

Name	Chemical symbol	Number	Atomic mass	Density at 20°C	Melting point °C	Boiling point °C	Year of discovery	Discoverer
Actinium	Ac	89	227.0278 g/mol	10.07 g/cm ³	1047 °C	3197 °C	1899	Debiere
Aluminium	Al	13	26.982 g/mol	2.70 g/cm ³	660.5 °C	2467 °C	1825	Oersted
Americium	Am	95	243.0614 g/mol	13.67 g/cm ³	994 °C	2607 °C	1944	Seaborg
Antimony	Sb	51	121.75 g/mol	6.69 g/cm ³	630.7 °C	1750 °C	prehistoric	unknown
Argon	Ar	18	39.948 g/mol	1.66 g/l	-189.4 °C	-185.9 °C	1894	Ramsay and Rayleigh
Arsenic	As	33	74.92159 g/mol	5.72 g/cm ³	613 °C	613 (sublimiert) °C	ca. 1250	Albertus Magnus
Astatine	At	85	209.9871 g/mol		302 °C	337 °C	1940	Corson and MacKenzie
Barium	Ba	56	137.327 g/mol	3.65 g/cm ³	725 °C	1640 °C	1808	Davy
Berkelium	Bk	97	247.0703 g/mol	13.25 g/cm ³	986 °C		1949	Seaborg
Beryllium	Be	4	9.012182 g/mol	1.85 g/cm ³	1278 °C	2970 °C	1797	Vauquelin
Bismuth	Bi	83	208.98037 g/mol	9.80 g/cm ³	271.4 °C	1560 °C	1540	Agricola
Bohrium	Bh	107	262.1229 g/mol				1976	Oganessian
Boron	B	5	10.811 g/mol	2.46 g/cm ³	2300 °C	2550 °C	1808	Davy and Gay-Lussac
Bromine	Br	35	79.904 g/mol	3.14 g/cm ³	-7.3 °C	58.8 °C	1826	Balard
Cadmium	Cd	48	112.411 g/mol	8.64 g/cm ³	321 °C	765 °C	1817	Stromeyer and Hermann
Caesium	Cs	55	132.90543 g/mol	1.90 g/cm ³	28.4 °C	690 °C	1860	Kirchhoff and Bunsen
Calcium	Ca	20	40.078 g/mol	1.54 g/cm ³	839 °C	1487 °C	1808	Davy
Californium	Cf	98	251.0796 g/mol	15.1 g/cm ³	900 °C		1950	Seaborg
Carbon	C	6	12.011 g/mol	3.51 g/cm ³	3550 °C	4827 °C	prehistoric	unknown

Cerium	Ce	58	140.115 g/mol	6.77 g/cm ³	798 °C	3257 °C	1803	von Hisinger and Berzelius
Chlorine	Cl	17	35.4527 g/mol	2.95 g/l	-101 °C	-34.6 °C	1774	Scheele
Chromium	Cr	24	51.9961 g/mol	7.14 g/cm ³	1857 °C	2482 °C	1797	Vauquelin
Cobalt	Co	27	58.9332 g/mol	8.89 g/cm ³	1495 °C	2870 °C	1735	Brandt
Copper	Cu	29	63.546 g/mol	8.92 g/cm ³	1083.5 °C	2595 °C	prehistoric	unknown
Curium	Cm	96	247.0703 g/mol	13.51 g/cm ³	1340 °C		1944	Seaborg
Darmstadtium	Ds	110	269 g/mol				1994	Society for Heavy Ion Research
Dubnium	Db	105	262.1138 g/mol				1967/70	Flerow oder Ghiorso
Dysprosium	Dy	66	162.5 g/mol	8.56 g/cm ³	1409 °C	2335 °C	1886	Lecoq de Boisbaudran
Einsteinium	Es	99	252.0829 g/mol		860 °C		1952	Seaborg
Erbium	Er	68	167.26 g/mol	9.05 g/cm ³	1522 °C	2510 °C	1842	Mosander
Europium	Eu	63	151.965 g/mol	5.25 g/cm ³	822 °C	1597 °C	1901	Demacay
Fermium	Fm	100	257.0951 g/mol				1952	Seaborg
Fluorine	F	9	18.9984032 g/mol	1.58 g/l	-219.6 °C	-188.1 °C	1886	Moissan
Francium	Fr	87	223.0197 g/mol		27 °C	677 °C	1939	Perey
Gadolinium	Gd	64	157.25 g/mol	7.89 g/cm ³	1311 °C	3233 °C	1880	de Marignac
Gallium	Ga	31	69.723 g/mol	5.91 g/cm ³	29.8 °C	2403 °C	1875	Lecoq de Boiskaudran
Germanium	Ge	32	72.61 g/mol	5.32 g/cm ³	937.4 °C	2830 °C	1886	Winkler
Gold	Au	79	196.96654 g/mol	19.32 g/cm ³	1064.4 °C	2940 °C	prehistoric	unknown
Hafnium	Hf	72	178.49 g/mol	13.31 g/cm ³	2150 °C	5400 °C	1923	Coster and von Hevesy

Hassium	Hs	108	265 g/mol				1984	Society for Heavy Ion Research
Helium	He	2	4.002602 g/mol	0.17 g/l	-272.2 °C	-268.9 °C	1895	Ramsay and Cleve
Holmium	Ho	67	164.93032 g/mol	8.78 g/cm ³	1470 °C	2720 °C	1878	Soret
Hydrogen	H	1	1.00794 g/mol	0.084 g/l	-259.1 °C	-252.9 °C	1766	Cavendish
Indium	In	49	114.82 g/mol	7.31 g/cm ³	156.2 °C	2080 °C	1863	Reich and Richter
Iodine	I	53	126.90447 g/mol	4.94 g/cm ³	113.5 °C	184.4 °C	1811	Courtois
Iridium	Ir	77	192.22 g/mol	22.65 g/cm ³	2410 °C	4130 °C	1803	Tenant and others
Iron	Fe	26	55.847 g/mol	7.87 g/cm ³	1535 °C	2750 °C	prehistoric	unknown
Krypton	Kr	36	83.8 g/mol	3.48 g/l	-156.6 °C	-152.3 °C	1898	Ramsay and Travers
Lanthanum	La	57	138.9055 g/mol	6.16 g/cm ³	920 °C	3454 °C	1839	Mosander
Lawrencium	Lr	103	260.1053 g/mol				1961	Ghiorso
Lead	Pb	82	207.2 g/mol	11.34 g/cm ³	327.5 °C	1740 °C	prehistoric	unknown
Lithium	Li	3	6.941 g/mol	0.53 g/cm ³	180.5 °C	1317 °C	1817	Arfvedson
Lutetium	Lu	71	174.967 g/mol	9.84 g/cm ³	1656 °C	3315 °C	1907	Urbain
Magnesium	Mg	12	24.305 g/mol	1.74 g/cm ³	648.8 °C	1107 °C	1755	Black
Manganese	Mn	25	54.93805 g/mol	7.44 g/cm ³	1244 °C	2097 °C	1774	Gahn
Meitnerium	Mt	109	266 g/mol				1982	Society for Heavy Ion Research
Mendelevium	Md	101	258.0986 g/mol				1955	Seaborg
Mercury	Hg	80	200.59 g/mol	13.55 g/cm ³	-38.9 °C	356.6 °C	prehistoric	unknown
Molybdenum	Mo	42	95.94 g/mol	10.28 g/cm ³	2617 °C	5560 °C	1778	Scheele

Neodym	Nd	60	144.24 g/mol	7.00 g/cm ³	1010 °C	3127 °C	1895	von Welsbach
Neon	Ne	10	20.1797 g/mol	0.84 g/l	-248.7 °C	-246.1 °C	1898	Ramsay and Travers
Neptunium	Np	93	237.0482 g/mol	20.48 g/cm ³	640 °C	3902 °C	1940	McMillan and Abelson
Nickel	Ni	28	58.69 g/mol	8.91 g/cm ³	1453 °C	2732 °C	1751	Cronstedt
Niobium	Nb	41	92.90638 g/mol	8.58 g/cm ³	2468 °C	4927 °C	1801	Hatchet
Nitrogen	N	7	14.00674 g/mol	1.17 g/l	-209.9 °C	-195.8 °C	1772	Rutherford
Nobelium	No	102	259.1009 g/mol				1958	Seaborg
Osmium	Os	76	190.2 g/mol	22.61 g/cm ³	3045 °C	5027 °C	1803	Tenant
Oxygen	O	8	15.9994 g/mol	1.33 g/l	-218.4 °C	-182.9 °C	1774	Priestley and Scheele
Palladium	Pd	46	106.42 g/mol	12.02 g/cm ³	1552 °C	3140 °C	1803	Wollaston
Phosphorus	P	15	30.973762 g/mol	1.82 g/cm ³	44 (P ₄) °C	280 (P ₄) °C	1669	Brandt
Platinum	Pt	78	195.08 g/mol	21.45 g/cm ³	1772 °C	3827 °C	1557	Scaliger
Plutonium	Pu	94	244.0642 g/mol	19.74 g/cm ³	641 °C	3327 °C	1940	Seaborg
Polonium	Po	84	208.9824 g/mol	9.20 g/cm ³	254 °C	962 °C	1898	Marie and Pierre Curie
Potassium	K	19	39.0983 g/mol	0.86 g/cm ³	63.7 °C	774 °C	1807	Davy
Praseodymium	Pr	59	140.90765 g/mol	6.48 g/cm ³	931 °C	3212 °C	1895	von Welsbach
Promethium	Pm	61	146.9151 g/mol	7.22 g/cm ³	1080 °C	2730 °C	1945	Marinsky and Glendenin
Protactinium	Pa	91	231.0359 g/mol	15.37 g/cm ³	1554 °C	4030 °C	1917	Soddy, Cranston and Hahn
Radium	Ra	88	226.0254 g/mol	5.50 g/cm ³	700 °C	1140 °C	1898	Marie and Pierre Curie
Radon	Rn	86	222.0176 g/mol	9.23 g/l	-71 °C	-61.8 °C	1900	Dorn

Rhenium	Re	75	186.207 g/mol	21.03 g/cm ³	3180 °C	5627 °C	1925	Noddack, Tacke and Berg
Rhodium	Rh	45	102.9055 g/mol	12.41 g/cm ³	1966 °C	3727 °C	1803	Wollaston
Roentgenium	Rg	111	272 g/mol				1994	Society for Heavy Ion Research
Rubidium	Rb	37	85.4678 g/mol	1.53 g/cm ³	39 °C	688 °C	1861	Bunsen and Kirchhoff
Ruthenium	Ru	44	101.07 g/mol	12.45 g/cm ³	2310 °C	3900 °C	1844	Claus
Rutherfordium	Rf	104	261.1087 g/mol				1964/69	Flerow oder Ghiorso
Samarium	Sm	62	150.36 g/mol	7.54 g/cm ³	1072 °C	1778 °C	1879	Lecoq de Boisbaudran
Scandium	Sc	21	44.95591 g/mol	2.99 g/cm ³	1539 °C	2832 °C	1879	Nilson
Seaborgium	Sg	106	263.1182 g/mol				1974	Oganessian
Selenium	Se	34	78.96 g/mol	4.82 g/cm ³	217 °C	685 °C	1817	Berzelius
Silver	Ag	47	107.8682 g/mol	10.49 g/cm ³	961.9 °C	2212 °C	prehistoric	unknown
Silicon	Si	14	28.0855 g/mol	2.33 g/cm ³	1410 °C	2355 °C	1824	Berzelius
Sodium	Na	11	22.989768 g/mol	0.97 g/cm ³	97.8 °C	892 °C	1807	Davy
Strontium	Sr	38	87.62 g/mol	2.63 g/cm ³	769 °C	1384 °C	1790	Crawford
Sulfur	S	16	32.066 g/mol	2.06 g/cm ³	113 °C	444.7 °C	prehistoric	unknown
Tantalum	Ta	73	180.9479 g/mol	16.68 g/cm ³	2996 °C	5425 °C	1802	Ekeberg
Technetium	Tc	43	98.9063 g/mol	11.49 g/cm ³	2172 °C	5030 °C	1937	Perrier and Segre
Tellurium	Te	52	127.6 g/mol	6.25 g/cm ³	449.6 °C	990 °C	1782	von Reichenstein
Terbium	Tb	65	158.92534 g/mol	8.25 g/cm ³	1360 °C	3041 °C	1843	Mosander
Thallium	Tl	81	204.3833 g/mol	11.85 g/cm ³	303.6 °C	1457 °C	1861	Crookes

Thorium	Th	90	232.0381 g/mol	11.72 g/cm ³	1750 °C	4787 °C	1829	Berzelius
Thulium	Tm	69	168.93421 g/mol	9.32 g/cm ³	1545 °C	1727 °C	1879	Cleve
Tin	Sn	50	118.71 g/mol	7.29 g/cm ³	232 °C	2270 °C	prehistoric	unknown
Titanium	Ti	22	47.88 g/mol	4.51 g/cm ³	1660 °C	3260 °C	1791	Gregor and Klaproth
Tungsten	W	74	183.85 g/mol	19.26 g/cm ³	3407 °C	5927 °C	1783	Gebruder de Elhuyar
Ununhexium	Uuh	116						
Ununoctium	Uuo	118						
Ununpentium	Uup	115						
Ununquadium	Uuq	114						
Ununseptium	Uus	117						
Ununtrium	Uut	113						
Uranium	U	92	238.0289 g/mol	18.97 g/cm ³	1132.4 °C	3818 °C	1789	Klaproth
Vanadium	V	23	50.9415 g/mol	6.09 g/cm ³	1890 °C	3380 °C	1801	del Rio
Xenon	Xe	54	131.29 g/mol	4.49 g/l	-111.9 °C	-107 °C	1898	Ramsay and Travers
Ytterbium	Yb	70	173.04 g/mol	6.97 g/cm ³	824 °C	1193 °C	1878	de Marignac
Yttrium	Y	39	88.90585 g/mol	4.47 g/cm ³	1523 °C	3337 °C	1794	Gadolin
Zinc	Zn	30	65.39 g/mol	7.14 g/cm ³	419.6 °C	907 °C	prehistoric	unknown
Zirconium	Zr	40	91.224 g/mol	6.51 g/cm ³	1852 °C	4377 °C	1789	Klaproth