

Know these Elements



There are 16 elements that you need know to make the most of your chemistry experience and although you will use other elements these are the most important. Learn these **symbols**, **atomic numbers** and **atomic masses** so that you can use them without referring to the periodic table. This will make you quicker and save you valuable time.

Atomic #	Symbol	Element	Atomic #	Symbol	Element
1	H	hydrogen	15	P	phosphorus
6	C	carbon	16	S	sulfur
7	N	nitrogen	17	Cl	chlorine
8	O	oxygen	19	K	potassium
9	F	fluorine	20	Ca	calcium
11	Na	sodium	24	Cr	chromium
12	Mg	magnesium	26	Fe	iron
13	Al	aluminum	29	Cu	copper

ATOMIC MASSES (atomic mass unit)

H – 1.008 u	C – 12.01 u	N – 14.01 u	O – 16.00 u
F – 19.00 u	Na – 22.99 u	Mg – 24.31	Al – 26.98 u
P – 30.97 u	S – 32.07 u	Cl – 35.45 u	K – 39.10 u
Ca – 40.08 u	Cr – 52.00 u	Fe – 55.85 u	Cu – 63.55 u

MOLAR MASSES (gram/mole)

H – 1.008 g	C – 12.01 g	N – 14.01 g	O – 16.00 g
F – 19.00 g	Na – 22.99 g	Mg – 24.31 g	Al – 26.98 g
P – 30.97 g	S – 32.07 g	Cl – 35.45 g	K – 39.10 g
Ca – 40.08 g	Cr – 52.00 g	Fe – 55.85 g	Cu – 63.55 g

Periodic Table of the Elements

1 IA																		18 VIIIA																	
1 H Hydrogen 1.008																	2 He Helium 4.002602																		
3 Li Lithium 6.94	4 Be Beryllium 9.012182																	5 B Boron 10.81	6 C Carbon 12.01	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.99840323	10 Ne Neon 20.1797												
11 Na Sodium 22.98976928	12 Mg Magnesium 24.305																	13 Al Aluminum 26.9815385	14 Si Silicon 28.086	15 P Phosphorus 30.973761998	16 S Sulfur 32.06	17 Cl Chlorine 35.45	18 Ar Argon 39.948												
19 K Potassium 39.0983	20 Ca Calcium 40.078	21 Sc Scandium 44.955909	22 Ti Titanium 47.88	23 V Vanadium 50.9415	24 Cr Chromium 51.9961	25 Mn Manganese 54.938044	26 Fe Iron 55.845	27 Co Cobalt 58.933194	28 Ni Nickel 58.6934	29 Cu Copper 63.546	30 Zn Zinc 65.38	31 Ga Gallium 69.723	32 Ge Germanium 72.630	33 As Arsenic 74.921595	34 Se Selenium 78.971	35 Br Bromine 79.904	36 Kr Krypton 83.796																		
37 Rb Rubidium 85.4678	38 Sr Strontium 87.62	39 Y Yttrium 88.90584	40 Zr Zirconium 91.224	41 Nb Niobium 92.90637	42 Mo Molybdenum 95.94	43 Tc Technetium (98)	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.90550	46 Pd Palladium 106.42	47 Ag Silver 107.8682	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.60	53 I Iodine 126.90447	54 Xe Xenon 131.29																		
55 Cs Cesium 132.90545196	56 Ba Barium 137.327	57 - 71 Lanthanoids										72 Hf Hafnium 178.49	73 Ta Tantalum 180.94788	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.222	78 Pt Platinum 195.084	79 Au Gold 196.966569	80 Hg Mercury 200.592	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98040	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)									
87 Fr Francium (223)	88 Ra Radium (226)	89 - 103 Actinoids										104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (266)	107 Bh Bohrium (264)	108 Hs Hassium (265)	109 Mt Meitnerium (268)	110 Ds Darmstadtium (281)	111 Rg Roentgenium (282)	112 Cn Copernicium (285)	113 Nh Nihonium (286)	114 Fl Flerovium (289)	115 Mc Moscovium (289)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)									

57 La Lanthanum 138.90547	58 Ce Cerium 140.12	59 Pr Praseodymium 140.90766	60 Nd Neodymium 144.242	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.92535	66 Dy Dysprosium 162.50	67 Ho Holmium 164.93033	68 Er Erbium 167.259	69 Tm Thulium 168.93402	70 Yb Ytterbium 173.054	71 Lu Lutetium 174.967
88 Ac Actinium (227)	90 Th Thorium 232.0377	91 Pa Protactinium 231.03688	92 U Uranium 238.02891	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)	103 Lr Lawrencium (260)