

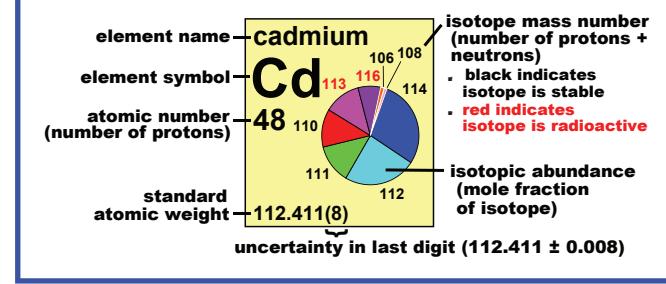
IUPAC Periodic Table of the Isotopes

1 hydrogen H 1 [1.007 84, 1.008 11]	2 lithium Li 3 [6.938, 6.997]	2 beryllium Be 4 9.012 182(3)
sodium Na 11 22.989 769 28(2)	magnesium Mg 12 [24.304, 24.307]	
potassium K 19 39.0983(1)	calcium Ca 20 40.078(4)	scandium Sc 21 44.955 912(6)
rubidium Rb 37 85.4678(3)	strontium Sr 38 87.62(1)	titanium Ti 22 47.867(1)
caesium (cesium) Cs 55 132.905 4519(2)	yttrium Y 39 88.905 85(2)	vanadium V 23 50.9415(1)
francium Fr 87 ○	zirconium Zr 40 91.224(2)	titanium Ti 22 47.867(1)
rutherfordium Rf 89 - 103 actinoids	niobium Nb 41 92.906 38(2)	vanadium V 23 50.9415(1)
dubnium Db 105 ○	molybdenum Mo 42 95.96(2)	chromium Cr 24 51.9961(6)
seaborgium Sg 106 ○	technetium Tc 43 ○	manganese Mn 25 54.938 045(5)
bohrium Bh 107 ○	ruthenium Ru 44 101.07(2)	iron Fe 26 55.845(2)
hassium Hs 108 ○	rhodium Rh 45 102.905 50(2)	cobalt Co 27 58.933 195(5)
meitnerium Mt 109 ○	palladium Pd 46 106.42(1)	nickel Ni 28 58.6934(4)
darmstadtium Ds 110 ○	silver Ag 47 107.8682(2)	copper Cu 29 63.546(3)
roentgenium Rg 111 ○	cadmium Cd 48 112.411(8)	zinc Zn 30 65.38(2)
copernicium Cn 112 ○	indium In 49 114.818(1)	gallium Ga 31 69.723(1)
ununtrium Uut 113 ○	tin Sn 50 118.710(7)	germanium Ge 32 72.630(8)
flerovium Fm 114 ○	antimony Sb 51 121.760(1)	arsenic As 33 74.921 60(2)
ununpentium Uup 115 ○	tellurium Te 52 127.60(3)	selenium Se 34 78.96(3)
livermorium Lv 116 ○	iodine I 53 126.904 47(3)	bromine Br 35 [79.901, 79.907]
ununseptium Uus 117 ○	xenon Xe 54 131.293(6)	krypton Kr 36 83.798(2)
ununoctium Uuo 118 ○	radon Rn 86 ○	

Element Background Color Key

Standard atomic weights are the best estimates by IUPAC of atomic weights that are found in normal materials, which are terrestrial materials that are reasonably possible sources for elements and their compounds in commerce, industry, or science. They are determined using all stable isotopes and selected radioactive isotopes (having relatively long half-lives and characteristic terrestrial isotopic compositions). Isotopes are considered stable (non-radioactive) if evidence for radioactive decay has not been detected experimentally.

- Element has two or more isotopes that are used to determine its standard atomic weight. The isotopic abundances and atomic weights vary in normal materials. These variations are well known, and the standard atomic weight is given as lower and upper bounds within square brackets, [].
- Element has two or more isotopes that are used to determine its standard atomic weight. The isotopic abundances and atomic weights vary in normal materials, but upper and lower bounds of the standard atomic weight have not been assigned by IUPAC or the variations may be too small to affect the standard atomic weight value significantly. Thus, the standard atomic weight is given as a single value with an uncertainty that includes both measurement uncertainty and uncertainty due to isotopic abundance variations.
- Element has only one isotope that is used to determine its standard atomic weight. Thus, the standard atomic weight is invariant and is given as a single value with an IUPAC evaluated uncertainty.
- Element has no standard atomic weight because all of its isotopes are radioactive and, in normal materials, no isotope occurs with a characteristic isotopic abundance from which a standard atomic weight can be determined.



boron B 5 [10.806, 10.821]	carbon C 6 [12.0096, 12.0116]	nitrogen N 7 [14.00643, 14.00728]	oxygen O 8 [15.99903, 15.99977]	fluorine F 9 18.998 4032(5)
aluminium (aluminum) Al 13 26.981 5386(8)	silicon Si 14 30.973 762(2)	phosphorus P 15 32.059, 32.076	sulfur S 16 [32.059, 32.076]	chlorine Cl 17 [35.446, 35.457]
neon Ne 10 20.1797(6)	chlorine Cl 17 [35.446, 35.457]	arsenic As 33 39.948(1)	selenium Se 34 [79.901, 79.907]	bromine Br 35 83.798(2)
argon Ar 18 39.948(1)	iodine I 53 126.904 47(3)	xenon Xe 54 131.293(6)		

lanthanum La 57 138.905 47(7)	cerium Ce 58 140.116(1)	praseodymium Pr 59 140.907 65(2)	neodymium Nd 60 144.242(3)	promethium Pm 61 ○	samarium Sm 62 150.36(2)	europeum Eu 63 151.964(1)	gadolinium Gd 64 157.25(3)	terbium Tb 65 158.925 35(2)	dysprosium Dy 66 162.500(1)	holmium Ho 67 164.930 32(2)	erbium Er 68 167.259(3)	thulium Tm 69 168.934 21(2)	ytterbium Yb 70 173.054(5)	lutetium Lu 71 174.9668(1)
actinium Ac 89 ○	thorium Th 90 232.038 06(2)	protactinium Pa 91 231.035 88(2)	uranium U 92 238.028 91(3)	neptunium Np 93 ○	plutonium Pu 94 ○	americium Am 95 ○	curium Cm 96 ○	berkelium Bk 97 ○	californium Cf 98 ○	einsteinium Es 99 ○	fermium Fm 100 ○	mendelevium Md 101 ○	nobelium No 102 ○	lawrencium Lr 103 ○