



# WebElements: the periodic table on the world-wide web

<http://www.webelements.com/>

1 hydrogen <b>H</b> 1.0079	2 helium <b>He</b> 4.0026	3 lithium <b>Li</b> 6.941	4 beryllium <b>Be</b> 9.0122	5 boron <b>B</b> 10.811	6 carbon <b>C</b> 12.011	7 nitrogen <b>N</b> 14.007	8 oxygen <b>O</b> 15.999	9 fluorine <b>F</b> 18.998	10 neon <b>Ne</b> 20.180	11 sodium <b>Na</b> 22.990	12 magnesium <b>Mg</b> 24.305	13 aluminium <b>Al</b> 26.982	14 silicon <b>Si</b> 28.086	15 phosphorus <b>P</b> 30.974	16 sulfur <b>S</b> 32.065	17 chlorine <b>Cl</b> 35.453	18 argon <b>Ar</b> 39.948	
19 potassium <b>K</b> 39.098	20 calcium <b>Ca</b> 40.078	21 scandium <b>Sc</b> 44.956	22 titanium <b>Ti</b> 47.867	23 vanadium <b>V</b> 50.942	24 chromium <b>Cr</b> 51.996	25 manganese <b>Mn</b> 54.938	26 iron <b>Fe</b> 55.845	27 cobalt <b>Co</b> 58.933	28 nickel <b>Ni</b> 58.693	29 copper <b>Cu</b> 63.546	30 zinc <b>Zn</b> 65.39	31 gallium <b>Ga</b> 69.723	32 germanium <b>Ge</b> 72.61	33 arsenic <b>As</b> 74.922	34 selenium <b>Se</b> 78.96	35 bromine <b>Br</b> 79.904	36 krypton <b>Kr</b> 83.80	
37 rubidium <b>Rb</b> 85.468	38 strontium <b>Sr</b> 87.62	39 yttrium <b>Y</b> 88.906	40 zirconium <b>Zr</b> 91.224	41 niobium <b>Nb</b> 92.906	42 molybdenum <b>Mo</b> 95.94	43 technetium <b>Tc</b> [98]	44 ruthenium <b>Ru</b> 101.07	45 rhodium <b>Rh</b> 102.91	46 palladium <b>Pd</b> 106.42	47 silver <b>Ag</b> 107.87	48 cadmium <b>Cd</b> 112.41	49 indium <b>In</b> 114.82	50 tin <b>Sn</b> 118.71	51 antimony <b>Sb</b> 121.76	52 tellurium <b>Te</b> 127.60	53 iodine <b>I</b> 126.90	54 xenon <b>Xe</b> 131.29	
55 caesium <b>Cs</b> 132.91	56 barium <b>Ba</b> 137.33	57-70 * lanthanoids	71 lutetium <b>Lu</b> 174.97	72 hafnium <b>Hf</b> 178.49	73 tantalum <b>Ta</b> 180.95	74 tungsten <b>W</b> 183.84	75 rhenium <b>Re</b> 186.21	76 osmium <b>Os</b> 190.23	77 iridium <b>Ir</b> 192.22	78 platinum <b>Pt</b> 195.08	79 gold <b>Au</b> 196.97	80 mercury <b>Hg</b> 200.59	81 thallium <b>Tl</b> 204.38	82 lead <b>Pb</b> 207.2	83 bismuth <b>Bi</b> 208.98	84 polonium <b>Po</b> [209]	85 astatine <b>At</b> [210]	86 radon <b>Rn</b> [222]
87 francium <b>Fr</b> [223]	88 radium <b>Ra</b> [226]	89-102 ** actinoids	103 lawrencium <b>Lr</b> [262]	104 rutherfordium <b>Rf</b> [261]	105 dubnium <b>Db</b> [262]	106 seaborgium <b>Sg</b> [266]	107 bohrium <b>Bh</b> [264]	108 hassium <b>Hs</b> [269]	109 meitnerium <b>Mt</b> [268]	110 darmstadtium <b>Ds</b> [271]	111 ununium <b>Uuu</b> [272]	112 ununbium <b>Uub</b> [277]	114 ununquadium <b>Uuq</b> [289]					

\*lanthanoids

57 lanthanum <b>La</b> 138.91	58 cerium <b>Ce</b> 140.12	59 praseodymium <b>Pr</b> 140.91	60 neodymium <b>Nd</b> 144.24	61 promethium <b>Pm</b> [145]	62 samarium <b>Sm</b> 150.36	63 europium <b>Eu</b> 151.96	64 gadolinium <b>Gd</b> 157.25	65 terbium <b>Tb</b> 158.93	66 dysprosium <b>Dy</b> 162.50	67 holmium <b>Ho</b> 164.93	68 erbium <b>Er</b> 167.26	69 thulium <b>Tm</b> 168.93	70 ytterbium <b>Yb</b> 173.04
89 actinium <b>Ac</b> [227]	90 thorium <b>Th</b> 232.04	91 protactinium <b>Pa</b> 231.04	92 uranium <b>U</b> 238.03	93 neptunium <b>Np</b> [237]	94 plutonium <b>Pu</b> [244]	95 americium <b>Am</b> [243]	96 curium <b>Cm</b> [247]	97 berkelium <b>Bk</b> [247]	98 californium <b>Cf</b> [251]	99 einsteinium <b>Es</b> [252]	100 fermium <b>Fm</b> [257]	101 mendelevium <b>Md</b> [258]	102 nobelium <b>No</b> [259]

\*\*actinoids

**Symbols and names:** the symbols and names of the elements, and their spellings are those recommended by the International Union of Pure and Applied Chemistry (IUPAC - <http://www.iupac.org/>). Names have yet to be proposed for the most recently discovered elements 111–112 and 114 so those used here are IUPAC's temporary systematic names. In the USA and some other countries, the spellings **aluminium** and **caesium** are normal while in the UK and elsewhere the common spelling is **sulphur**.

**Group labels:** the numeric system (1–18) used here is the current IUPAC convention.

**Atomic weights (mean relative masses):** Apart from the heaviest elements, these are the IUPAC 2001 values and given to 5 significant figures. Elements for which the atomic weight is given within square brackets have no stable nuclides and are represented by the element's longest lived isotope.

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