide	1303-60-2
Au_2S_3	gold trisulfide	1303-61-3
$\text{Au}_2(\text{SeO}_4)_3$	gold triselenate	10294-32-3
Au_2Se_3	gold triselenide	1303-62-4
BAs	boron arsenide	12005-69-5
BaSO_4	boron(III) arsenate	
BBr_3	boron tribromide	10294-33-4
BCl_3	boron trichloride	10294-34-5
BF_3	boron trifluoride	7/2/7637
BI_3	boron iodide	13517-10-7
BN	boron nitride	10043-11-5
$\text{B}(\text{OH})_3$	boric acid	10043-35-3
BP	boron(III) phosphide	20205-91-8
BPO_4	boron(III) orthophosphate	13308-51-5
B_2Cl_4	boron chloride	13701-67-2
B_2F_4	boron trifluoride	13965-73-6
B_2H_6	boron hydride	19287-45-7
B_2O_3	boron(III) oxide	1303-86-2
B_2S_3	boron sulfide	12007-33-9
$\text{B}_3\text{N}_3\text{H}_6$	borazine	6569-51-3
B_4C	boron carbide	12069-32-8
$\text{Ba}(\text{AlO}_2)_2$	barium aluminate	12004-04-5
$\text{Ba}(\text{AsO}_3)_2$	barium arsenite	125687-68-5
$\text{Ba}(\text{AsO}_4)_2$	barium arsenate	56997-31-0
BaB_6	barium hexaboride	12046-08-1
$\text{Ba}(\text{BrO}_3)_2 \cdot \text{H}_2\text{O}$	barium bromate monohydrate	10326-26-8
$\text{Ba}(\text{BrO}_3)_2 \cdot 2\text{H}_2\text{O}$	barium bromate dihydrate	
BaBr_2	barium bromide	10553-31-8
$\text{Ba}(\text{CHO}_2)_2$	barium formate	541-43-5
$\text{Ba}(\text{C}_2\text{H}_3\text{O}_2)_2$	barium acetate	543-81-7
$\text{Ba}(\text{CN})_2$	barium cyanide	542-62-1

BaC ₂ O ₄	barium oxalate	516-02-9
BaC ₂	barium carbide	50813-65-5
BaCO ₃	barium carbonate	513-77-9
	witherite	
Ba(ClO ₄) ₂	barium perchlorate	13465-95-7
BaCl ₂	barium chloride	10361-37-2
BaCrO ₄	barium chromate	10294-40-3
	barium chromate(VI)	
BaF ₂	barium fluoride	7787-32-8
BaFeSi ₄ O ₁₀	gillespite	
BaHgI ₄	barium tetraiodomercurate(II)	10048-99-4
BaI ₂	barium iodide	13718-50-8
BaK ₂ (CrO ₄) ₂	barium potassium chromate	27133-66-0
BaMnO ₄	barium manganate	7787-35-1
Ba(MnO ₄) ₂	barium permanganate	7787-36-2
BaMoO ₄	barium molybdate	7787-37-3
BaN ₆	barium azide	18810-58-7
Ba(NO ₂) ₂	barium nitrite	13465-94-6
Ba(NO ₃) ₂	barium nitrate	10022-31-8
Ba(NbO ₃) ₂	barium niobate	12009-14-2
BaNb ₂ O ₆	barium metaniobate	12009-14-2
BaO	barium oxide	1304-28-5
Ba(OH) ₂	barium hydroxide	17194-00-2
	baryta	
BaO ₂	barium dioxide	1304-29-6
Ba(PO ₃) ₂	barium metaphosphate	13466-20-1
BaS	barium sulfide	21109-95-5
Ba(SCN) ₂	barium thiocyanate	2092-17-3
BaS ₂ O ₃	barium thiosulfate	35112-53-9
BaSiF ₆	barium hexafluorosilicate	17125-80-3
BaSO ₃	barium sulfite	7787-39-5
BaSO ₄	barium sulfate	7787-43-7
	barite	
BaSe	barium selenide	1304-39-8

BaSeO ₃	barium selenite	13718-59-7
BaSeO ₄	barium selenate	7787-41-9
BaSiO ₃	barium metasilicate	13255-26-0
BaSi ₂	barium silicide	1304-40-1
BaSi ₂ O ₅	barium disilicate	12650-28-1
BaSn ₃	barium stannate	12009-18-6
BaTeO ₃	barium tellurite	58440-17-8
BaTeO ₄ ·3H ₂ O	barium tellurate trihydrate	28557-54-2
BaTiO ₃	barium titanate	12047-27-7
	barium metatitanate	
BaU ₂ O ₇	barium uranium oxide	10380-31-1
BaWO ₄	barium tungstate	7787-42-0
BaZrO ₃	barium zirconate	12009-21-1
Ba ₂ Na(NbO ₃) ₅	barium sodium niobate	12323-03-4
Ba ₂ P ₂ O ₇	barium pyrophosphate	13466-21-2
Ba ₂ V ₂ O ₇	barium pyrovanadate	
Ba ₂ XeO ₆	barium perxenate	
Ba ₃ (CrO ₄) ₂	barium chromate(V)	12345-14-1
Ba ₃ N ₂	barium nitride	12047-79-9
Ba ₃ (PO ₄) ₂	barium orthophosphate	
Ba ₃ (VO ₄) ₂	barium orthovanadate	39416-30-3
BeB ₂	beryllium boride	12228-40-9
Be(BH ₄) ₂	beryllium borohydride	17440-85-6
BeBr ₂	beryllium bromide	7787-46-4
Be(CHO ₂) ₂	beryllium formate	1111-71-3
Be(C ₂ H ₃ O ₂) ₂	beryllium acetate	543-81-7
Be(C ₅ H ₇ O ₂) ₂	beryllium acetylacetonate	10210-64-7
BeCl ₂	beryllium chloride	7787-47-5
BeF ₂	beryllium fluoride	7787-49-7
BeI ₂	beryllium iodide	7787-53-3
BeO	beryllium oxide	1304-56-9
	bromellite	
Be(OH) ₂	beryllium hydroxide	13327-32-7

BeS	beryllium sulfide	13598-22-6
BeSO ₄	beryllium sulfate	13510-49-1
Be ₂ C	beryllium carbide	506-66-1
Be ₃ N ₂	beryllium nitride	1304-54-7
BiBO ₃	bismuth(III) orthoborate	
BiBr ₃	bismuth(III) bromide	7787-58-8
Bi(C ₂ H ₃ O ₂) ₃	bismuth(III) acetate	22306-37-2
BiC ₆ H ₅ O ₇	bismuth(III) citrate	813-93-4
BiCl ₃	bismuth(III) chloride	7787-60-2
BiF ₃	bismuth(III) fluoride	7787-61-3
BiI ₃	bismuth(III) iodide	7787-64-6
Bi(NO ₃) ₃ ·5H ₂ O	bismuth(III) nitrate pentahydrate	10035-06-0
BiOCl	bismuth(III) oxychloride	7787-59-9
BiOI	bismuth(III) oxyiodide	7787-63-5
(BiO) ₂ CO ₃	bismuth oxycarbonate	10/4/5892
BiPO ₄	bismuth(III) orthophosphate	10049-01-1
Bi(VO ₃) ₅	bismuth(III) metavanadate	
Bi ₂ Se ₃	bismuth(III) selenide	12068-69-8
	bismuth selenide	
Bi ₂ (MoO ₄) ₃	bismuth(III) molybdate	13565-96-3
Bi ₂ O ₃	bismuth(III) oxide	1304-76-3
Bi ₂ S ₃	bismuth(III) sulfide	1345-07-9
	bismuthinite	
Bi ₂ Se ₃	bismuth(III) selenide	12068-69-8
BrCl	bromine chloride	13863-41-7
BrO ₃ ⁻	bromate ion	15541-45-4
Br ₂	bromine	7726-95-6
CCl ₂ F ₂	dichlorodifluoromethane	75-71-8
	freon-12	
CCl ₄	carbon tetrachloride	56-23-5
	tetrachloromethane	
CFCl ₃	freon-11	75-69-4
CFCl ₂ CF ₂ Cl	freon-13	
CHCl ₃	chloroform	67-66-3
	trichloromethane	

	methyl trichloride	
CHO_2^-	formate ion	
$\text{CH}_2\text{CHCHCH}_2$	1,3-butadiene	106-99-0
CH_2CO	ketene	
CH_2ClCOOH	chloroacetic acid	
CH_2Cl_2	dichloromethane	75-09-2
CH_2O	formaldehyde	19710-56-6
$\text{CH}_2\text{OHCH}_2\text{OH}$	ethylene glycol	
CH_3CCH	propyne	
$\text{CH}_3\text{CHCHCH}_3$	2-butene	
CH_3CHCH_2	propene	
CH_3CHO	acetaldehyde	
$\text{CH}_3\text{CH}_2\text{Br}$	bromoethane	
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	butan-1-ol	
$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$	1-propanol	
	propan-1-ol	
$\text{CH}_3\text{CH}_2\text{CONH}_2$	propanamide	
$\text{CH}_3\text{CH}_2\text{COOH}$	propionic acid	
$\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$	diethyl ether	
	ethoxyethane	
$\text{CH}_3\text{CH}_2\text{OH}$	ethanol	
$\text{CH}_3(\text{CH}_2)_{16}\text{COOH}$	stearic acid	
CH_3COCH_3	acetone	
CH_3COCl	acetyl chloride	
CH_3CONH_2	acetamide	
	ethanamide	
CH_3COO^-	acetate ion	
$\text{CH}_3\text{COOCHCH}_2$	vinyl acetate	
$\text{CH}_3\text{COOCH}_2\text{C}_6\text{H}_5$	benzyl acetate	
$\text{CH}_3\text{COO}(\text{CH}_2)_2\text{CH}(\text{CH}_3)_2$	isoamyl acetate	
CH_3COOH	acetic acid	
	ethanoic acid	
CH_3Cl	chloromethane	74-87-3
	methyl chloride	
CH_3I	iodomethane	74-88-1

CH ₃ I	methyl iodide	74-88-4
CH ₃ OCH ₃	dimethyl ether	
CH ₃ OH	methanol	
CH ₃ SCH ₃	dimethyl sulfide	
	DMS	
CH ₃ SH	methanethiol	
(CH ₃) ₂ CHOH	isopropyl alcohol	
	2-propanol	
	propan-2-ol	
	isopropanol	
(CH ₃) ₂ CO	acetone	
(CH ₃) ₂ C ₂ O ₄	dimethyl oxalate	
(CH ₃) ₂ NNH ₂	dimethyl hydrazine	
(CH ₃) ₂ S ⁺ CH ₂ CH ₂ COO ⁻	dimethylsulfoniopropionate	
	DMSP	
(CH ₃) ₃ CCl	<i>t</i> -butyl chloride	
(CH ₃) ₃ COH	<i>t</i> -butyl alcohol	
(CH ₃) ₃ COOC(CH ₃) ₃	di- <i>t</i> -butyl peroxide	
	DTBP	
CH ₄	methane	74-82-8
	natural gas	
CN ⁻	cyanide ion	
C(NH ₂) ₃ NO ₃	guanidine nitrate	
CNO ⁻	cyanate ion	
CO	carbon monoxide	630-08-0
COCl ₂	phosgene	75-44-5
CO ₂	carbon dioxide	124-38-9
CO ₃	carbon trioxide	
CO ₃ ²⁻	carbonate ion	
CS ₂	carbon disulfide	75-15-0
C ₂ F ₄	tetrafluoroethylene	116-14-3
C ₂ H ₂	acetylene	74-86-2
C ₂ H ₃ Cl	vinyl chloride	75-01-4
C ₂ H ₃ O ₂ ⁻	acetate ion	
C ₂ H ₄	ethylene	74-85-1
C ₂ H ₄ Cl ₂	ethylene dichloride	107-06-2

C ₂ H ₄ O ₂	acetic acid	64-19-7
C ₂ H ₅ Br	bromoethane	74-96-4
C ₂ H ₅ NH ₂	ethylamine	
C ₂ H ₅ NO ₂	glycine	56-40-6
	Gly	
C ₂ H ₅ O ⁻	ethoxide ion	
C ₂ H ₅ OH	ethanol	
	ethyl alcohol	
(C ₂ H ₅) ₂ NH	diethylamine	
C ₂ H ₆	ethane	74-84-0
C ₂ H ₆ OS	dimethyl sulfoxide	67-68-5
	DMSO	
C ₂ O ₄ ²⁻	oxalate ion	
C ₃ H ₃ O ₄ ⁻	malonate ion	
C ₃ H ₅ N ₃ O ₉	nitroglycerine	
C ₃ H ₆	cyclopropane	75-19-4
propylene	115-07-1	
C ₃ H ₇ NO ₂	alanine	56-41-7
	Ala	
C ₃ H ₇ NO ₂ S	cysteine	52-90-4
	Cys	
C ₃ H ₇ NO ₃	serine	56-45-1
	Ser	
C ₃ H ₈	propane	74-98-6
C ₃ H ₈ O	propanol	71-23-8
	1-propanol	
2-propanol	67-63-0	
C ₃ N ₃ (OH) ₃	cyanuric acid	
C ₃ N ₁₂	cyanuric triazide	5637-83-2
C ₄ H ₇ BrO ₂	2-bromobutyric acid	80-58-0
4-bromobutyric acid	2623-87-2	
α-bromoisobutyric acid		1/9/2052
ethyl bromoacetate	105-36-2	
C ₄ H ₇ NO ₄	aspartic acid	56-84-8
	Asp	
C ₄ H ₈	cyclobutane	287-23-0
C ₄ H ₉ N ₃ O ₃	asparagine	70-17-2

C ₄ H ₈ N ₂ O ₃	Asn	10-47-3
C ₄ H ₈ O	tetrahydrofuran	109-99-9
	THF	
C ₄ H ₉ NO ₃	threonine	72-19-5
	Thr	
C ₄ H ₉ OH	butyl alcohol	
C ₄ H ₁₀	butane	106-97-8
2-methylpropane	75-28-5	
C ₄ H ₁₀ O	diethyl ether	60-29-7
C ₅ H ₄ NCOOH	niacin	
C ₅ H ₅ ⁻	cyclopentadienyl anion	
C ₅ H ₅ N	pyridine	110-86-1
C ₅ H ₉ NO ₂	proline	147-85-3
	Pro	
C ₅ H ₉ NO ₄	glutamic acid	56-86-0
	Glu	
C ₅ H ₁₀	cyclopentane	287-92-3
C ₅ H ₁₀ N ₂ O ₃	glutamine	56-85-9
	Gln	
C ₅ H ₁₀ O ₄	deoxyribose	533-67-5
C ₅ H ₁₁ NO ₂	valine	660-88-8
	Val	
C ₅ H ₁₁ NO ₂ S	methionine	25343-91-3
	Met	
C ₅ H ₁₂	pentane	109-66-0
C ₆ F ₅ COOH	pentafluorobenzoic acid	
C ₆ H ₄ O ₂	orthobenzoquinone	583-63-1
parabenzoquinone	106-51-4	
quinone		
C ₆ H ₅ CHO	benzaldehyde	
C ₆ H ₅ CH ₂ OH	benzyl alcohol	
C ₆ H ₅ COCl	benzoyl chloride	
C ₆ H ₅ COO ⁻	benzoate ion	
C ₆ H ₅ COOH	benzoic acid	65-85-0
C ₆ H ₅ F	fluorobenzene	462-06-6
C ₆ H ₅ OH	phenol	

$C_6H_5O_7^{3-}$	citrate ion	
$(C_6H_5)_4Ge$	tetraphenylgermane	
C_6H_6	benzene	71-43-2
$C_6H_6O_2$	catechol	120-80-9
(benzenediols)		
hydroquinone	123-31-9	
resorcinol	108-46-3	
$C_6H_8O_7$	citric acid	77-92-9
$C_6H_9N_3O_2$	histidine	71-00-1
	His	
$C_6H_{10}O_3$	4-acetylbutyric acid	6/1/3128
butyl glyoxylate	6/3/6295	
ethyl acetoacetate	141-97-9	
2-hydroxypropyl acrylate	25584-83-2	
pantolactone	599-04-2	
propyl pyruvate		
C_6H_{12}	cyclohexane	110-82-7
$C_6H_{12}O_6$	fructose	7660-25-5
glucose	50-99-7	
$C_6H_{13}NO$	<i>N</i> -ethylmorpholine	1119-29-5
$C_6H_{13}NO_2$	isoleucine	73-32-5
	Ile	
leucine	61-90-5	
Leu		
C_6H_{14}	hexane	110-54-3
$C_6H_{14}N_2O_2$	lysine	56-87-1
	Lys	
$C_6H_{14}N_4O_2$	arginine	74-79-3
	Arg	
C_7H_8	toluene	108-88-3
C_7H_{16}	heptane	142-82-5
C_8H_8	cubane	277-10-1
$C_8H_9NO_2$	acetaminophen	103-90-2
C_8H_{18}	octane	111-65-9
$C_9H_8O_4$	acetylsalicylic acid	50-78-2
	aspirin	
$C_9H_{11}NO_2$	phenylalanine	63-91-2
	Phe	

C ₉ H ₁₁ NO ₃	tyrosine	31330-59-3
	Tyr	
C ₉ H ₂₀	nonane	111-84-2
C ₁₀ H ₈	naphthalene	91-20-3
C ₁₀ H ₁₄ O	mentha spicata herb oil	8008-79-5
C ₁₀ H ₁₅ ON	ephedrine	56370-30-0
C ₁₀ H ₁₆ O	camphor	76-22-2
C ₁₀ H ₂₂	decane	124-18-5
C ₁₁ H ₁₂ N ₂ O ₂	tryptophan	73-22-3
	Trp	
C ₁₁ H ₂₄	undecane	1120-21-4
C ₁₂ H ₁₀	biphenyl	92-52-4
C ₁₂ H ₂₂ O ₁₁	maltose	69-79-4
sucrose	57-50-1	
C ₁₂ H ₂₆	dodecane	112-40-3
C ₁₃ H ₁₀ O	benzophenone	119-61-9
C ₁₃ H ₁₂ O	β-ionone	2484-16-4
C ₁₃ H ₂₈	tridecane	629-50-5
C ₁₄ H ₁₀	anthracene	120-12-7
C ₁₄ H ₁₀ O ₁₄	benzoyl peroxide	94-36-0
C ₁₄ H ₁₈ N ₂ O ₅	aspartame	81-14-1
C ₁₄ H ₃₀	tetradecane	629-59-4
C ₁₅ H ₃₂	pentadecane	629-62-9
C ₁₆ H ₃₄	hexadecane	544-76-3
C ₁₇ H ₃₆	heptadecane	629-78-7
C ₁₈ H ₃₂ O ₂	linoleic acid	60-33-3
C ₁₈ H ₃₆ O ₂	stearic acid	57-11-4
C ₁₈ H ₃₈	octadecane	593-45-3
C ₁₉ H ₄₀	nonadecane	629-92-5
C ₂₀ H ₂₄ O ₂ N ₂	quinine	130-95-0
C ₂₀ H ₄₂	eicosane	112-95-8
C ₂₁ H ₃₆ N ₇ O ₁₆ P ₃ S	Coenzyme A	31416-98-5
C ₁₆₄ H ₂₅₆ Na ₂ O ₆₈ S ₂	maitotoxin	59392-53-9

Cl_2O_8	Chlorine octaoxide	
CaB_6	calcium boride	12007-99-7
CaBr_2	calcium bromide	7789-41-5
$\text{Ca}(\text{CN})_2$	calcium cyanide	592-01-8
CaCO_3	calcium carbonate	471-34-1
	spent lime	
	calcite	
	limestone	
	marble	
CaC_2	calcium carbide	75-20-7
$\text{Ca}(\text{CHO}_2)_2$	calcium formate	544-17-2
$\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$	calcium acetate	62-54-4
CaC_2O_4	calcium oxalate	563-72-4
CaCN_2	calcium cyanamide	156-62-7
CaCl_2	calcium chloride	10043-52-4
$\text{Ca}(\text{ClO}_3)_2$	calcium chlorate	10137-74-3
$\text{Ca}(\text{ClO}_4)_2$	calcium perchlorate	13477-36-6
CaF_2	calcium fluoride	7789-75-5
	fluorite	
CaH_2	calcium hydride	7789-78-8
$\text{Ca}(\text{H}_2\text{PO}_2)_2$	calcium hypophosphite	7789-79-9
CaI_2	calcium iodide	10102-68-8
$\text{Ca}(\text{IO}_3)_2$	calcium iodate	7789-80-2
CaMoO_4	calcium molybdate	7789-82-4
$\text{Ca}(\text{NO}_2)_2$	calcium nitrite	13780-06-8
$\text{Ca}(\text{NO}_3)_2$	calcium nitrate	10124-37-5
$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	Calcium nitrate tetrahydrate	13477-34-4
$\text{Ca}(\text{NbO}_3)_2$	calcium metaniobate	
CaO	quicklime	1305-78-8
	calcium oxide	
	burnt lime	
$\text{Ca}(\text{ClO})_2$	calcium hypochlorite	
$\text{Ca}(\text{OH})_2$	calcium hydroxide	1305-62-0
	slaked lime	
CaO_2	calcium peroxide	1305-79-9

CaS	calcium sulfide	20548-54-3
	hepar calcies	
	sulfurated lime	
	oldhamite	
CaSO ₄	calcium sulfate	7778-18-9
	whiskers crystal	
CaSO ₄ · 0.5H ₂ O	plaster of paris	10034-76-1
	calcium sulfate hemihydrate	
CaSe	calcium selenide	1305-84-6
CaSeO ₃	calcium selenite	
CaSeO ₄	calcium selenate	
CaSiO ₃	calcium metasilicate	1344-95-2
	wollastonite	
CaTe	calcium telluride	12013-57-9
CaTeO ₃	calcium tellurite	
CaTeO ₄	calcium tellurate	
CaTiO ₃	calcium titanate	12049-50-2
Ca(VO ₃) ₂	calcium metavanadate	
Ca(VO ₄) ₂	calcium orthovanadate	
CaWO ₄	calcium tungstate	7790-75-2
Ca ₃ N ₂	calcium nitride	12013-82-0
Ca ₃ P ₂	calcium phosphide	1305-99-3
CdBr ₂	cadmium bromide	7789-42-6
Cd(CN) ₂	cadmium cyanide	542-83-6
CdCO ₃	cadmium carbonate	513-78-0
Cd(C ₂ H ₃ O ₂) ₂	cadmium acetate	543-90-8
CdC ₂ O ₄	cadmium oxalate	814-88-0
CdCl ₂	cadmium chloride	10108-64-2
CdCrO ₄	cadmium chromate	14312-00-6
CdF ₂	cadmium fluoride	7790-79-6
CdI ₂	cadmium iodide	7790-80-9
Cd(IO ₃) ₂	cadmium iodate	7790-81-0
CdMoO ₄	cadmium molybdate	13972-68-4
Cd(NO ₃) ₂	cadmium nitrate	10325-94-7

$\text{Cd}(\text{N}_3)_2$	cadmium azide	14215-29-3
CdO	cadmium oxide	1306-19-0
$\text{Cd}(\text{OH})_2$	cadmium hydroxide	21041-95-2
CdS	cadmium sulfide	1306-23-6
	greenockite	
CdSO_3	cadmium sulfite	
CdSO_4	cadmium sulfate	10124-36-4
CdSb	cadmium antimonide	12014-29-8
CdSe	cadmium selenide	1306-24-7
	cadmoselite	
CdSeO_3	cadmium selenite	
CdSiO_3	cadmium metasilicate	13477-19-5
$\text{Cd}(\text{TaO}_3)_2$	cadmium metatantalate	
CdTe	cadmium telluride	1306-25-8
CdTeO_4	cadmium tellurate	
CdTiO_3	cadmium titanate	12014-14-1
CdWO_4	cadmium tungstate	7790-85-4
CdZrO_3	cadmium metazirconate	
$\text{Cd}_2\text{Nb}_2\text{O}_7$	cadmium niobate	12187-14-3
Cd_3As_2	cadmium arsenide	12006-15-4
Cd_3P_2	cadmium phosphide	12014-28-7
$\text{Cd}_3(\text{PO}_4)_2$	cadmium phosphate	
CeB_6	cerium boride	12008-02-5
CeBr_3	cerium(III) bromide	14457-87-5
CeC	cerium carbide	12012-32-7
CeCl_3	cerium(III) chloride	7790-86-5
CeF_3	cerium(III) fluoride	7758-88-5
CeF_4	cerium(IV) fluoride	7758-88-5
CeI_2	cerium(II) iodide	19139-47-0
CeI_3	cerium(III) iodide	7790-87-6
CeN	cerium nitride	25764-08-3
CeO_2	cerium(IV) oxide	1306-38-3
	cerianite	
CeS	cerium(II) sulfide	12014-82-3
$\text{Ce}(\text{SO}_4)_2$	cerium(IV) sulfate	

CeSi ₂	cerium silicide	12014-85-6
Ce ₂ C ₃	cerium(III) carbide	12115-63-8
Ce ₂ O ₃	cerium(III) oxide	1345-13-7
Ce ₂ S ₃	cerium(III) sulfide	12014-93-6
ClF	chlorine fluoride	7790-89-8
ClF ₃	chlorine trifluoride	7790-91-2
ClF ₅	chlorine pentafluoride	13637-63-3
ClOClO ₃	chlorine perchlorate	27218-16-2
ClO ₂	chlorine dioxide	10049-04-4
ClO ₃ F	chlorine trioxide fluoride	7616-94-6
Cl ₂	chlorine	7782-50-5
Cl ₂ O ₃	chlorine trioxide	17496-59-2
Cl ₂ O ₆	chlorine hexoxide	12442-63-6
Cl ₂ O ₇	chlorine heptoxide	10294-48-1
CoAl ₂ O ₄	cobalt(II) aluminate	13820-62-7
CoAs	cobalt arsenide	27016-73-5
CoAs ₂	cobalt(II) arsenide	12044-42-7
CoB	cobalt(II) boride	12006-77-8
CoBr ₂	cobalt(II) bromide	7789-43-7
Co(CN) ₂	cobalt(II) cyanide	542-84-7
Co(C ₂ H ₃ O ₂) ₂	cobalt(II) acetate	71-48-7
Co(C ₂ H ₃ O ₂) ₃	cobalt(III) acetate	917-69-1
CoC ₂ O ₄	cobalt(II) oxalate	814-89-1
Co(ClO ₄) ₂	cobalt(II) perchlorate	13455-31-7
CoCl ₂	cobalt(II) chloride	7646-79-9
CoCrO ₄	cobalt(II) chromate	24613-38-5
CoCr ₂ O ₄	cobalt(II) chromite	13455-25-9
CoF ₂	cobalt(II) fluoride	10026-17-2
CoF ₃	cobalt(III) fluoride	10026-18-3
Co(IO ₃) ₂	cobalt(II) iodate	13455-28-2
CoI ₂	cobalt(II) iodide	15238-00-3
CoMoO ₄	cobalt(II) molybdate	13762-14-6
Co(NO ₃) ₂	cobalt(II) nitrate	10141-05-6

Co(NO ₃) ₃	cobalt(III) nitrate	15520-84-0
CoO	cobalt(II) oxide	1307-96-6
Co(OH) ₂	cobalt(II) hydroxide	21041-93-0
Co(OH) ₃	cobalt(III) hydroxide	1307-86-4
CoS	cobalt(II) sulfide	1317-42-6
CoS ₂	cobalt disulfide	12013-10-4
CoSb	cobalt antimonide	12052-42-5
CoSe	cobalt(II) selenide	1307-99-9
CoSeO ₃	cobalt(II) selenite	
CoTe	cobalt(II) telluride	12017-13-9
CoTiO ₃	cobalt(II) titanate	12017-01-5
CoWO ₄	cobalt(II) tungstate	12640-47-0
Co ₂ B	cobalt boride	12045-01-1
Co ₂ SO ₄	cobalt(II) sulfate	10124-43-3
Co ₂ S ₃	cobalt(III) sulfide	1332-71-4
Co ₂ SiO ₄	cobalt(II) orthosilicate	12017-08-2
Co ₂ SnO ₄	cobalt(II) stannate	12139-93-4
Co ₂ TiO ₄	cobalt(II) titanite	12017-38-8
Co ₃ (Fe(CN) ₆) ₂	cobalt(II) ferricyanide	14049-81-1
CrBr ₂	chromium(II) bromide	10049-25-9
CrBr ₃	chromium(III) bromide	10031-25-1
CrCl ₂	chromium(II) chloride	10049-05-5
CrCl ₃	chromium(III) chloride	10025-73-7
CrCl ₄	chromium(IV) chloride	15597-88-3
CrF ₂	chromium(II) fluoride	10049-10-2
CrF ₃	chromium(III) fluoride	7788-97-8
CrF ₄	chromium(IV) fluoride	10049-11-3
CrF ₅	chromium(V) fluoride	13843-28-2
CrF ₆	chromium(VI) fluoride	13843-28-2
CrI ₂	chromium(II) iodide	13478-28-9
CrI ₃	chromium(III) iodide	13569-75-0
Cr(NO ₃) ₃	chromium(III) nitrate	13548-38-4
Cr(NO ₂) ₃	chromium(III) nitrite	

CrO ₂	chromium(IV) oxide	12018-01-8
CrO ₃	chromium(VI) oxide	1333-82-0
CrO ₄ ²⁻	chromate ion	
CrO ₂ Cl ₂	chromium(VI) oxychloride	14977-61-8
CrPO ₄	chromium(III) phosphate	7789-04-0
CrSb	chromium antimonide	12053-12-2
CrVO ₄	chromium(III) orthovanadate	
Cr ₂ O ₃	chromium(III) oxide	1308-38-9
	eskolaite	
Cr ₂ (SO ₄) ₃	chromium(III) sulfate	10101-53-8
Cr ₂ S ₃	chromium(III) sulfide	12018-22-3
Cr ₂ Se ₃	chromium(III) selenide	
Cr ₂ (TeO ₄) ₃	chromium(III) tellurate	
Cr ₂ Te ₃	chromium(III) telluride	12053-39-3
Cr ₃ As ₂	chromium(II) arsenide	
Cr ₃ C ₂	chromium(II) carbide	12012-35-0
Cr ₃ Sb ₂	chromium(II) antimonide	
Cr ₃ Si ₂	chromium(II) silicide	
CsBO ₂	caesium borate	92141-86-1
CsBr	caesium bromide	7787-69-1
CsBrO ₃	caesium bromate	13454-75-6
CsBr ₃	caesium tribromide	
CsCN	caesium cyanide	21159-32-0
CsC ₂ H ₃ O ₂	caesium acetate	3396-11-0
CsCl	caesium chloride	7647-17-8
CsClO ₃	caesium chlorate	13763-67-2
CsClO ₄	caesium perchlorate	13454-84-7
CsF	caesium fluoride	13400-13-0
CsI	caesium iodide	7789-17-5
CsI ₃	caesium triiodide	
CsNH ₂	caesium amide	22205-57-8
CsNO ₃	caesium nitrate	7789-18-6
CsN ₃	caesium azide	22750-57-8
CsNbO ₃	caesium metaniobate	

CsOH	caesium hydroxide	21351-79-1
CsO ₂	caesium superoxide	12018-61-0
Cs ₂ S	caesium sulfide	12214-16-3
CsSCN	caesium thiocyanate	
CsSeO ₄	caesium selenate	
CsTaO ₃	caesium metatantalate	
Cs ₂ CO ₃	caesium carbonate	29703-01-3
Cs ₂ C ₂ O ₄	caesium oxalate	
Cs ₂ CrO ₄	caesium chromate	
Cs ₂ Cr ₂ O ₇	caesium dichromate	
Cs ₂ HPO ₄	caesium hydrogen orthophosphate	
Cs ₂ MoO ₄	caesium molybdate	13597-64-3
Cs ₂ O	caesium oxide	20281-00-9
Cs ₂ SO ₃	caesium sulfite	
Cs ₂ SO ₄	caesium sulfate	10294-54-9
Cs ₂ SiO ₃	caesium metasilicate	
Cs ₂ TeO ₄	caesium tellurate	
Cs ₂ TiO ₃	caesium titanate	
	caesium metatitanate	
Cs ₂ WO ₄	caesium orthotungstate	
Cs ₃ PO ₄	caesium orthophosphate	
Cs ₃ VO ₄	caesium orthovanadate	
CuBr	copper(I) bromide	7787-70-4
Cu(BrO ₃) ₂ · 6H ₂ O	copper(II) bromate hexahydrate	
CuBr ₂	copper(II) bromide	
CuC ₂ O ₄	copper oxalate	
CuCl	copper(I) chloride	7758-89-6
Cu(ClO ₃) ₂ · 6H ₂ O	copper(II) chlorate hexahydrate	
CuCl ₂	copper(II) chloride	7447-39-4
CuFeS ₂	copper iron sulfide	
	chalcopyrite	
CuFe ₂ O ₄	copper(II) iron(II) oxide	
CuFe ₂ S ₂	copper iron sulfide	

Cu_2O	cubanite	
$[\text{Cu}(\text{H}_2\text{O})_4]\text{SO}_4 \cdot \text{H}_2\text{O}$	blue vitriol	
CuI	copper(I) iodide	7681-65-4
CuIO_3	copper(I) iodate	
$\text{Cu}(\text{IO}_3)_2$	copper(II) iodate	
CuMoO_4	copper(II) orthomolybdate	
$\text{Cu}(\text{NO}_3)_2$	copper(II) nitrate	
$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$	copper(II) nitrate trihydrate	
$\text{Cu}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	copper(II) nitrate hexahydrate	10294-41-4
$\text{Cu}(\text{NbO}_3)_2$	copper(II) orthoniobate	
CuO	copper(II) oxide	1317-38-0
$\text{Cu}(\text{OH})_2$	copper(II) hydroxide	
$\text{Cu}(\text{OH})_2\text{CO}_3$	Verdigris	
CuS	copper(II) sulfide	1317-40-4
	covellite	
CuSCN	copper(I) thiocyanate	
CuSO_4	copper(II) sulfate	7758-98-7
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	copper(II) sulfate pentahydrate	
CuSe	copper(II) selenide	
$\text{CuSeO}_3 \cdot 2\text{H}_2\text{O}$	copper(II) selenite dihydrate	
$\text{CuSeO}_4 \cdot 5\text{H}_2\text{O}$	copper(II) selenate pentahydrate	
CuSiO_3	copper(II) metasilicate	
CuTe	copper(II) telluride	
CuTeO_3	copper(II) tellurite	
CuTiO_3	copper(II) metatitanate	
$\text{Cu}(\text{VO}_3)_2$	copper(II) metavanadate	
CuWO_4	copper(II) orthotungstate	
$\text{Cu}_2\text{CO}_3(\text{OH})_2$	malachite	
Cu_2S	copper(I) sulfide	
	chalcocite	
Cu_2Se	copper(I) selenide	
Cu_2Te	copper(I) telluride	

Cu_3As	copper(I) arsenide	
Cu_3P	copper(I) phosphide	
$\text{Cu}_3(\text{PO}_4)_2$	copper(II) phosphate	
Cu_3Sb	copper(III) antimonide	
Cu_9S_5	copper sulfide	
	digenite	
Cu_3Zn_2	brass	
CaB_6	calcium boride	12007-99-7
CaBr_2	calcium bromide	7789-41-5
$\text{Ca}(\text{CN})_2$	calcium cyanide	592-01-8
CaCO_3	calcium carbonate	471-34-1
	spent lime	
	calcite	
	limestone	
	marble	
CaC_2	calcium carbide	75-20-7
$\text{Ca}(\text{CHO}_2)_2$	calcium formate	544-17-2
$\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$	calcium acetate	62-54-4
CaC_2O_4	calcium oxalate	563-72-4
CaCN_2	calcium cyanamide	156-62-7
CaCl_2	calcium chloride	10043-52-4
$\text{Ca}(\text{ClO}_3)_2$	calcium chlorate	10137-74-3
$\text{Ca}(\text{ClO}_4)_2$	calcium perchlorate	13477-36-6
CaF_2	calcium fluoride	7789-75-5
	fluorite	
CaH_2	calcium hydride	7789-78-8
$\text{Ca}(\text{H}_2\text{PO}_2)_2$	calcium hypophosphite	7789-79-9
CaI_2	calcium iodide	10102-68-8
$\text{Ca}(\text{IO}_3)_2$	calcium iodate	7789-80-2
CaMoO_4	calcium molybdate	7789-82-4
$\text{Ca}(\text{NO}_2)_2$	calcium nitrite	13780-06-8
$\text{Ca}(\text{NO}_3)_2$	calcium nitrate	10124-37-5
$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	Calcium nitrate tetrahydrate	13477-34-4
$\text{Ca}(\text{NbO}_3)_2$	calcium metaniobate	
	quicklime	

CaO	calcium oxide	1305-78-8
	burnt lime	
Ca(ClO) ₂	calcium hypochlorite	
Ca(OH) ₂	calcium hydroxide	1305-62-0
	slaked lime	
CaO ₂	calcium peroxide	1305-79-9
CaS	calcium sulfide	20548-54-3
	hepar calcies	
	sulfurated lime	
	oldhamite	
CaSO ₄	calcium sulfate	7778-18-9
	whiskers crystal	
CaSO ₄ · 0.5H ₂ O	plaster of paris	10034-76-1
	calcium sulfate hemihydrate	
CaSe	calcium selenide	1305-84-6
CaSeO ₃	calcium selenite	
CaSeO ₄	calcium selenate	
CaSiO ₃	calcium metasilicate	1344-95-2
	wollastonite	
CaTe	calcium telluride	12013-57-9
CaTeO ₃	calcium tellurite	
CaTeO ₄	calcium tellurate	
CaTiO ₃	calcium titanate	12049-50-2
Ca(VO ₃) ₂	calcium metavanadate	
Ca(VO ₄) ₂	calcium orthovanadate	
CaWO ₄	calcium tungstate	7790-75-2
Ca ₃ N ₂	calcium nitride	12013-82-0
Ca ₃ P ₂	calcium phosphide	1305-99-3
CdBr ₂	cadmium bromide	7789-42-6
Cd(CN) ₂	cadmium cyanide	542-83-6
CdCO ₃	cadmium carbonate	513-78-0
Cd(C ₂ H ₃ O ₂) ₂	cadmium acetate	543-90-8
CdC ₂ O ₄	cadmium oxalate	814-88-0
CdCl ₂	cadmium chloride	10108-64-2
CdCrO ₄	cadmium chromate	14312-00-6

CdF_2	cadmium fluoride	7790-79-6
CdI_2	cadmium iodide	7790-80-9
$\text{Cd}(\text{IO}_3)_2$	cadmium iodate	7790-81-0
CdMoO_4	cadmium molybdate	13972-68-4
$\text{Cd}(\text{NO}_3)_2$	cadmium nitrate	10325-94-7
$\text{Cd}(\text{N}_3)_2$	cadmium azide	14215-29-3
CdO	cadmium oxide	1306-19-0
$\text{Cd}(\text{OH})_2$	cadmium hydroxide	21041-95-2
CdS	cadmium sulfide	1306-23-6
	greenockite	
CdSO_3	cadmium sulfite	
CdSO_4	cadmium sulfate	10124-36-4
CdSb	cadmium antimonide	12014-29-8
CdSe	cadmium selenide	1306-24-7
	cadmoselite	
CdSeO_3	cadmium selenite	
CdSiO_3	cadmium metasilicate	13477-19-5
$\text{Cd}(\text{TaO}_3)_2$	cadmium metatantalate	
CdTe	cadmium telluride	1306-25-8
CdTeO_4	cadmium tellurate	
CdTiO_3	cadmium titanate	12014-14-1
CdWO_4	cadmium tungstate	7790-85-4
CdZrO_3	cadmium metazirconate	
$\text{Cd}_2\text{Nb}_2\text{O}_7$	cadmium niobate	12187-14-3
Cd_3As_2	cadmium arsenide	12006-15-4
Cd_3P_2	cadmium phosphide	12014-28-7
$\text{Cd}_3(\text{PO}_4)_2$	cadmium phosphate	
CeB_6	cerium boride	12008-02-5
CeBr_3	cerium(III) bromide	14457-87-5
CeC	cerium carbide	12012-32-7
CeCl_3	cerium(III) chloride	7790-86-5
CeF_3	cerium(III) fluoride	7758-88-5
CeF_4	cerium(IV) fluoride	7758-88-5
CeI_2	cerium(II) iodide	19139-47-0

CeI ₃	cerium(III) iodide	7790-87-6
CeN	cerium nitride	25764-08-3
CeO ₂	cerium(IV) oxide	1306-38-3
	cerianite	
CeS	cerium(II) sulfide	12014-82-3
Ce(SO ₄) ₂	cerium(IV) sulfate	
CeSi ₂	cerium silicide	12014-85-6
Ce ₂ C ₃	cerium(III) carbide	12115-63-8
Ce ₂ O ₃	cerium(III) oxide	1345-13-7
Ce ₂ S ₃	cerium(III) sulfide	12014-93-6
ClF	chlorine fluoride	7790-89-8
ClF ₃	chlorine trifluoride	7790-91-2
ClF ₅	chlorine pentafluoride	13637-63-3
ClOClO ₃	chlorine perchlorate	27218-16-2
ClO ₂	chlorine dioxide	10049-04-4
ClO ₃ F	chlorine trioxide fluoride	7616-94-6
Cl ₂	chlorine	7782-50-5
Cl ₂ O ₃	chlorine trioxide	17496-59-2
Cl ₂ O ₆	chlorine hexoxide	12442-63-6
Cl ₂ O ₇	chlorine heptoxide	10294-48-1
CoAl ₂ O ₄	cobalt(II) aluminate	13820-62-7
CoAs	cobalt arsenide	27016-73-5
CoAs ₂	cobalt(II) arsenide	12044-42-7
CoB	cobalt(II) boride	12006-77-8
CoBr ₂	cobalt(II) bromide	7789-43-7
Co(CN) ₂	cobalt(II) cyanide	542-84-7
Co(C ₂ H ₃ O ₂) ₂	cobalt(II) acetate	71-48-7
Co(C ₂ H ₃ O ₂) ₃	cobalt(III) acetate	917-69-1
CoC ₂ O ₄	cobalt(II) oxalate	814-89-1
Co(ClO ₄) ₂	cobalt(II) perchlorate	13455-31-7
CoCl ₂	cobalt(II) chloride	7646-79-9
CoCrO ₄	cobalt(II) chromate	24613-38-5
CoCr ₂ O ₄	cobalt(II) chromite	13455-25-9
CoF ₂	cobalt(II) fluoride	10026-17-2

CoF ₃	cobalt(III) fluoride	10026-18-3
Co(IO ₃) ₂	cobalt(II) iodate	13455-28-2
CoI ₂	cobalt(II) iodide	15238-00-3
CoMoO ₄	cobalt(II) molybdate	13762-14-6
Co(NO ₃) ₂	cobalt(II) nitrate	10141-05-6
Co(NO ₃) ₃	cobalt(III) nitrate	15520-84-0
CoO	cobalt(II) oxide	1307-96-6
Co(OH) ₂	cobalt(II) hydroxide	21041-93-0
Co(OH) ₃	cobalt(III) hydroxide	1307-86-4
CoS	cobalt(II) sulfide	1317-42-6
CoS ₂	cobalt disulfide	12013-10-4
CoSb	cobalt antimonide	12052-42-5
CoSe	cobalt(II) selenide	1307-99-9
CoSeO ₃	cobalt(II) selenite	
CoTe	cobalt(II) telluride	12017-13-9
CoTiO ₃	cobalt(II) titanate	12017-01-5
CoWO ₄	cobalt(II) tungstate	12640-47-0
Co ₂ B	cobalt boride	12045-01-1
Co ₂ SO ₄	cobalt(II) sulfate	10124-43-3
Co ₂ S ₃	cobalt(III) sulfide	1332-71-4
Co ₂ SiO ₄	cobalt(II) orthosilicate	12017-08-2
Co ₂ SnO ₄	cobalt(II) stannate	12139-93-4
Co ₂ TiO ₄	cobalt(II) titanite	12017-38-8
Co ₃ (Fe(CN) ₆) ₂	cobalt(II) ferricyanide	14049-81-1
CrBr ₂	chromium(II) bromide	10049-25-9
CrBr ₃	chromium(III) bromide	10031-25-1
CrCl ₂	chromium(II) chloride	10049-05-5
CrCl ₃	chromium(III) chloride	10025-73-7
CrCl ₄	chromium(IV) chloride	15597-88-3
CrF ₂	chromium(II) fluoride	10049-10-2
CrF ₃	chromium(III) fluoride	7788-97-8
CrF ₄	chromium(IV) fluoride	10049-11-3
CrF ₅	chromium(V) fluoride	13843-28-2

CrF_6	chromium(VI) fluoride	13843-28-2
CrI_2	chromium(II) iodide	13478-28-9
CrI_3	chromium(III) iodide	13569-75-0
$\text{Cr}(\text{NO}_3)_3$	chromium(III) nitrate	13548-38-4
$\text{Cr}(\text{NO}_2)_3$	chromium(III) nitrite	
CrO_2	chromium(IV) oxide	12018-01-8
CrO_3	chromium(VI) oxide	1333-82-0
CrO_4^{2-}	chromate ion	
CrO_2Cl_2	chromium(VI) oxychloride	14977-61-8
CrPO_4	chromium(III) phosphate	7789-04-0
CrSb	chromium antimonide	12053-12-2
CrVO_4	chromium(III) orthovanadate	
Cr_2O_3	chromium(III) oxide	1308-38-9
	eskolaite	
$\text{Cr}_2(\text{SO}_4)_3$	chromium(III) sulfate	10101-53-8
Cr_2S_3	chromium(III) sulfide	12018-22-3
Cr_2Se_3	chromium(III) selenide	
$\text{Cr}_2(\text{TeO}_4)_3$	chromium(III) tellurate	
Cr_2Te_3	chromium(III) telluride	12053-39-3
Cr_3As_2	chromium(II) arsenide	
Cr_3C_2	chromium(II) carbide	12012-35-0
Cr_3Sb_2	chromium(II) antimonide	
Cr_3Si_2	chromium(II) silicide	
CsBO_2	caesium borate	92141-86-1
CsBr	caesium bromide	7787-69-1
CsBrO_3	caesium bromate	13454-75-6
CsBr_3	caesium tribromide	
CsCN	caesium cyanide	21159-32-0
$\text{CsC}_2\text{H}_3\text{O}_2$	caesium acetate	3396-11-0
CsCl	caesium chloride	7647-17-8
CsClO_3	caesium chlorate	13763-67-2
CsClO_4	caesium perchlorate	13454-84-7
CsF	caesium fluoride	13400-13-0
CsI	caesium iodide	7789-17-5

CsI ₃	caesium triiodide	
CsNH ₂	caesium amide	22205-57-8
CsNO ₃	caesium nitrate	7789-18-6
CsN ₃	caesium azide	22750-57-8
CsNbO ₃	caesium metaniobate	
CsOH	caesium hydroxide	21351-79-1
CsO ₂	caesium superoxide	12018-61-0
Cs ₂ S	caesium sulfide	12214-16-3
CsSCN	caesium thiocyanate	
CsSeO ₄	caesium selenate	
CsTaO ₃	caesium metatantalate	
Cs ₂ CO ₃	caesium carbonate	29703-01-3
Cs ₂ C ₂ O ₄	caesium oxalate	
Cs ₂ CrO ₄	caesium chromate	
Cs ₂ Cr ₂ O ₇	caesium dichromate	
Cs ₂ HPO ₄	caesium hydrogen orthophosphate	
Cs ₂ MoO ₄	caesium molybdate	13597-64-3
Cs ₂ O	caesium oxide	20281-00-9
Cs ₂ SO ₃	caesium sulfite	
Cs ₂ SO ₄	caesium sulfate	10294-54-9
Cs ₂ SiO ₃	caesium metasilicate	
Cs ₂ TeO ₄	caesium tellurate	
Cs ₂ TiO ₃	caesium titanate	
	caesium metatitanate	
Cs ₂ WO ₄	caesium orthotungstate	
Cs ₃ PO ₄	caesium orthophosphate	
Cs ₃ VO ₄	caesium orthovanadate	
CuBr	copper(I) bromide	7787-70-4
Cu(BrO ₃) ₂ · 6H ₂ O	copper(II) bromate hexahydrate	
CuBr ₂	copper(II) bromide	
CuC ₂ O ₄	copper oxalate	
CuCl	copper(I) chloride	7758-89-6

$\text{Cu}(\text{ClO}_3)_2 \cdot 6\text{H}_2\text{O}$	copper(II) chlorate hexahydrate	
CuCl_2	copper(II) chloride	7447-39-4
CuFeS_2	copper iron sulfide	
	chalcopyrite	
CuFe_2O_4	copper(II) iron(II) oxide	
CuFe_2S_3	copper iron sulfide	
	cubanite	
$[\text{Cu}(\text{H}_2\text{O})_4]\text{SO}_4 \cdot \text{H}_2\text{O}$	blue vitriol	
CuI	copper(I) iodide	7681-65-4
CuIO_3	copper(I) iodate	
$\text{Cu}(\text{IO}_3)_2$	copper(II) iodate	
CuMoO_4	copper(II) orthomolybdate	
$\text{Cu}(\text{NO}_3)_2$	copper(II) nitrate	
$\text{Cu}(\text{NO}_3)_2 \cdot 3\text{H}_2\text{O}$	copper(II) nitrate trihydrate	
$\text{Cu}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	copper(II) nitrate hexahydrate	10294-41-4
$\text{Cu}(\text{NbO}_3)_2$	copper(II) orthoniobate	
CuO	copper(II) oxide	1317-38-0
$\text{Cu}(\text{OH})_2$	copper(II) hydroxide	
$\text{Cu}(\text{OH})_2\text{CO}_3$	Verdigris	
CuS	copper(II) sulfide	1317-40-4
	covellite	
CuSCN	copper(I) thiocyanate	
CuSO_4	copper(II) sulfate	7758-98-7
$\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$	copper(II) sulfate pentahydrate	
CuSe	copper(II) selenide	
$\text{CuSeO}_3 \cdot 2\text{H}_2\text{O}$	copper(II) selenite dihydrate	
$\text{CuSeO}_4 \cdot 5\text{H}_2\text{O}$	copper(II) selenate pentahydrate	
CuSiO_3	copper(II) metasilicate	
CuTe	copper(II) telluride	
CuTeO_3	copper(II) tellurite	
CuTiO_3	copper(II) metatitanate	
$\text{Cu}(\text{VO}_3)_2$	copper(II) metavanadate	

CuWO_4	copper(II) orthotungstate	
$\text{Cu}_2\text{CO}_3(\text{OH})_2$	malachite	
Cu_2S	copper(I) sulfide	
	chalcocite	
Cu_2Se	copper(I) selenide	
Cu_2Te	copper(I) telluride	
Cu_3As	copper(I) arsenide	
Cu_3P	copper(I) phosphide	
$\text{Cu}_3(\text{PO}_4)_2$	copper(II) phosphate	
Cu_3Sb	copper(III) antimonide	
Cu_9S_5	copper sulfide	
	digenite	
Cu_3Zn_2	brass	
ErF	erbium monofluoride	16087-67-5
ErF_2	erbium difluoride	16087-65-3
ErF_3	erbium trifluoride	13760-83-3
ErI_3	erbium triiodide	13813-42-8
ErI_4Na	erbium sodium tetraiodide	129863-13-4
ErO	erbium monoxide	12280-61-4
EuF	europium monofluoride	17209-60-8
EuF_3	europium trifluoride	13765-25-8
EuI_2	europium diiodide	22015-35-6
EuNbO_2	europium niobium dioxide	107069-78-3
EuNb_2O_6	europium diniobium hexaoxide	55216-32-5
EuO	europium monoxide	12020-60-9
EuO_2V	monoeuropium monovanadium dioxide	88762-30-5
EuO_3Ti	europium titanium trioxide	12020-61-0
EuO_3V	europium metavanadate	39432-21-8
EuO_4W	europium tungsten tetraoxide	13537-12-7
EuS	europium monosulfide	12020-65-4
EuS_2	europium disulfide	55957-42-1
Eu_2O	dieuropium monoxide	62462-47-9
Eu_2O_2	dieuropium dioxide	62462-48-0

Eu ₂ S	dieuropium monosulfide	62462-49-1
Eu ₂ S ₂	dieuropium disulfide	62462-51-5
F ₂ Fe	iron fluoride	41428-55-1
FGa	gallium monofluoride	13966-78-4
FGaO	gallium monofluoride monoxide	15586-66-0
FGd	gadolinium monofluoride	12259-18-6
FGe	germanium monofluoride	14929-46-5
FHo	holmium monofluoride	16087-66-4
FI	iodine monofluoride	13873-84-2
FI ₂	monofluorodiiodine	58751-33-0
FI _n	indium monofluoride	13966-95-5
FLa	lanthanum monofluoride	13943-44-7
FLi	lithium fluoride	7789-24-4
FLiO	lithium hypofluorite	34240-84-1
FLi ₂	dilithium monofluoride	50644-69-4
FMg	magnesium monofluoride	14953-28-7
FMn	monomanganese monofluoride	13569-25-0
FMnO ₃	manganese fluoride trioxide	15586-97-7
FMo	molybdenum monofluoride	60388-18-3
FN	fluoroimidogen	13967-06-1
FNO	nitrosyl fluoride	7789-25-5
FNO ₂	nitryl fluoride	10022-50-1
FNO ₃	fluorine nitrate	7789-26-6
FNS	thiazyl fluoride	18820-63-8
FNa	sodium fluoride	7681-49-4
FNa ₂	disodium monofluoride	87331-13-3
FNd	neodymium monofluoride	13940-77-7
FO	oxygen monofluoride	12061-70-0
FOT _h	thorium monofluoride monoxide	19797-90-1
FOT _i	titanium fluoride oxide	17497-75-5
FO ₂	dioxygen monofluoride	15499-23-7
FO ₃ S	fluorosulfate radical	21549-02-0
FP	phosphorus monofluoride	16027-92-2
FPS	phosphenothious fluoride	55753-39-4
FPS ₂	phosphenodithioic fluoride	137649-46-8

FPb	lead monofluoride	14986-72-2
FPu	plutonium monofluoride	20882-16-0
FRb	rubidium fluoride	13446-74-7
FS	monosulfur monofluoride	16068-96-5
FSc	scandium monofluoride	14017-33-5
FSm	samarium monofluoride	17209-59-5
FSn	tin monofluoride	13966-74-0
FSr	strontium monofluoride	13569-27-2
FTh	thorium monofluoride	51686-34-1
FTi	titanium fluoride	18025-22-4
FTl	thallium monofluoride	7789-27-7
FW	tungsten monofluoride	51621-16-0
FXe	xenon monofluoride	16757-14-5
FY	yttrium monofluoride	13981-88-9
FZr	zirconium fluoride	13569-28-3
F ₂	fluorine	7782-41-4
F ₂ Fe	ferrous fluoride	7789-28-8
F ₂ Ga	gallium difluoride	51777-79-8
F ₂ Gd	gadolinium difluoride	12259-19-7
F ₂ Ge	germanium difluoride	13940-63-1
F ₂ GeO	difluorogermanone	72190-38-6
F ₂ Hg	mercury fluoride	7783-39-3
F ₂ Hg ₂	mercury fluoride	13967-25-4
F ₂ Ho	holmium difluoride	16087-64-2
F ₂ IP	difluoroiodophosphine	13819-11-9
F ₂ K ₂	dipotassium difluoride	12285-62-0
F ₂ Kr	krypton difluoride	13773-81-4
F ₂ La	lanthanum difluoride	15948-68-2
F ₂ Li ₂	lithium fluoride	12265-82-6
F ₂ Mg	magnesium fluoride	7783-40-6
F ₂ Mn	manganese difluoride	7782-64-1
F ₂ Mo	molybdenum difluoride	20205-60-1
F ₂ MoO ₂	molybdenum difluoride dioxide	13824-57-2
F ₂ N	difluoroamino radical	7/8/3744
F ₂ N ₂ O	nitrosodifluoroamine	14984-78-2

F_2Na_2	disodium difluoride	12285-64-2
F_2Nd	neodymium difluoride	13940-76-6
F_2Ni	nickel difluoride	10028-18-9
F_2O	oxygen difluoride	7783-41-7
F_2OS	thionyl fluoride	7783-42-8
F_2OSi	difluorooxosilane	14041-22-6
F_2OTi	titanium fluoride oxide	13537-16-1
F_2O_2	perfluoroperoxide	7783-44-0
F_2O_2S	sulfuryl fluoride	2699-79-8
F_2O_2W	tungsten difluoride dioxide	14118-73-1
$F_2O_5S_3$	peroxydisulfuryl difluoride	
F_2P	phosphorus difluoride	13873-52-4
F_2Pb	lead difluoride	7783-46-2
F_2Pt	platinum difluoride	18820-56-9
F_2Pu	plutonium difluoride	20882-15-9
F_2S	sulfur difluoride	13814-25-0
F_2SW	tungsten difluoride monosulfide	41831-78-1
F_2S_2	difluorodisulfane	13709-35-8
F_2S_2	thiothionyl fluoride	16860-99-4
F_2S_2	thiothionyl fluoride	101947-30-2
F_2S_2W	tungsten difluoride disulfide	41831-81-6
F_2Sc	scandium difluoride	14017-34-6
F_2Se	selenium difluoride	70421-43-1
F_2Si	difluorosilylene	13966-66-0
F_2Sn	tin difluoride	7783-47-3
F_2Sr	strontium fluoride	7783-48-4
F_2Th	thorium difluoride	28844-11-3
F_2Ti	titanium difluoride	13814-20-5
F_2Tl_2	dithallium difluoride	31970-97-5
F_2W	tungsten difluoride	33963-15-4
F_2Xe	xenon difluoride	13709-36-9
F_2Y	yttrium difluoride	13981-89-0

F ₂ Zn	zinc difluoride	7783-49-5
F ₂ Zr	zirconium fluoride	13842-94-9
F ₃ Fe	iron trifluoride	7783-50-8
F ₃ Ga	gallium trifluoride	7783-51-9
F ₃ Gd	gadolinium trifluoride	13765-26-9
F ₃ Ho	holmium trifluoride	13760-78-6
F ₃ La	lanthanum trifluoride	13709-38-1
F ₃ Li ₃	trilithium trifluoride	110682-19-4
F ₃ Lu	lutetium trifluoride	13760-81-1
F ₃ Mn	manganese trifluoride	7783-53-1
F ₃ Mo	molybdenum trifluoride	20193-58-2
F ₃ MoO	molybdenum trifluoride oxide	22529-29-9
F ₃ MoS	molybdenum trifluoride sulfide	67374-76-9
F ₃ N	nitrogen trifluoride	7783-54-2
F ₃ NO	nitrogen trifluoride oxide	13847-65-9
F ₃ NO ₂ S	difluoroaminosulfonyl fluoride	13709-30-3
F ₃ NO ₃ S	difluoraminoxysulfonyl fluoride	12/2/6816
F ₃ NS	thiazyl trifluoride	15930-75-3
F ₃ NaSn	sodium trifluorostannate	13782-22-4
F ₃ Nd	neodymium trifluoride	13709-42-7
F ₃ OP	phosphoryl fluoride	13478-20-1
F ₃ OTa	tantalum monoxide trifluoride	20263-47-2
F ₃ OV	vanadium trifluoride oxide	13709-31-4
F ₃ P	phosphorus trifluoride	7783-55-3
F ₃ PS	thiophosphoryl fluoride	2404-52-6
F ₃ Pr	praseodymium trifluoride	13709-46-1
F ₃ Pu	plutonium trifluoride	13842-83-6
F ₃ Rh	rhodium fluoride	60804-25-3
F ₃ S	sulfur trifluoride	30937-38-3

F_3SW	tungsten trifluoride monosulfide	41831-79-2
F_3Sb	antimony trifluoride	7783-56-4
F_3Sc	scandium fluoride	13709-47-2
F_3Si	trifluorosilyl radical	14835-14-4
F_3Sm	samarium trifluoride	13765-24-7
F_3Tb	terbium trifluoride	13708-63-9
F_3Th	thorium trifluoride	13842-84-7
F_3Ti	titanium trifluoride	13470-08-1
F_3Tl	thallium trifluoride	7783-57-5
F_3Tm	thulium trifluoride	13760-79-7
F_3W	tungsten trifluoride	51621-17-1
F_3Y	yttrium trifluoride	13709-49-4
F_3Yb	ytterbium trifluoride	13760-80-0
F_3Zr	zirconium trifluoride	13814-22-7
F_4Ge	germanium tetrafluoride	7783-58-6
F_4Ge_2	digermanium tetrafluoride	12332-08-0
F_4Hf	hafnium fluoride	13709-52-9
F_4Mg_2	dimagnesium tetrafluoride	56450-89-6
F_4Mg_2	magnesium fluoride	58790-41-3
F_4Mo	molybdenum tetrafluoride	23412-45-5
F_4MoO	molybdenum tetrafluoride oxide	14459-59-7
F_4MoS	molybdenum tetrafluoride monosulfide	70487-60-4
F_4N_2	tetrafluorohydrazine	10036-47-2
F_4Na_2Sn	disodium tetrafluorostannate	15007-55-3
F_4OOs	osmium oxide tetrafluoride	38448-58-7
F_4OP_2	diphosphorus tetrafluoride oxide	13812-07-2
F_4ORE	rhenium tetrafluoride oxide	17026-29-8
F_4OS	sulfur tetrafluoride oxide	13709-54-1
F_4OW	tungsten tetrafluoride oxide	13520-79-1
F_4OXe	xenon tetrafluoride oxide	13774-85-1

F_4P_2	diphosphorus tetrafluoride	13824-74-3
F_4Pb	lead tetrafluoride	7783-59-7
F_4Pt	platinum tetrafluoride	13455-15-7
F_4Pu	plutonium tetrafluoride	13709-56-3
F_4S	sulfur tetrafluoride	7783-60-0
F_4SW	tungsten tetrafluoride monosulfide	41831-80-5
F_4Se	selenium tetrafluoride	13465-66-2
F_4Si	silicon tetrafluoride	7783-61-1
F_4Sn_2	ditin tetrafluoride	130950-28-6
F_4Ti	titanium fluoride	7783-63-3
F_4U	uranium tetrafluoride	10049-14-6
F_4W	tungsten tetrafluoride	13766-47-7
F_4Xe	xenon tetrafluoride	13709-61-0
F_4Zr	zirconium tetrafluoride	7783-64-4
F_5I	iodine pentafluoride	7783-66-6
F_5Mo	molybdenum pentafluoride	13819-84-6
F_5ORe	rhenium monoxide pentafluoride	23377-53-9
F_5P	phosphorus pentafluoride	7647-19-0
F_5Pu	plutonium pentafluoride	31479-19-3
F_5S	disulfur decafluoride	10546-01-7
F_5Sb	antimony pentafluoride	7783-70-2
F_5Ta	tantalum pentafluoride	7783-71-3
F_5U	uranium pentafluoride	13775-07-0
F_5W	tungsten pentafluoride	19357-83-6
F_6Fe_2	diiron hexafluoride	17114-45-3
F_6La_2	lanthanum trifluoride dimer	12592-31-3
F_6Mo	molybdenum hexafluoride	7783-77-9
F_6NP_3	nitridotriphosphorous hexafluoride	56564-56-8
F_6Os	osmium hexafluoride	13768-38-2
F_6Pu	plutonium hexafluoride	13693-06-6
F_6Re	rhenium hexafluoride	10049-17-9

F_6S	sulfur hexafluoride	2551-62-4
F_6Se	selenium hexafluoride	7783-79-1
F_6Si_2	hexafluorodisilane	13830-68-7
F_6Sn_3	tritin hexafluoride	12324-60-6
F_6Te	tellurium hexafluoride	7783-80-4
F_6U	uranium hexafluoride	7783-81-5
F_6W	tungsten hexafluoride	7783-82-6
F_6Xe	xenon hexafluoride	13693-09-9
F_7I	iodine fluoride	16921-96-3
F_7NS	pentafluorosulfanyldifluoroamine	13693-10-2
F_7Re	rhenium heptafluoride	17029-21-9
F_8Si_3	octafluorotrisilane	14521-14-3
$F_{10}Mo_2$	molybdenum fluoride	65653-18-1
$F_{10}S_2$	sulfur fluoride	5714-22-7
$F_{15}Mo_3$	molybdenum fluoride	65653-05-6
FeAsS	iron arsenic sulfide	
	arsenopyrite	
Feb-02	iron(II) bromide	7789-46-0
Feb-03	iron(III) bromide	
$FeBr_3 \cdot 6H_2O$	iron(III) bromide hexahydrate	
$FeCO_3$	siderite	
FeC_2O_4	iron oxalate	
FeC_5O_5	iron pentacarbonyl	13463-40-6
	pentacarbonyl iron	
$FeC_{10}H_{10}$	ferrocene	
$FeCl_2$	iron(II) chloride	
$FeCl_3$	iron(III) chloride	7705-08-0
$FeCr_2O_4$	chromite (ore)	
$FeF_2 \cdot 4H_2O$	iron(II) fluoride tetrahydrate	
FeI	iron monoiodide	33019-21-5
FeI_2	iron diiodide	7783-86-0
	iron(II) iodide	
$FeI_2 \cdot 4H_2O$	iron(II) iodide tetrahydrate	

FeI_3	iron(III) iodide	
FeMoO_4	iron(II) orthomolybdate	
FeO	iron monoxide	1345-25-1
	iron(II) oxide	
	wüstite	
FeO_2	iron dioxide	12411-15-3
FeO_2H	goethite	
$\text{FeO}_2\text{H} \cdot n \text{H}_2\text{O}$	limonite	
Fe(OH)_2	iron(II) hydroxide	
Fe(OH)_3	iron(III) hydroxide	
FeO_4S	ferrous sulfate	7720-78-7
$\text{FeO}_8\text{H}_4\text{P}_2$	iron(II) dihydrogen phosphate	
FeP	iron(III) phosphide	
FeS	iron sulfide	1317-96-0
	iron(II) sulfide	
FeS_2	pyrite	1309-36-0
	fool's gold	
iron(IV) sulfide	12068-85-8	
marcasite		
FeSe	iron(II) selenide	
FeTe	iron(II) telluride	
FeTiO_3	iron(II) metatitanate	
FeVO_4	iron(III) orthovanadate	
FeWO_4	iron(II) orthotungstate	
FeZrO_3	iron(II) metazirconate	
Fe_2I_2	diiron diiodide	92785-64-3
Fe_2I_4	diiron tetraiodide	92785-63-2
Fe_2O_3	iron oxide	1317-60-8
	iron(III) oxide	
	hematite	
Fe_2O_3	venetian red	8011-97-0
$\text{Fe}_2\text{O}_{12}\text{S}_3$	ferric sulfate	10028-22-5
	iron(III) sulfate	
$\text{Fe}_2\text{O}_{12}\text{W}_3$	iron(III) orthotungstate	
Fe_2P	diiron phosphide	
Fe_2SiO_4	fayalite	

$\text{Fe}_3\text{H}_2\text{Na}_2\text{O}_{45}\text{Si}$	chrysotile	12001-28-4
	white asbestos	
Fe_3O_4	magnetite	1309-38-2
	triiron(II, III) tetraoxide	
Fe_3P	iron(tri) phosphide	
$\text{Fe}_7\text{Si}_8\text{O}_{24}\text{H}_2$	amosite	12172-73-5
	brown asbestos	
	grunerite	
GaAs	gallium(III) arsenide	
GaAsO_4	gallium(III) orthoarsenate	
GaBr_3	gallium(III) bromide	13450-88-9
$\text{Ga}(\text{C}_2\text{H}_3\text{O}_2)_3$	gallium(III) acetate	
GaCl_2	gallium(II) chloride	128579-09-9
GaCl_3	gallium trichloride	13450-90-3
GaI_2	gallium(II) iodide	
GaI_3	gallium(III) iodide	13450-91-4
GaN	gallium(III) nitride	
$\text{Ga}(\text{OH})_3$	gallium(III) hydroxide	
GaPO_4	gallium(III) orthophosphate	
GaSb	gallium(III) antimonide	12064-03-8
GaTe	gallium(II) telluride	12024-14-5
Ga_2O_3	gallium(III) oxide	12024-21-4
$\text{Ga}_2(\text{SO}_4)_3 \cdot 18\text{H}_2\text{O}$	gallium(III) sulfate octadecahydrate	
Ga_2S_3	gallium(III) sulfide	
Ga_2Te_3	gallium(III) telluride	
GeBr_4	germanium(IV) bromide	13450-92-5
GeH_3COOH	2-germaacetic acid	
GeI_2	germanium(II) iodide	13573-08-5
GeI_4	germanium(IV) iodide	13450-95-8
GeO	germanium(II) oxide	20619-16-3
HAt	hydrogen astatide	
HBr	hydrogen bromide	10035-10-6
	hydrobromic acid	
HCCH	acetylene	
	ethyne	
HCN	hydrocyanic acid	71116911

HCN	hydrogen cyanide	77470914
HCONH ₂	formamide	
	methanamide	
HCOO ⁻	formate ion	
HCOOH	formic acid	
	methanoic acid	
HCOONH ₄	ammonium formate	
HCO ₃ ⁻	hydrogen carbonate ion	
HC ₃ H ₅ O ₃	lactic acid	
HC ₅ H ₅ N ⁺	pyridinium ion	
HC ₆ H ₇ O ₆	ascorbic acid	
HC ₉ H ₇ O ₄	acetylsalicylic acid	
HC ₁₂ H ₁₇ ON ₄ SCl ₂	thiamine hydrochloride	
	vitamin B ₁ hydrochloride	
HCl	hydrochloric acid	7647-01-0
	hydrogen chloride	
HCIO	hypochlorous acid	7790-92-3
HCIO ₂	chlorous acid	13898-47-0
HCIO ₃	chloric acid	7790-93-4
HCIO ₄	perchloric acid	7601-90-3
HDO	semiheavy water	14940-63-7
	water-d1	
HF	hydrofluoric acid	7664-39-3
HI	hydroiodic acid	10034-85-2
HIO ₃	iodic acid	
HNO ₂	nitrous acid	7782-77-6
HNO ₃	nitric acid	7697-37-2
	hydrogen nitrate	
HN ₃	hydrazoic acid	7782-79-8
HOCl	hypochlorous acid	7790-92-3
HOFl	hypofluorous acid	14034-79-8
HOCCOOH	oxalic acid	
HPO ₄ ²⁻	hydrogen phosphate ion	
HSO ₃ ⁻	hydrogen sulfite ion	
HSO ₄ ⁻	hydrogen sulfate	
HTO	partially tritiated water	13670-17-2
	water-t	

H ₂	hydrogen	1333-74-0
H ₂ C(CH)CN	acrylonitrile	
H ₂ CO	formaldehyde	19710-56-6
H ₂ CO ₃	carbonic acid	107-32-4
H ₂ CSO	sulfine	40100-16-1
H ₂ C ₂ O ₄	oxalic acid	144-62-7
H ₂ C ₄ H ₄ O ₆	tartaric acid	
H ₂ C ₈ H ₄ O ₄	phthalic acid	
	H ₂ Ph	
H ₂ CrO ₄	chromic acid	
H ₂ NCH ₂ COOH	glycine	
H ₂ NNH ₂	hydrazine	
H ₂ O	water	7732-18-5
H ₂ O ₂	hydrogen peroxide	7722-84-1
H ₂ PO ₄ ⁻	dihydrogen phosphate ion	
H ₂ S	hydrogen sulfide	6/4/7783
	hydrosulfuric acid	
H ₂ SO ₃	sulfurous acid	
H ₂ SO ₄	sulfuric acid	7664-93-9
	hydrogen sulfate	
H ₂ S ₂ O ₇	disulfuric acid	
H ₂ S ₂ O ₈	peroxydisulfuric acid	
H ₂ SeO ₃	selenous acid	
H ₂ SeO ₄	selenic acid	
H ₂ SiO ₃	silicic acid	7699-41-4
H ₂ TeO ₃	tellurous acid	
H ₂ TiO ₃	titanic acid	
H ₃ AsO ₄	arsenic acid	
H ₃ CCH ₂ CH ₃	propane	
H ₃ N ⁺ CH ₂ COO ⁻	zwitterion	
H ₃ O ⁺	hydronium ion	
H ₃ PO ₄	phosphoric acid	7664-38-2
H ₄ XeO ₆	perxenic acid	

H_6TeO_6	telluric acid	
HfBr_4	hafnium(IV) bromide	13777-22-5
HfF_4	hafnium(IV) fluoride	13709-52-9
$\text{HfOCl}_2 \cdot 8\text{H}_2\text{O}$	hafnium(IV) oxychloride octahydrate	
$\text{HfOH}(\text{C}_2\text{H}_3\text{O}_2)_3$	hafnium(IV) acetate, basic	
$\text{Hf}(\text{SO}_4)_2$	hafnium(IV) sulfate	
$\text{Hg}(\text{BrO}_3)_2 \cdot 2\text{H}_2\text{O}$	mercury(II) bromate dihydrate	
HgBr_2	mercury(II) bromide	7789-47-1
$\text{Hg}(\text{C}_2\text{H}_3\text{O}_2)_2$	mercury(II) acetate	
$\text{Hg}(\text{C}_7\text{H}_5\text{O}_2)_2 \cdot \text{H}_2\text{O}$	mercury(II) benzoate monohydrate	
$\text{HgClO}_4 \cdot 4\text{H}_2\text{O}$	mercury(I) perchlorate tetrahydrate	
$\text{Hg}(\text{ClO}_4)_2 \cdot 3\text{H}_2\text{O}$	mercury(II) perchlorate trihydrate	
HgCl_2	mercury(II) chloride	7487-94-7
$\text{Hg}(\text{IO}_3)_2$	mercury(II) iodate	
HgI_2	mercury(II) iodide	7774-29-0
$\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$	mercury(II) nitrate monohydrate	
$\text{Hg}(\text{CNO})_2$	mercury(II) fulminate	628-86-4
HgO	mercury(II) oxide	21908-53-2
HgS	mercury(II) sulfide	
	cinnabar	
$\text{Hg}(\text{SCN})_2$	mercury(II) thiocyanate	
HgSe	mercury(II) selenide	
HgSeO_3	mercury(II) selenite	
HgTe	mercury(II) telluride	
HgTeO_3	mercury(II) tellurite	
HgWO_4	mercury(II) tungstate	
Hg_2Br_2	mercury(I) bromide	15385-58-7
Hg_2Cl_2	mercury(I) chloride	10112-91-1
Hg_2I_2	mercury(I) iodide	15385-57-6
$\text{Hg}_3(\text{AsO}_4)_2$	mercury(II) orthoarsenate	

I ₂	iodine(I) bromide	7789-33-5
I ₂ Br ₃	iodine(III) bromide	
ICl	iodine monochloride	7790-99-0
ICl ₃	iodine(III) chloride	
IO ₃ ⁻	iodate ion	
I ₂	iodine	7553-56-2
I ₃ ⁻	triiodide ion	
InAs	indium(III) arsenide	
InBr	indium(I) bromide	14280-53-6
InBrI ₂	indium(III) bromodiodide	
InBr ₂ I	indium(III) dibromiodide	
InBr ₃	indium(III) bromide	13465-09-3
InCl	indium(I) chloride	13465-10-6
InCl ₂	indium(II) chloride	
InCl ₃	indium(III) chloride	10025-82-8
InCl ₃ ·4H ₂ O	indium(III) chloride tetrahydrate	
InI	indium(I) iodide	13966-94-4
In(IO ₃) ₃	indium(III) iodate	
InI ₂	indium(II) iodide	
InI ₃	indium(III) iodide	13510-35-5
In(NO ₃) ₃ ·4.5H ₂ O	indium(III) nitrate tetrahemihydrate	
In(OH) ₃	indium(III) hydroxide	
InP	indium(III) phosphide	22398-80-7
InPO ₄	indium(III) orthophosphate	
InS	indium(II) sulfide	12030-14-7
InSb	indium(III) antimonide	1312-41-0
InTe	indium(II) telluride	12030-19-2
In ₂ O ₃	indium(III) oxide	1312-43-2
In ₂ (SO ₄) ₃ ·H ₂ O	indium(III) sulfate monohydrate	
In ₂ S ₃	indium(III) sulfide	
In ₂ Se ₃	indium(III) selenide	
In ₂ Te ₃	indium(III) telluride	
KCN	potassium cyanide	151-50-8

KCNS	potassium thiocyanate	333-20-0
KCl	potassium chloride	7447-40-7
KClO ₃	potassium chlorate	4/9/3811
KClO ₄	potassium perchlorate	7778-74-7
KF	potassium fluoride	13455-21-1
KMnO ₄	potassium permanganate	7722-64-7
K ₂ MnO ₄	potassium manganate	10294-64-1
KrF ₂	krypton difluoride	13773-81-4
LaCl ₃	lanthanum(III) chloride	10099-58-8
LaPO ₄	lanthanum(III) phosphate	14913-14-5
LaPO ₄ ·0.5H ₂ O	lanthanum(III) phosphate crystal hemihydrate	
Li(AlSi ₂ O ₆)	keatite	
LiBr	lithium bromide	7550-35-8
LiBr·2H ₂ O	lithium bromide dihydrate	
LiBrO ₃	lithium bromate	
LiCN	lithium cyanide	
LiC ₂ H ₅ O	lithium ethoxide	
LiF	lithium fluoride	7789-24-4
LiHSO ₄	lithium hydrogen sulfate	
LiIO ₃	lithium iodate	
LiNa	sodium lithium	
LiNO ₃	lithium nitrate	
LiNO ₃ ·H ₂ O	lithium nitrate monohydrate	
LiTaO ₃	lithium tantalate	
	lithium metatantalate	
LiVO ₃ ·2H ₂ O	lithium metavanadate dihydrate	
Li ₂ B ₄ O ₇ ·5H ₂ O	lithium tetraborate pentahydrate	
Li ₂ CrO ₄	lithium chromate	
Li ₂ CrO ₄ ·2H ₂ O	lithium chromate dihydrate	
Li ₂ Cr ₂ O ₇	lithium dichromate	
Li ₂ MoO ₄	lithium orthomolybdate	13568-40-6
Li ₂ NbO ₃	lithium metaniobate	
Li ₂ SO ₄	lithium sulfate	10377-48-7

Li_2SeO_3	lithium selenite	
Li_2SeO_4	lithium selenate	
Li_2SiO_3	lithium metasilicate	10102-24-6
lithium orthosilicate		
Li_2TeO_3	lithium tellurite	
Li_2TeO_4	lithium tellurate	
Li_2TiO_3	lithium metatitanate	12031-82-2
Li_2WO_4	lithium orthotungstate	13568-45-1
Li_2ZrO_3	lithium metazirconate	
$\text{Mg}(\text{AlO}_2)_2$	magnesium aluminate	
As_2Mg_3	magnesium arsenide	12044-49-4
MgCO_3	magnesium carbonate	546-93-0
	magnesite	
MgC_2O_4	magnesium oxalate	
$\text{Mg}(\text{ClO}_3)_2$	magnesium chlorate	
$\text{Mg}(\text{ClO}_3)_2 \cdot x \text{H}_2\text{O}$	magnesium chlorate hydrate	
MgCl_2	magnesium chloride	7786-30-3
MgCrO_4	magnesium chromate	
$\text{MgCrO}_4 \cdot 5\text{H}_2\text{O}$	magnesium chromate pentahydrate	
MgF_2	magnesium fluoride	7783-40-6
MgI_2	magnesium iodide	10377-58-9
MgMoO_4	magnesium molybdate	
$\text{MgNH}_4\text{PO}_4 \cdot 6\text{H}_2\text{O}$	magnesium ammonium phosphate hexahydrate	
$\text{Mg}(\text{NO}_3)_2$	magnesium nitrate	
$\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$	magnesium nitrate hexahydrate	
$\text{MgNaAl}_5(\text{Si}_4\text{O}_{10})_3(\text{OH})_6$	montmorillonite (clay)	
MgO	magnesium oxide	1309-48-4
	magnesia	
	periclase	
$\text{Mg}(\text{OH})_2$	magnesium hydroxide	
	milk of magnesia	
MgPo	magnesium polonide	

MgS	magnesium sulfide	12032-36-9
MgSO ₄	magnesium sulfate	7487-88-9
MgSe	magnesium selenide	
MgSeO ₃	magnesium selenite	
MgSeO ₄	magnesium selenate	
MgSiO ₃	magnesium metasilicate	13776-74-4
	enstatite	
MgTiO ₃	magnesium metatitanate	12032-30-3
Mg(VO ₃) ₂	magnesium metavanadate	
MgWO ₄	magnesium tungstate	13573-11-0
Mg ₂ Al(AlSiO ₅)(OH) ₄	amesite	
Mg ₂ P ₂ O ₇	magnesium pyrophosphate	
Mg ₂ SiO ₄	forsterite	10034-94-3
Mg ₃ As ₂	magnesium arsenide	
Mg ₃ Bi ₂	magnesium bismuthide	
Mg ₃ P ₂	magnesium phosphide	
Mg ₃ (Si ₂ O ₅)(OH) ₄	chrysotile	
Mg ₃ (Si ₄ O ₁₀)(OH) ₂	talc	
Mg ₃ (VO ₄) ₂	magnesium orthovanadate	
MnAs	manganese(III) arsenide	
MnBi	manganese(III) bismuthide	
MnBr ₂	manganese(II) bromide	13446-03-2
MnBr ₂ ·4H ₂ O	manganese(II) bromide tetrahydrate	
Mn(CHO ₂) ₂	manganese(II) formate	
Mn(CHO ₂) ₂ ·2H ₂ O	manganese(II) formate dihydrate	
MnCO ₃	manganese(II) carbonate	
MnCl ₂	manganese(II) chloride	1/5/7773
MnF ₂	manganese(II) fluoride	7782-64-1
MnI ₂	manganese(II) iodide	
MnMoO ₄	manganese(II) orthomolybdate	
Mn(NO ₃) ₂	manganese(II) nitrate	
Mn(NO ₃) ₂ ·4H ₂ O	manganese(II) nitrate tetrahydrate	

MnO	manganese(II) oxide	1344-43-0
Mn(OH) ₂	manganese hydroxide	
MnOOH	manganite	
MnO ₂	manganese dioxide	1313-13-9
	pyrolusite	
MnO ₄ ⁻	permanganate ion	
MnPb ₈ (Si ₂ O ₇) ₃	barysilate	
MnS	manganese sulfide	18820-29-6
MnTe	manganese(II) telluride	
MnZrO ₃	manganese(II) metazirconate	
Mn ₂ O ₃	manganese(III) oxide	
Mn ₃ As ₂	manganese(II) arsenide	
Mn ₃ O ₄	manganese(II,III) oxide	
	trimanganese tetroxide	
	hausmannite	
Mn ₃ P ₂	manganese(II) phosphide	
Mn ₃ Sb ₂	manganese(II) antimonide	
MoBr ₂	molybdenum(II) bromide	13446-56-5
MoBr ₃	molybdenum(III) bromide	13446-57-6
MoCl ₂	molybdenum(II) chloride	
MoCl ₃	molybdenum(III) chloride	
MoCl ₅	molybdenum(V) chloride	10241-05-1
MoO ₂	molybdenum(IV) oxide	18868-43-4
MoO ₄ ²⁻	molybdate ion	
MoS ₂	molybdenum sulfide	1317-33-5
	molybdenum disulfide	
	molybdenite	
Hg ₂ Br ₂	mercury(I) bromide	
NaBCl ₄	Sodium tetrachloroborate	
NH ₂ ⁻	amide ion	
NH ₂ CH ₂ CH ₂ NH ₂	ethylenediamine	
NH ₂ CONH ₂	urea	
NH ₂ C ₆ H ₄ SO ₃ H	sulfanilic Acid	
NH ₂ OH	hydroxylamine	

$(\text{NH}_2)_2\text{CO}$	urea	
NH_3	ammonia	7664-41-7
NH_4^+	ammonium ion	
$(\text{NH}_4)_3\text{N}$	ammonium nitride	
NH_4Br	ammonium bromide	12124-97-9
$\text{NH}_4\text{CO}_2\text{NH}_2$	ammonium carbamate	
$(\text{NH}_4)_2\text{CO}_3$	ammonium carbonate	
NH_4Cl	ammonium chloride	12125-02-9
NH_4ClO_4	Ammonium perchlorate	7790-98-9
NH_4HS	ammonium hydrosulfide	
$(\text{NH}_4)\text{H}_2\text{AsO}_4$	ammonium dihydrogen arsenate	
NH_4NO_3	ammonium nitrate	6484-52-2
$\text{NH}_4\text{OCONH}_2$	ammonium carbamate	
$(\text{NH}_4)_2\text{Ce}(\text{NO}_3)_6$	ammonium cerium(IV) nitrate	
	ceric ammonium nitrate	
	CAN	
$(\text{NH}_4)_3\text{PO}_4$	ammonium phosphate	
$(\text{NH}_4)_2\text{CrO}_4$	ammonium chromate	
$(\text{NH}_4)_2\text{Hg}(\text{SCN})_4$	mercury(II) ammonium thiocyanate	
$(\text{NH}_4)_2[\text{PtCl}_6]$	ammonium hexachloroplatinate(IV)	
$(\text{NH}_4)_2[\text{Pt}(\text{SCN})_6]$	ammonium hexathiocyanoplatinate(IV)	
$(\text{NH}_4)_2\text{SO}_4$	ammonium sulfate	
NI_3	nitrogen triiodide	
NO	nitric oxide	10102-43-9
	nitrogen oxide	
	nitrogen(II) oxide	
NO_2	nitrogen dioxide	10102-44-0
	nitrogen(IV) oxide	
NO_2^-	nitrite ion	
NO_2Cl	nitryl chloride	13444-90-1
NO_3^-	nitrate ion	

N ₂	nitrogen	7727-37-9
N ₂ H ₄	hydrazine	302-01-2
N ₂ O	nitrous oxide	10024-97-2
	dinitrogen oxide	
	nitrogen(I) oxide	
N ₂ O ₃	dinitrogen trioxide	10544-73-7
	nitrogen(III) oxide	
N ₂ O ₄	dinitrogen tetroxide	10544-72-6
	nitrogen(IV) oxide	
N ₂ O ₅	dinitrogen pentaoxide	10102-03-1
	nitrogen(V) oxide	
N ₄ H ₄	<i>trans</i> -tetrazene	54410-57-0
NaAlSi ₃ O ₃	albite	
NaAsO ₂	sodium metaarsenite	
NaAu(CN) ₂	sodium dicyanoaurate(I)	
Na ₂ Cr ₂ O ₇ · 2H ₂ O	Sodium dichromate dihydrate	10588-01-9
Na[B(NO ₃) ₄]	sodium tetranitratoborate(III)	
NaBr	sodium bromide	7647-15-6
NaCN	sodium cyanide	143-33-9
NaC ₆ F ₅ COO	pentafluorobenzoate	
NaC ₆ H ₅ COO	sodium benzoate	
NaCa ₂ (Al ₅ Si ₅ O ₂₀) · 6H ₂ O	thomsonite	
NaCl	sodium chloride	7647-14-5
	rock-salt	
	halite	
NaH	sodium hydride	7646-69-7
NaHCOO	sodium formate	
NaHCO ₃	sodium bicarbonate	144-55-8
	baking soda	
NaI	sodium iodide	7681-82-5
NaNH ₂ C ₆ H ₄ SO ₃	sodium sulfanilate	
NaNO ₃	sodium nitrate	
NaNbO ₃	sodium metaniobate	
NaNbO ₃ · 7H ₂ O	sodium metaniobate heptahydrate	
NaOCl	sodium hypochlorite	7681-52-9
NaOH	sodium hydroxide	1310-73-2

$\text{NaO}_2\text{As}(\text{CH}_3)_2 \cdot 3\text{H}_2\text{O}$	sodium salt of cacodylic acid	
NaSeO_3	sodium selenite	
NaTaO_3	sodium metatantalate	
NaVO_3	sodium metavanadate	
Na_2CO_3	sodium carbonate	497-19-8
	soda ash	
$\text{Na}_2\text{C}_2\text{O}_4$	sodium oxalate	62-76-0
Na_2MoS_4	sodium thiomolybdate	
Na_2O_2	sodium peroxide	1313-60-6
Na_2O	sodium oxide	
Na_2S	sodium monosulfide	1313-82-2
Na_2SO_4	sodium sulfate	7757-82-6
	salt cake	
$\text{Na}_2\text{S}_2\text{O}_3$	sodium thiosulfate	
$\text{Na}_2\text{S}_2\text{O}_5$	sodium disulfite	7681-57-4
Na_2S_4	sodium tetrasulfide	
Na_2SeO_3	sodium selenite	10102-18-8
Na_2SeO_4	sodium selenate	
Na_2TeO_3	sodium tellurite	
Na_2TeO_4	sodium tellurate	
Na_2TiO_3	sodium metatitanate	
Na_2ZnO_2	sodium zincate	
Na_2ZrO_3	sodium metazirconate	
Na_3AlF_6	cryolite	15096-52-3
$\text{Na}_3[\text{Co}(\text{CO}_3)_3]$	sodium tricarbonatocobaltate(III)	
Na_3VO_4	sodium orthovanadate	
$\text{Na}_4\text{V}_2\text{O}_7$	sodium pyrovanadate	
NbBr_5	niobium(V) bromide	13478-45-0
NbCl_3	niobium(III) chloride	
NbCl_5	niobium(V) chloride	10026-12-7
NbI_5	niobium(V) iodide	
Nb_2O_3	niobium(III) oxide	

NdCl ₂	neodymium(II) chloride	25469-93-6
	neodymium dichloride	
NdI ₂	neodymium(III) iodide	
	neodymium diiodide	
Nd(OH) ₃	neodymium hydroxide	
Nd ₂ O ₃	neodymium(III) oxide	
	dineodymium trioxide	
NiAs	nickel(III) arsenide	
NiAsS	nickel arsenic sulfide	
	gersdorffite	
NiBr ₂	nickel(II) bromide	13462-88-9
NiBr ₂ · 3H ₂ O	nickel(II) bromide trihydrate	
NiBr ₂ · 6H ₂ O	nickel(II) bromide hexahydrate	
Ni(CO) ₄	nickel tetracarbonyl	
NiC ₂ O ₄ · 2H ₂ O	nickel(II) oxalate dihydrate	
NiCl ₂	nickel(II) chloride	7718-54-9
NiFe ₂ O ₄	nickel(II) iron(III) oxide	
NiI ₂	nickel(II) iodide	
Ni(H ₂ PO) ₂ · 6H ₂ O	nickel(II) hypophosphite hexahydrate	
NiMoO ₄	nickel(II) orthomolybdate	
Ni(NO ₃) ₂ · 6H ₂ O	nickel(II) nitrate hexahydrate	
NiOOH	nickel oxo-hydroxide	
NiO	nickel(II) oxide	1313-99-1
Ni(OH) ₂	nickel(II) hydroxide	
NiS	nickel(II) sulfide	16812-54-7
	millerite	
NiSO ₄	nickel sulfate	
NiS ₂	nickel sulfide	12035-51-7
NiSe	nickel(II) selenide	
NiTlO ₃	nickel(II) metatitanate	
Ni(VO ₃) ₂	nickel(II) metavanadate	
NiWO ₄	nickel(II) orthotungstate	
Ni ₂ SiO ₄	nickel(II) orthosilicate	
Ni ₃ (PO ₄) ₂	nickel(II) orthophosphate	

Ni_3Sb_2	nickel(II) antimonide	
O	oxygen	7782-44-7
O ₂	dioxygen	
O ₂ ⁻	superoxide ion	
O ₂ ²⁻	peroxide ion	
OF ₂	oxygen difluoride	7783-41-7
O ₂ F ₂	dioxygen difluoride	7783-44-0
OH ⁻	hydroxide ion	
O ₃	ozone	10028-15-6
O ₃ ⁻	ozonide ion	
P ₂ I ₄	diphosphorus tetraiodine	
P ₂ S ₃	diphosphorus trisulfide	
P ₂ Se ₃	diphosphorus triselenide	
P ₃ N ₅	phosphorus nitride	
PH ₃	phosphine	
POCl ₃	phosphoryl chloride	10025-87-3
Pb(IO ₃) ₂	lead(II) iodate	
Pb(N ₃) ₂	lead(II) nitride	
Pb(NO ₃) ₂	lead(II) nitrate	
Pb(OH) ₂	lead(II) hydroxide	
Pb(OH) ₄	plumbic acid	
PbC ₂ O ₄	lead oxalate	
PbCO ₃	lead carbonate	
PbCrO ₄	lead chromate	
PbF ₂	lead(II) fluoride	
PbI ₂	lead(II) iodide	
PbO	lead(II) oxide	
PbO ₂	lead dioxide	
PbS	lead(II) sulfide	
PbSO ₄	lead(II) sulfate	7446-14-2
PoBr ₂	polonium dibromide	66794-54-5
PoCl ₂	polonium dichloride	
PoCl ₄	polonium tetrachloride	10026-02-5

PoF ₆	polonium hexafluoride	35473-38-2
PoH ₂	polonium hydride	31060-73-8
PoO	polonium monoxide	
PoO ₂	polonium dioxide	6/2/7446
PoO ₃	polonium trioxide	
RnF ₂	radon difluoride	
RuCl ₃	ruthenium(III) chloride	
RuF ₆	ruthenium hexafluoride	13693-08-8
RuO ₄	ruthenium tetroxide	20427-56-9
SCN ⁻	thiocyanate	
SF ₄	sulfur tetrafluoride	
SF ₆	sulfur hexafluoride	2551-62-4
SOF ₂	thionyl difluoride	7783-42-8
SO ₂	sulfur dioxide	9/5/7446
SO ₂ Cl ₂	sulfuryl chloride	7791-25-5
SO ₂ F ₂	sulfuryl difluoride	2699-79-8
SO ₂ OOH ⁻	peroxymonosulfurous acid (aqueous)	
SO ₃	sulfur trioxide	11/9/7446
SO ₃ ²⁻	sulfite ion	
SO ₄ ²⁻	sulfate ion	
S ₂ Br ₂	sulfur(II) bromide	71677-14-0
S ₂ O ₃ ²⁻	thiosulfate ion	
S ₂ O ₇ ²⁻	disulfate ion	
SbBr ₃	antimony(III) bromide	7789-61-9
SbCl ₃	antimony(III) chloride	10025-91-9
SbCl ₅	antimony(V) chloride	7647-18-9
SbI ₃	antimony(III) iodide	7790-44-5
SbPO ₄	antimony(III) phosphate	
Sb ₂ OS ₂	antimony oxysulfide	
	kermesite	
Sb ₂ O ₃	antimony(III) oxide	1309-64-4
Sb ₂ O ₅	antimony(V) oxide	

Sb_2S_3	antimony(III) sulfide	1345-04-6
Sb_2Se_3	antimony(III) selenide	1315-05-5
Sb_2Se_5	antimony(V) selenide	
Sb_2Te_3	antimony(III) telluride	
Sc_2O_3	scandium oxide	
	scandia	
SeBr_4	selenium(IV) bromide	
SeCl	selenium(I) chloride	
SeCl_4	selenium(IV) chloride	10026-03-6
SeOCl_2	selenium(IV) oxychloride	7791-23-3
SeOF_2	selenyl difluoride	
SeO_2	selenium(IV) oxide	8/4/7446
SeO_4^{2-}	selenate ion	
SeTe	selenium(IV) telluride	12067-42-4
SiBr_4	silicon(IV) bromide	7789-66-4
SiC	silicon carbide	409-21-2
SiCl_4	silicon(IV) chloride	10026-04-7
SiH_4	silane	7803-62-5
SiI_4	silicon(IV) iodide	13465-84-4
SiO_2	silicon(IV) dioxide	7631-86-9
	silica	
	quartz	
SiO_4^{4-}	silicate ion	
$\text{Si}_2\text{O}_7^{6-}$	disilicate ion	
Si_3N_4	silicon nitride	12033-89-5
$\text{Si}_6\text{O}_{18}^{12-}$	cyclosilicate ion	
SnBrCl_3	tin(IV) bromotrichloride	
SnBr_2	tin(II) bromide	10031-24-0
SnBr_2Cl_2	tin(IV) dibromodichloride	
SnBr_3Cl	tin(IV) tribromochloride	14779-73-8
SnBr_4	tin(IV) bromide	7789-67-5
SnCl_2	tin(II) chloride	7772-99-8
SnCl_2I_2	tin(IV) dichlorodiiodide	
SnCl_4	tin(IV) chloride	7646-78-8

$\text{Sn}(\text{CrO}_4)_2$	tin(IV) chromate	
SnI_4	tin(IV) iodide	7790-47-8
SnO_2	tin(IV) oxide	18282-10-5
SnO_3^{2-}	stannate ion	
SnS	tin(II) sulfide	1314-95-0
SnS_2	tin(IV) sulfide	
$\text{Sn}(\text{SO}_4)_2 \cdot 2\text{H}_2\text{O}$	tin(IV) sulfate dihydrate	
SnSe	tin(II) selenide	1315-06-6
SnSe_2	tin(IV) selenide	
SnTe	tin(II) telluride	12040-02-7
SnTe_4	tin(IV) telluride	
$\text{Sn}(\text{VO}_3)_2$	tin(II) metavanadate	
Sn_3Sb_4	tin(IV) antimonide	
SrBr_2	strontium bromide	10476-81-0
$\text{SrBr}_2 \cdot 6\text{H}_2\text{O}$	strontium bromide hexahydrate	
SrCO_3	strontium carbonate	
SrCl_2	strontium chloride	
SrC_2O_4	strontium oxalate	
SrF_2	strontium fluoride	7783-48-4
SrI_2	strontium iodide	10476-86-5
$\text{SrI}_2 \cdot 6\text{H}_2\text{O}$	strontium iodide hexahydrate	
$\text{Sr}(\text{MnO}_4)_2$	strontium permanganate	
SrMoO_4	strontium orthomolybdate	13470-04-7
$\text{Sr}(\text{NbO}_3)_2$	strontium metaniobate	
SrO	strontium oxide	1314-11-0
Sr_2RuO_4	strontium ruthenate	
SrS	strontium sulfide	1314-96-1
SrSeO_3	strontium selenite	
SrSeO_4	strontium selenate	
SrTeO_3	strontium tellurite	
SrTeO_4	strontium tellurate	
SrTiO_3	strontium metatitanate	
T_2O	tritium oxide	14040-65-0

T ₂	tritiated water	14540-05-5
TaBr ₃	tantalum(III) bromide	
TaBr ₅	tantalum(V) bromide	
TaCl ₅	tantalum(V) chloride	1/9/7721
TaI ₅	tantalum(V) iodide	
TaO ₃ ⁻	tantalate ion	
TcO ₄ ⁻	pertechnetate ion	
TeBr ₂	tellurium(II) bromide	
TeBr ₂	tellurium(II) bromide	
TeBr ₄	tellurium(IV) bromide	
TeCl ₂	tellurium(II) chloride	
TeCl ₄	tellurium(IV) chloride	10026-07-0
Tel ₂	tellurium(II) iodide	
Tel ₄	tellurium(IV) iodide	
TeO ₂	tellurium(IV) oxide	7/3/7446
TeO ₄ ⁻	tellurate ion	
TeY	yttrium telluride	12187-04-1
Th(CO ₃) ₂	thorium carbonate	19024-62-5
Th(NO ₃) ₄	thorium nitrate	13823-29-5
TiBr ₄	titanium(IV) bromide	7789-68-6
TiCl ₂ I ₂	titanium(IV) dichlorodiiodide	
TiCl ₃ I	titanium(IV) trichloroiodide	
TiCl ₄	titanium tetrachloride	7550-45-0
TiO ₂	titanium dioxide	1317-70-0
	rutile	
TiO ₃ ²⁻	titanate ion	
TIBr	thallium(I) bromide	7789-40-4
TIBr ₃	thallium(III) bromide	
TI(CHO ₂)	thallium(I) formate	
TIC ₂ H ₃ O ₂	thallium(I) acetate	563-68-8
TI(C ₃ H ₃ O ₄)	thallium(I) malonate	
TICl	thallium(I) chloride	7791-12-0
TICl ₃	thallium(III) chloride	

TlF	thallium(I) fluoride	7789-27-7
TlI	thallium(I) iodide	7790-30-9
TlIO ₃	thallium(I) iodate	
TlI ₃	thallium(III) iodide	
TiI ₄	titanium(IV) iodide	7720-83-4
TiO(NO ₃) ₂ · x H ₂ O	titanium(IV) oxynitrate hydrate	
TlNO ₃	thallium(I) nitrate	10102-45-1
TlOH	thallium(I) hydroxide	
TlPF ₆	thallium(I) hexafluorophosphate	60969-19-9
TlSCN	thallium thiocyanate	
Tl ₂ MoO ₄	thallium(I) orthomolybdate	
Tl ₂ SeO ₃	thallium(I) selenite	
Tl ₂ TeO ₃	thallium(I) tellurite	
Tl ₂ WO ₄	thallium(I) orthotungstate	
Tl ₃ As	thallium(I) arsenide	
UF ₄	uranium(IV) fluoride	10049-14-6
UF ₆	uranium(VI) fluoride	7783-81-5
VBr ₂	vanadium(II) bromide	
VBr ₃	vanadium(III) bromide	
VCl ₂	vanadium(II) chloride	10580-52-6
VCl ₃	vanadium(III) chloride	7718-98-1
VSO ₅	vanadium oxysulfate	27774-13-6
V ₂ O ₃	vanadium(III) oxide	1314-34-7
V ₂ O ₅	vanadium pentoxide	1314-62-1
V ₂ O ₇ ⁴⁻	divanadate ion	
	pyrovanadate ion	
WBr ₂	tungsten(II) bromide	13470-10-5
WBr ₃	tungsten(III) bromide	15163-24-3
WBr ₄	tungsten(IV) bromide	14055-81-3
WBr ₅	tungsten(V) bromide	13470-11-6
WBr ₆	tungsten(VI) bromide	13701-86-5
W(CO) ₆	tungsten(VI) carbonyl	14040-11-0
WCl ₂	tungsten(II) chloride	13470-12-7

WCl_3	tungsten(III) chloride	20193-56-0
WCl_4	tungsten(IV) chloride	13470-13-8
WCl_5	tungsten(V) chloride	13470-14-9
WCl_6	tungsten(VI) chloride	13283-01-7
WF_4	tungsten(IV) fluoride	13766-47-7
WF_5	tungsten(V) fluoride	19357-83-6
WF_6	tungsten(VI) fluoride	7783-82-6
WI_2	tungsten(II) iodide	13470-17-2
WI_4	tungsten(IV) iodide	14055-84-6
WOBr_3	tungsten(V) oxytribromide	20213-56-3
WOBr_4	tungsten(VI) oxytetrabromide	13520-77-9
WOCl_3	tungsten(V) oxytrichloride	14249-98-0
WOCl_4	tungsten(VI) oxytetrachloride	13520-78-0
WOF_2	tungsten(VI) oxytetrafluoride	13520-79-1
WO_2	tungsten(IV) oxide	12036-22-5
WO_2Br_2	tungsten(VI) dioxydibromide	13520-75-7
WO_2Cl_2	tungsten(VI) dioxydichloride	13520-76-8
WO_2I_2	tungsten(VI) dioxydiiodide	14447-89-3
WO_3	tungsten(VI) oxide	1314-35-8
WO_4^{2-}	tungstate ion	
WS_2	tungsten(IV) sulfide	12138-09-9
WS_3	tungsten(VI) sulfide	12125-19-8
WSe_2	tungsten(IV) selenide	12067-46-8
WTe_2	tungsten(IV) telluride	12067-76-4
W_2C	tungsten carbide	12070-13-2
YAs	yttrium arsenide	12255-48-0
YB_6	yttrium boride	12008-32-1
YBr_3	yttrium bromide	13469-98-2
YC_2	yttrium carbide	12071-35-1
YCl_3	yttrium chloride	10361-92-9

YF ₃	yttrium fluoride	13709-49-4
YP	yttrium phosphide	12294-01-8
YSb	yttrium antimonide	12186-97-9
YVO ₄	yttrium vanadate	13566-12-6
Y ₂ O ₃	yttria	1314-36-9
	yttrium oxide	
Y ₂ S ₃	yttrium sulfide	12039-19-9
YbBr ₂	ytterbium(II) bromide	25502-05-0
YbBr ₃	ytterbium(III) bromide	13759-89-2
YbCl ₂	ytterbium(II)chloride	13874-77-6
YbCl ₃	ytterbium(III) chloride	10361-91-8
YbCl ₃ ·6H ₂ O	ytterbium(III) chloride hexahydrate	19423-87-1
YbF ₂	ytterbium(II) fluoride	15192-18-4
YbF ₃	ytterbium(III) fluoride	13760-80-0
YbI ₂	ytterbium(II) iodide	19357-86-9
YbI ₃	ytterbium(III) iodide	13813-44-0
YbSe	ytterbium(II) selenide	12039-54-2
YbSi ₂	ytterbium(II) silicide	12039-89-3
Yb ₂ O ₃	ytterbium(III) oxide	1314-37-0
Yb ₂ S ₃	ytterbium(III) sulfide	12039-20-2
Yb ₂ Se ₃	ytterbium(III) selenide	12166-52-8
YbTe	ytterbium(II) telluride	12125-58-5
Zn(AlO ₂) ₂	zinc aluminate	68186-87-8
Zn(AsO ₂) ₂	zinc arsenite	10326-24-6
ZnBr ₂	zinc bromide	7699-45-8
Zn(CN) ₂	zinc cyanide	557-21-1
ZnCO ₃	zinc carbonate	3486-35-9
Zn(C ₈ H ₁₅ O ₂) ₂	zinc caprylate	557-09-5
Zn(ClO ₃) ₂	zinc chlorate	10361-95-2
ZnCl ₂	zinc chloride	7646-85-7
ZnCr ₂ O ₄	zinc chromite	12018-19-8
ZnF ₂	zinc fluoride	7783-49-5
Zn(IO ₃) ₂	zinc iodate	7790-37-6

ZnI_2	zinc iodide	10139-47-6
ZnMoO_4	zinc orthomolybdate	7783-20-2
$\text{Zn(NO}_2)_2$	zinc nitrite	10102-02-0
$\text{Zn(NO}_3)_2$	zinc nitrate	7779-88-6
$\text{Zn(NbO}_3)_2$	zinc metaniobate	
ZnO	zinc(II) oxide	1314-13-2
	zinc oxide	
ZnO_2	zinc peroxide	1314-22-3
Zn(OH)_2	zinc hydroxide	20427-58-1
Zn(OH)_4^{2-}	zincate ion	
ZnS	zinc sulfide	1314-98-3
	sphalerite	
Zn(SCN)_2	zinc thiocyanate	557-42-6
ZnSO_4	zinc sulfate	7733-02-0
ZnSb	zinc antimonide	12039-35-9
ZnSe	zinc selenide	1315-09-9
ZnSeO_3	zinc selenite	13597-46-1
ZnSnO_3	zinc stannate	12036-37-2
$\text{Zn(TaO}_3)_2$	zinc metatantalate	
ZnTe	zinc telluride	1315-11-3
ZnTeO_3	zinc tellurite	
ZnTeO_4	zinc tellurate	
ZnTiO_3	zinc metatitanate	
$\text{Zn(VO}_3)_2$	zinc metavanadate	
ZnWO_4	zinc orthotungstate	
ZnZrO_3	zinc metazirconate	
$\text{Zn}_2\text{P}_2\text{O}_7$	zinc pyrophosphate	7446-26-6
Zn_2SiO_4	zinc orthosilicate	13597-65-4
$\text{Zn}_3(\text{AsO}_4)_2$	zinc arsenate	13464-44-3
Zn_3As_2	zinc arsenide	
Zn_3N_2	zinc nitride	1313-49-1
Zn_3P_2	zinc phosphide	1314-84-7
$\text{Zn}_3(\text{PO}_4)_2$	zinc phosphate	7779-90-0
Zn_3Sb_2	zinc antimonide	

ZrB ₂	zirconium boride	12045-64-6
ZrBr ₄	zirconium bromide	13777-25-8
ZrC	zirconium carbide	12020-14-3
ZrCl ₄	zirconium tetrachloride	10026-11-6
ZrF ₄	zirconium fluoride	7783-64-4
ZrI ₄	zirconium iodide	13986-26-0
ZrN	zirconium nitride	25658-42-8
Zr(OH) ₄	zirconium hydroxide	14475-63-9
ZrO ₂	zirconium dioxide	1314-23-4
	baddeleyite	
ZrO ₃ ²⁻	zirconate ion	
ZrP ₂	zirconium phosphide	12037-80-8
ZrS ₂	zirconium sulfide	12039-15-5
ZrSi ₂	zirconium silicide	12039-90-6
ZrSiO ₄	zirconium orthosilicate	10101-52-7
Zr ₃ (PO ₄) ₄	zirconium phosphate	13765-95-2

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