

Periodic Table of the Elements

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| 1 IA | | | | | | | | | | | | | | | | | 18 VIII | | | | |
| 1.0079 1 +/-1 H Hydrogen | 2 IIA | | | | | | | | | | | | 13 IIIA | 14 IVA | 15 VA | 16 VIA | 17 VIIA | 4.0026 2 He Helium | | | |
| 6.941 3 1 Li Lithium | 9.0122 4 2 Be Beryllium | Atomic Weight (amu) 12.0107 6 2 C Carbon Element Name | | Atomic Number 6 Oxidation States C Atomic Symbol | | | | | | | | | | | | 10.811 5 3 B Boron | 12.0107 6 2,+/-4 C Carbon | 14.0067 7 2,+/-3,4,5 N Nitrogen | 15.9994 8 -2 O Oxygen | 18.9984 9 -1 F Fluorine | 20.1797 10 - Ne Neon |
| 22.9897 11 1 Na Sodium | 24.305 12 2 Mg Magnesium | 3 IIIB | 4 IVB | 5 VB | 6 VIB | 7 VIIB | 8 ----- | 9 VIII | 10 ----- | 11 IB | 12 IB | 26.9815 13 3 Al Aluminum | 28.0855 14 4 Si Silicon | 30.9738 15 +/-3,4,5 P Phosphorus | 32.066 16 +/-2,4,6 S Sulfur | 35.453 17 +/-1,3,5,7 Cl Chlorine | 39.948 18 - Ar Argon | | | | |
| 39.0983 19 1 K Potassium | 40.078 20 2 Ca Calcium | 44.9559 21 3 Sc Scandium | 47.867 22 2,4 Ti Titanium | 50.9415 23 2,3,4,5 V Vanadium | 51.9961 24 2,3,6 Cr Chromium | 54.938 25 2,3,4,6,7 Mn Manganese | 55.845 26 2,3 Fe Iron | 58.9332 27 2,3 Co Cobalt | 58.6934 28 2,3 Ni Nickel | 63.546 29 1,2 Cu Copper | 65.39 30 2 Zn Zinc | 69.723 31 3 Ga Gallium | 72.64 32 4 Ge Germanium | 74.9216 33 +/-3,5 As Arsenic | 78.96 34 -2,4,5 Se Selenium | 79.904 35 +/-1,5 Br Bromine | 83.8 36 - Kr Krypton | | | | |
| 85.4678 37 1 Rb Rubidium | 87.62 38 2 Sr Strontium | 88.9059 39 3 Y Yttrium | 91.224 40 4 Zr Zirconium | 92.9064 41 3,5 Nb Niobium | 95.94 42 2,3,4,5,6 Mo Molybdenum | (98) 43 7 Tc Technetium | 101.07 44 2,3,4,6,8 Ru Ruthenium | 102.9055 45 2,3,4 Rh Rhodium | 106.42 46 2,4 Pd Palladium | 107.8682 47 1 Ag Silver | 112.411 48 2 Cd Cadmium | 114.818 49 3 In Indium | 118.71 50 2,4 Sn Tin | 121.76 51 +/-3,5 Sb Antimony | 127.6 52 -2,4,5 Te Tellurium | 126.9045 53 +/-1,5,7 I Iodine | 131.293 54 - Xe Xenon | | | | |
| 132.9055 55 1 Cs Cesium | 137.327 56 2 Ba Barium | 138.9055 57 3 La Lanthanum | 178.49 72 4 Hf Hafnium | 180.9479 73 5 Ta Tantalum | 183.84 74 2,3,4,5,6 W Tungsten | 186.207 75 -1,-2,4,6,7 Re Rhenium | 190.23 76 2,3,4,6,8 Os Osmium | 192.217 77 2,3,4,5 Ir Iridium | 195.078 78 2,4 Pt Platinum | 196.9665 79 1,3 Au Gold | 200.59 80 1,2 Hg Mercury | 204.3833 81 1,3 Tl Thallium | 207.2 82 2,4 Pb Lead | 208.9804 83 3,5 Bi Bismuth | (209) 84 2,4 Po Polonium | (210) 85 +/-1,3,5,7 At Astatine | (222) 86 - Rn Radon | | | | |
| (223) 87 1 Fr Francium | (226) 88 2 Ra Radium | (227) 89 3 Ac Actinium | (261) 104 4 Rf Rutherfordium | (262) 105 2,3,4 Db Dubnium | (266) 106 -1,-6 Sg Seaborgium | (264) 107 - Bh Bohrium | (277) 108 - Hs Hassium | (280) 109 - Mt Meitnerium | (282) 110 - Ds Darmstadtium | (284) 111 - Rg Roentgenium | (288) 112 - Cn Copernicium | (293) 113 - Uut Ununtrium | (298) 114 - Uuq Ununquadium | (299) 115 - Uup Ununpentium | (302) 116 - Uuh Ununhexium | (310) 117 - Uus Ununseptium | (314) 118 - Uuo Ununoctium | | | | |

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| *Lanthanide Series | 140.116 58 4 Ce Cerium | 140.9077 59 5 Pr Praseodymium | 144.24 60 3 Nd Neodymium | (145) 61 3 Pm Promethium | 150.36 62 2,3 Sm Samarium | 151.964 63 2,3 Eu Europium | 157.25 64 3 Gd Gadolinium | 158.9253 65 3,4 Tb Terbium | 162.5 66 3 Dy Dysprosium | 164.9303 67 3 Ho Holmium | 167.259 68 3 Er Erbium | 168.9342 69 2,3 Tm Thulium | 173.04 70 2,3 Yb Ytterbium | 174.967 71 3 Lu Lutetium |
| **Actinide Series | 232.0381 90 4 Th Thorium | 231.0359 91 4,5 Pa Protactinium | 238.0289 92 3,4,5,6 U Uranium | (237) 93 3,4,5,6 Np Neptunium | (244) 94 3,4,5,6 Pu Plutonium | (243) 95 3,4,5,6 Am Americium | (247) 96 3 Cm Curium | (247) 97 3,4 Bk Berkelium | (251) 98 3 Cf Californium | (252) 99 3 Es Einsteinium | (257) 100 3 Fm Fermium | (258) 101 2,3 Md Mendelevium | (259) 102 2,3 No Nobelium | (262) 103 3 Lr Lawrencium |

Phase Codes for Room Temperature (294 K): Black: Solid Red: Gas Blue: Liquid Green: Synthetically Prepared Solids

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