

List of chemical elements

This is a list of the 118 [chemical elements](#) which have been [identified](#) as of 2022. A chemical element, often simply called an element, is a type of [atom](#) which has the same number of [protons](#) in its [atomic nucleus](#) (i.e., the same [atomic number](#), or *Z*).^[1]

A popular visualization of all 118 elements is the [periodic table of the elements](#), a convenient tabular arrangement of the elements by their chemical properties that uses abbreviated [chemical symbols](#) in place of full element names, but the simpler list format presented here may also be useful. Like the periodic table, the list below organizes the elements by the number of protons in their atoms; it can also be organized by other properties, such as [atomic weight](#), [density](#), and [electronegativity](#). For more detailed information about the origins of element names, see [List of chemical element name etymologies](#).

List

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
1	H	Hydrogen	Greek elements <i>hydro-</i> and <i>-gen</i> , 'water-forming'	1	1	s-block	1.0080	0.000 089 88	14.01	20.2
2	He	Helium	Greek <i>hḗlios</i> , 'sun'	18	1	s-block	4.0026	0.000 1785	−[k]	4.2
3	Li	Lithium	Greek <i>líthos</i> , 'stone'	1	2	s-block	6.94	0.534	453.69	156
4	Be	Beryllium	<i>Beryl</i> , a mineral (ultimately from the name of <i>Belur</i> in southern India) ^[4]	2	2	s-block	9.0122	1.85	1560	274
5	B	Boron	<i>Borax</i> , a mineral (from Arabic <i>bawraq</i> , Middle Persian <i>*bōrag</i>)	13	2	p-block	10.81	2.34	2349	420
6	C	Carbon	Latin <i>carbo</i> , 'coal'	14	2	p-block	12.011	2.267	>4000	430
7	N	Nitrogen	Greek <i>nítron</i> and <i>-gen</i> , 'niter-forming'	15	2	p-block	14.007	0.001 2506	63.15	77.3
8	O	Oxygen	Greek <i>oxy-</i> and <i>-gen</i> , 'acid-forming'	16	2	p-block	15.999	0.001 429	54.36	90.2
9	F	Fluorine	Latin <i>fluere</i> , 'to flow'	17	2	p-block	18.998	0.001 696	53.53	85.0
10	Ne	Neon	Greek <i>néon</i> , 'new'	18	2	p-block	20.180	0.000 9002	24.56	27.0

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
11	Na	Sodium	English (from medieval Latin) <i>soda</i> · Symbol Na is derived from New Latin <i>natrium</i> , coined from German <i>Natron</i> , 'natron'	1	3	s-block	22.990	0.968	370.87	1155
12	Mg	Magnesium	Magnesia , a district of Eastern Thessaly in Greece	2	3	s-block	24.305	1.738	923	1363
13	Al	Aluminium	Alumina , from Latin <i>alumen</i> (gen. <i>aluminis</i>), 'bitter salt, alum '	13	3	p-block	26.982	2.70	933.47	2743
14	Si	Silicon	Latin <i>silex</i> , ' flint ' (originally <i>silicium</i>)	14	3	p-block	28.085	2.3290	1687	3570
15	P	Phosphorus	Greek <i>phōsphōros</i> , 'light-bearing'	15	3	p-block	30.974	1.823	317.30	550
16	S	Sulfur	Latin <i>sulphur</i> , 'brimstone'	16	3	p-block	32.06	2.07	388.36	717.8
17	Cl	Chlorine	Greek <i>chlōrós</i> , 'greenish yellow'	17	3	p-block	35.45	0.0032	171.6	239.1

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
18	Ar	Argon	Greek <i>argós</i> , 'idle' (because of its inertness)	18	3	p-block	39.95	0.001 784	83.80	87.3
19	K	Potassium	New Latin <i>potassa</i> , 'potash', itself from <i>pot</i> and <i>ash</i> <ul style="list-style-type: none"> Symbol K is derived from Latin <i>kalium</i> 	1	4	s-block	39.098	0.89	336.53	1038
20	Ca	Calcium	Latin <i>calx</i> , 'lime'	2	4	s-block	40.078	1.55	1115	1757
21	Sc	Scandium	Latin <i>Scandia</i> , 'Scandinavia'	3	4	d-block	44.956	2.985	1814	3109
22	Ti	Titanium	Titans , the sons of the Earth goddess of Greek mythology	4	4	d-block	47.867	4.506	1941	3568
23	V	Vanadium	Vanadis , an Old Norse name for the Scandinavian goddess <i>Freyja</i>	5	4	d-block	50.942	6.11	2183	3680
24	Cr	Chromium	Greek <i>chróma</i> , 'colour'	6	4	d-block	51.996	7.15	2180	2900

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
25	Mn	Manganese	Corrupted from <i>magnesia negra</i> ; see § magnesium	7	4	d-block	54.938	7.21	1519	2335
26	Fe	Iron	English word, from Proto-Celtic * <i>īsarnom</i> ('iron'), from a root meaning 'blood' · Symbol Fe is derived from Latin <i>ferrum</i>	8	4	d-block	55.845	7.874	1811	3135
27	Co	Cobalt	German <i>Kobold</i> , 'goblin'	9	4	d-block	58.933	8.90	1768	3200
28	Ni	Nickel	Nickel, a mischievous sprite of German miner mythology	10	4	d-block	58.693	8.908	1728	3186
29	Cu	Copper	English word, from Latin <i>cuprum</i> , from Ancient Greek Κύπρος 'Cyprus'	11	4	d-block	63.546	8.96	1 357.77	2835
30	Zn	Zinc	Most likely from German <i>Zinke</i> , 'prong' or 'tooth', though some suggest Persian <i>sang</i> , 'stone'	12	4	d-block	65.38	7.14	692.88	1180

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
31	Ga	Gallium	Latin <i>Gallia</i> , 'France'	13	4	p-block	69.723	5.91	302.9146	2673
32	Ge	Germanium	Latin <i>Germania</i> , 'Germany'	14	4	p-block	72.630	5.323	1 211.40	3100
33	As	Arsenic	French <i>arsenic</i> , from Greek <i>arsenikón</i> 'yellow arsenic' (influenced by <i>arsenikós</i> , 'masculine' or 'virile'), from a West Asian wanderword ultimately from Old Iranian <i>*zarniya-ka</i> , 'golden'	15	4	p-block	74.922	5.727	1090 ^[f]	887
34	Se	Selenium	Greek <i>selḗnē</i> , 'moon'	16	4	p-block	78.971	4.81	453	958
35	Br	Bromine	Greek <i>brômos</i> , 'stench'	17	4	p-block	79.904	3.1028	265.8	332
36	Kr	Krypton	Greek <i>kryptós</i> , 'hidden'	18	4	p-block	83.798	0.003 749	115.79	119.9
37	Rb	Rubidium	Latin <i>rubidus</i> , 'deep red'	1	5	s-block	85.468	1.532	312.46	961
38	Sr	Strontium	Strontian, a village in Scotland, where it was found	2	5	s-block	87.62	2.64	1050	1650

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
39	Y	Yttrium	Ytterby , Sweden , where it was found; see also terbium , erbium , ytterbium	3	5	d-block	88.906	4.472	1799	3605
40	Zr	Zirconium	Zircon , a mineral, from Persian <i>zargun</i> , 'gold-hued'	4	5	d-block	91.224	6.52	2128	4682
41	Nb	Niobium	Niobe , daughter of king Tantalus from Greek mythology; see also tantalum	5	5	d-block	92.906	8.57	2750	5017
42	Mo	Molybdenum	Greek <i>molybdaina</i> , 'piece of lead ', from <i>mólybdos</i> , 'lead', due to confusion with lead ore galena (PbS)	6	5	d-block	95.95	10.28	2896	4912
43	Tc	Technetium	Greek <i>tekhnētós</i> , 'artificial'	7	5	d-block	[97] ^[a]	11	2430	4544
44	Ru	Ruthenium	New Latin <i>Ruthenia</i> , 'Russia'	8	5	d-block	101.07	12.45	2607	4423

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
45	Rh	Rhodium	Greek <i>rhodóeis</i> , 'rose-coloured', from <i>rhódon</i> , 'rose'	9	5	d-block	102.91	12.41	2237	3968
46	Pd	Palladium	<i>Pallas</i> , an asteroid, considered a planet at the time	10	5	d-block	106.42	12.023	1 828.05	3200
47	Ag	Silver	English word · Symbol Ag is derived from Latin <i>argentum</i>	11	5	d-block	107.87	10.49	1 234.93	2430
48	Cd	Cadmium	New Latin <i>cadmia</i> , from King <i>Kadmos</i>	12	5	d-block	112.41	8.65	594.22	1040
49	In	Indium	Latin <i>indicum</i> , 'indigo', the blue colour found in its spectrum	13	5	p-block	114.82	7.31	429.75	2340
50	Sn	Tin	English word · Symbol Sn is derived from Latin <i>stannum</i>	14	5	p-block	118.71	7.265	505.08	2875

Element		Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name				(Da)	(g/cm ³)	(K)	(K)
51	Sb	Antimony	15	5	p-block	121.76	6.697	903.78	1863.0
52	Te	Tellurium	16	5	p-block	127.60	6.24	722.66	1261.0
53	I	Iodine	17	5	p-block	126.90	4.933	386.85	457.5

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
54	Xe	Xenon	Greek <i>xénon</i> , neuter form of <i>xénos</i> 'strange'	18	5	p-block	131.29	0.005 894	161.4	165.0
55	Cs	Caesium	Latin <i>caesius</i> , 'sky-blue'	1	6	s-block	132.91	1.93	301.59	94
56	Ba	Barium	Greek <i>barýs</i> , 'heavy'	2	6	s-block	137.33	3.51	1000	217
57	La	Lanthanum	Greek <i>lanthánein</i> , 'to lie hidden'	n/a	6	f-block	138.91	6.162	1193	373
58	Ce	Cerium	<i>Ceres</i> , a dwarf planet, considered a planet at the time	n/a	6	f-block	140.12	6.770	1068	371
59	Pr	Praseodymium	Greek <i>prásios dídymos</i> , 'green twin'	n/a	6	f-block	140.91	6.77	1208	379
60	Nd	Neodymium	Greek <i>néos dídymos</i> , 'new twin'	n/a	6	f-block	144.24	7.01	1297	334
61	Pm	Promethium	<i>Prometheus</i> , a figure in Greek mythology	n/a	6	f-block	[145]	7.26	1315	327

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
62	Sm	Samarium	Samarskite , a mineral named after V. Samarsky-Bykhovets , Russian mine official	n/a	6	f-block	150.36	7.52	1345	2069
63	Eu	Europium	Europe	n/a	6	f-block	151.96	5.244	1099	1806
64	Gd	Gadolinium	Gadolinite , a mineral named after Johan Gadolin , Finnish chemist, physicist and mineralogist	n/a	6	f-block	157.25	7.90	1585	3546
65	Tb	Terbium	Ytterby , Sweden, where it was found; see also yttrium , erbium , ytterbium	n/a	6	f-block	158.93	8.23	1629	3503
66	Dy	Dysprosium	Greek <i>dysprósitos</i> , 'hard to get'	n/a	6	f-block	162.50	8.540	1680	2840
67	Ho	Holmium	New Latin <i>Holmia</i> , 'Stockholm'	n/a	6	f-block	164.93	8.79	1734	2900

Element		Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name				(Da)	(g/cm ³)	(K)	(K)
68	Er	Erbium	n/a	6	f-block	167.26	9.066	1802	314
69	Tm	Thulium	n/a	6	f-block	168.93	9.32	1818	222
70	Yb	Ytterbium	n/a	6	f-block	173.05	6.90	1097	146
71	Lu	Lutetium	3	6	d-block	174.97	9.841	1925	367
72	Hf	Hafnium	4	6	d-block	178.49	13.31	2506	487
73	Ta	Tantalum	5	6	d-block	180.95	16.69	3290	572

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
74	W	Tungsten	Swedish <i>tungsten</i> , 'heavy stone' <ul style="list-style-type: none"> Symbol W is from <i>Wolfram</i>, originally from Middle High German <i>wolf-rahm</i> 'wolf's foam' describing the mineral wolframite^[5] 	6	6	d-block	183.84	19.25	3695	5828
75	Re	Rhenium	Latin <i>Rhenus</i> , 'the Rhine'	7	6	d-block	186.21	21.02	3459	5869
76	Os	Osmium	Greek <i>osmḗ</i> , 'smell'	8	6	d-block	190.23	22.59	3306	5273
77	Ir	Iridium	Iris , the Greek goddess of the rainbow	9	6	d-block	192.22	22.56	2719	4701
78	Pt	Platinum	Spanish <i>platina</i> , 'little silver', from <i>plata</i> 'silver'	10	6	d-block	195.08	21.45	2 041.4	4008
79	Au	Gold	English word, from the same root as 'yellow' <ul style="list-style-type: none"> Symbol Au is derived from Latin <i>aurum</i> 	11	6	d-block	196.97	19.3	1 337.33	3129

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
80	Hg	Mercury	<p>Mercury, Roman god of commerce, communication, and luck, known for his speed and mobility</p> <ul style="list-style-type: none"> Symbol Hg is derived from its Latin name <i>hydrargyrum</i>, from Greek <i>hydrárgyros</i>, 'water-silver' 	12	6	d-block	200.59	13.534	234.43	629.8
81	Tl	Thallium	<p>Greek <i>thallós</i>, 'green shoot or twig'</p>	13	6	p-block	204.38	11.85	577	174
82	Pb	Lead	<p>English word, from Proto-Celtic <i>*ϕloudom</i>, from a root meaning 'flow'</p> <ul style="list-style-type: none"> Symbol Pb is derived from Latin <i>plumbum</i> 	14	6	p-block	207.2	11.34	600.61	201

Element		Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name				(Da)	(g/cm ³)	(K)	(K)
83	Bi	Bismuth	15	6	p-block	208.98	9.78	544.7	1862
84	Po	Polonium	16	6	p-block	[209] ^[a]	9.196	527	1274
85	At	Astatine	17	6	p-block	[210]	(7)	575	610
86	Rn	Radon	18	6	p-block	[222]	0.009 73	202	211
87	Fr	Francium	1	7	s-block	[223]	(2.48)	281	838
88	Ra	Radium	2	7	s-block	[226]	5.5	973	2010
89	Ac	Actinium	n/a	7	f-block	[227]	10	1323	3471

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
90	Th	Thorium	Thor , the Scandinavian god of thunder	n/a	7	f-block	232.04	11.7	2115	5068
91	Pa	Protactinium	Proto- (from Greek <i>prôtos</i> , 'first, before') + actinium , since actinium is produced through the radioactive decay of protactinium	n/a	7	f-block	231.04	15.37	1841	4300
92	U	Uranium	Uranus , the seventh planet in the Solar System	n/a	7	f-block	238.03	19.1	1 405.3	4472
93	Np	Neptunium	Neptune , the eighth planet in the Solar System	n/a	7	f-block	[237]	20.45	917	4273
94	Pu	Plutonium	Pluto , a dwarf planet, considered a planet in the Solar System at the time	n/a	7	f-block	[244]	19.85	912.5	3500

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
95	Am	Americium	The Americas , where the element was first synthesised, by analogy with its homologue § europium	n/a	7	f-block	[243]	12	1449	2880
96	Cm	Curium	Pierre Curie and Marie Curie , French physicists and chemists	n/a	7	f-block	[247]	13.51	1613	3380
97	Bk	Berkelium	Berkeley , California, where the element was first synthesised	n/a	7	f-block	[247]	14.78	1259	2900
98	Cf	Californium	California , where the element was first synthesised in the LBNL laboratory	n/a	7	f-block	[251]	15.1	1173	(1743)
99	Es	Einsteinium	Albert Einstein , German physicist	n/a	7	f-block	[252]	8.84	1133	(1260)
100	Fm	Fermium	Enrico Fermi , Italian physicist	n/a	7	f-block	[257]	(9.7) ^[b]	(1125) ^[7] (1800) ^[8]	

Element		Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name				(Da)	(g/cm ³)	(K)	(K)
101	Md	Mendelevium				[258]	(10.3)	(1100)	
102	No	Nobelium				[259]	(9.9)	(1100)	
103	Lr	Lawrencium				[266]	(14.4)	(1900)	
104	Rf	Rutherfordium				[267]	(17)	(2400)	(580)
105	Db	Dubnium				[268]	(21.6)	–	
106	Sg	Seaborgium				[269]	(23–24)	–	

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
107	Bh	Bohrium	Niels Bohr , Danish physicist	7	7	d-block	[270]	(26–27)	–	
108	Hs	Hassium	New Latin <i>Hassia</i> , 'Hesse', a state in Germany	8	7	d-block	[269]	(27–29)	–	
109	Mt	Meitnerium	Lise Meitner , Austrian physicist	9	7	d-block	[278]	(27–28)	–	
110	Ds	Darmstadtium	Darmstadt , Germany, where the element was first synthesised in the GSI laboratories	10	7	d-block	[281]	(26–27)	–	
111	Rg	Roentgenium	Wilhelm Conrad Röntgen , German physicist	11	7	d-block	[282]	(22–24)	–	
112	Cn	Copernicium	Nicolaus Copernicus , Polish astronomer	12	7	d-block	[285]	(14.0)	(283)	(340)

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight <i>A</i> _r [°] (E) ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boilin point [[]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
113	Nh	Nihonium	Japanese Nihon , 'Japan', where the element was first synthesised in the Riken laboratories	13	7	p-block	[286]	(16)	(700)	(140)
114	Fl	Flerovium	Flerov Laboratory of Nuclear Reactions , part of JINR , where the element was synthesised; itself named after Georgy Flyorov , Russian physicist	14	7	p-block	[289]	(9.928)	(200) ^[b]	(38)
115	Mc	Moscovium	Moscow , Russia, where the element was first synthesised in the JINR laboratories	15	7	p-block	[290]	(13.5)	(700)	(140)

Element			Origin of name ^{[2][3]}	Group	Period	Block	Standard atomic weight $A_r^\circ(E)$ ^[a]	Density ^{[b][c]}	Melting point ^[d]	Boiling point ^[e]
Atomic number <i>Z</i>	Symbol	Name					(Da)	(g/cm ³)	(K)	(K)
116	Lv	Livermorium	Lawrence Livermore National Laboratory in Livermore, California	16	7	p-block	[293]	(12.9)	(700)	(110)
117	Ts	Tennesine	Tennessee, United States, where Oak Ridge National Laboratory is located	17	7	p-block	[294]	(7.1–7.3)	(700)	(88)
118	Og	Oganesson	Yuri Oganessian, Russian physicist	18	7	p-block	[294]	(6.6–7.4)	(325)	(45)

a. *Standard atomic weight*

- '1.0080': abridged value, uncertainty ignored here
- '[97]', [] notation: massnumber of most stable isotope

b. *Values in () brackets are predictions*

c. *Density (sources)*

d. *Melting point in kelvin (K) (sources)*

e. *Boiling point in kelvin (K) (sources)*

f. *Heat capacity (sources)*

g. *Electronegativity by Pauling (source)*

h. *Abundance of elements in Earth's crust*

- i. *Primordial (=Earth's origin), from decay, or synthetic*
- j. Phase at *Standard state* (25 °C [77 °F], 100 kPa)
- k. *Helium melting point: helium does not solidify at a pressure of 1 bar (0.99 atm). Helium can only solidify at pressures above 25 atmosphere.*
- l. *Arsenic: element sublimates at one atmosphere of pressure.*

See also

- [List of people whose names are used in chemical element names](#)
- [List of places used in the names of chemical elements](#)
- [List of chemical element name etymologies](#)
- [Roles of chemical elements](#)

References

1. *IUPAC, Compendium of Chemical Terminology, 2nd ed. (the "Gold Book") (1997). Online corrected version: (2006–) "chemical element (<https://goldbook.iupac.org/C01022.html>) "*. *doi:10.1351/goldbook.C01022 (<https://doi.org/10.1351%2Fgoldbook.C01022>)*
2. *"Periodic Table – Royal Society of Chemistry" (<http://www.rsc.org/periodic-table>)* . *www.rsc.org.*
3. *"Online Etymology Dictionary" (<http://etymonline.com>)* . *etymonline.com.*
4. *"beryl" (<http://www.merriam-webster.com/dictionary/beryl>)* . *Merriam-Webster. Archived (<https://web.archive.org/web/20131009130722/http://www.merriam-webster.com/dictionary/beryl>)* from the original on 9 October 2013. Retrieved 27 January 2014.
5. *van der Krogt, Peter. "Wolframium Wolfram Tungsten" (<https://web.archive.org/web/20100123002249/http://elements.vanderkrogt.net/element.php?sym=W>)* . *Elementymology & Elements Multidict. Archived from the original (<http://elements.vanderkrogt.net/element.php?sym=W>)* on 2010-01-23. Retrieved 2010-03-11.
6. *Originally assessed as 0.7 by Pauling but never revised after other elements' electronegativities were updated for precision. Predicted to be higher than that of caesium.*
7. *Konings, Rudy J.M.; Beneš, Ondrej. "The Thermodynamic Properties of the f-Elements and Their Compounds. I. The Lanthanide and Actinide Metals" (<https://aip.scitation.org/doi/10.1063/1.3474238>)* . *Journal of Physical and Chemical Reference Data. doi:10.1063/1.3474238 (<https://doi.org/10.1063%2F1.3474238>)* .
8. *"Fermium" (<https://www.rsc.org/periodic-table/element/100/fermium>)* . *RSC.*

External links

- [Atoms made thinkable \(http://www.thingsmadethinkable.com/item/atoms.php\)](http://www.thingsmadethinkable.com/item/atoms.php) , an interactive visualisation of the elements allowing physical and chemical properties to be compared
- [Top 50 Elements \(https://discover tutoring.co.uk/quiz/chemistry/top-50-elements-periodic-table/\)](https://discover tutoring.co.uk/quiz/chemistry/top-50-elements-periodic-table/) , a quiz on the chemical symbols of the top 50 elements in the periodic table

Retrieved from

["https://en.wikipedia.org/w/index.php?title=List_of_chemical_elements&oldid=1094259506"](https://en.wikipedia.org/w/index.php?title=List_of_chemical_elements&oldid=1094259506)

