Periodic Table of the Elements

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1 IA	2 IIA	3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8	9 VIIIB	10	11 IB	12 IB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIII
1.0079 0.79 0.012 0.09 2.2 13.5984 **1 +/-1 H** Hydrogen	9.0122 1.4 0.35 1.85 1.57 9.3227 **4 2 Be** Beryllium											10.811 1.17 0.23 2.34 2.04 8.298 **5 3 B** Boron	12.0107 0.91 --- 2.26 2.55 11.2603 **6 2,+/-4 C** Carbon	14.0067 0.75 0.13 1.25 3.04 14.5341 **7 2,+/-3,4,5 N** Nitrogen	15.9994 0.65 1.4 1.43 3.44 13.6181 **8 -2 O** Oxygen	18.9984 0.57 1.33 1.7 4 17.4228 **9 -1 F** Fluorine	20.1797 0.51 --- 0.9002 --- 21.5645 **10 --- Ne** Neon
22.9897 2.23 1.02 0.97 0.93 5.1391 **11 1 Na** Sodium	24.305 1.72 0.72 1.74 1.31 7.6462 **12 2 Mg** Magnesium											26.9815 1.82 0.535 2.7 1.61 5.9858 **13 3 Al** Aluminum	28.0855 1.46 0.4 2.33 1.9 8.1517 **14 4 Si** Silicon	30.9738 1.23 0.38 1.82 2.19 10.4867 **15 +/-3,4,5 P** Phosphorus	32.065 1.09 0.37 2.07 2.58 10.36 **16 +/-2,4,6 S** Sulfur	35.453 0.97 1.81 3.21 3.16 12.9676 **17 +/-1,3,5,7 Cl** Chlorine	39.948 0.88 --- 1.784 --- 15.7596 **18 --- Ar** Argon
39.0983 2.77 1.38 0.86 0.82 4.3407 **19 1 K** Potassium	40.078 2.23 0.99 1.55 1 6.1132 **20 2 Ca** Calcium	44.9559 2.09 0.745 3 2.99 1.36 6.5615 **21 3 Sc** Scandium	47.867 2 0.605 2,4 4.54 1.54 6.8281 **22 2,4 Ti** Titanium	50.9415 1.92 0.59 2,3,4,5 6.11 1.63 6.7462 **23 2,3,4,5 V** Vanadium	51.9961 1.85 0.52 2,3,6 7.19 1.66 6.7665 **24 2,3,6 Cr** Chromium	54.938 1.79 0.46 2,3,4,6,7 7.43 1.55 7.434 **25 2,3,4,6,7 Mn** Manganese	55.845 1.72 0.645 2,3 7.87 1.83 7.9024 **26 2,3 Fe** Iron	58.9332 1.67 0.745 2,3 8.9 1.88 7.881 **27 2,3 Co** Cobalt	58.6934 1.62 0.69 2,3 8.9 1.91 7.6398 **28 2,3 Ni** Nickel	63.546 1.57 0.73 1,2 8.96 1.9 7.7264 **29 1,2 Cu** Copper	65.39 1.53 0.74 2 9.3942 1.65 9.3942 **30 2 Zn** Zinc	69.723 1.81 0.62 3 5.91 1.81 5.9993 **31 3 Ga** Gallium	72.64 1.52 0.53 4 5.32 2.01 7.8994 **32 4 Ge** Germanium	74.9216 1.33 0.58 +/-3,5 5.72 2.18 9.7886 **33 +/-3,5 As** Arsenic	78.96 1.22 0.5 -2,4,5 4.79 2.55 9.7524 **34 -2,4,5 Se** Selenium	79.904 1.12 1.96 +/-1,5 3.12 2.96 11.8138 **35 +/-1,5 Br** Bromine	83.8 1.03 --- 3.749 --- 13.9996 **36 --- Kr** Krypton
85.4678 2.98 1.52 1 1.63 0.82 4.1771 **37 1 Rb** Rubidium	87.62 2.45 1.12 2 2.54 0.95 5.6949 **38 2 Sr** Strontium	88.9059 2.27 0.9 3 4.472 1.22 6.2173 **39 3 Y** Yttrium	91.224 2 0.72 4 6.51 1.33 6.6339 **40 4 Zr** Zirconium	92.9064 2.08 0.69 3,5 8.57 1.6 6.7589 **41 3,5 Nb** Niobium	95.94 2.01 0.65 2,3,4,5,6 10.22 2.16 7.0924 **42 2,3,4,5,6 Mo** Molybdenum	(98) 1.95 0.56 7 11.5 1.9 7.28 **43 7 Tc** Technetium	101.07 1.89 0.68 2,3,4,6,8 12.37 2.2 7.3605 **44 2,3,4,6,8 Ru** Ruthenium	102.9055 1.83 0.68 2,3,4 12.41 2.28 7.4589 **45 2,3,4 Rh** Rhodium	106.42 1.79 0.86 2,4 12.02 2.2 8.3369 **46 2,4 Pd** Palladium	107.8682 1.75 1.26 1 10.5 1.93 7.5762 **47 1 Ag** Silver	112.411 1.71 0.97 2 8.65 1.69 8.9938 **48 2 Cd** Cadmium	114.818 2 0.8 3 7.31 1.78 5.7864 **49 3 In** Indium	118.71 1.72 0.69 2,4 7.31 1.96 7.3439 **50 2,4 Sn** Tin	121.76 1.53 0.76 +/-3,5 6.68 2.05 8.6084 **51 +/-3,5 Sb** Antimony	127.6 1.42 0.97 -2,4,5 6.24 2.1 9.0096 **52 -2,4,5 Te** Tellurium	126.9045 1.32 2.2 +/-1,5,7 4.93 2.66 10.4513 **53 +/-1,5,7 I** Iodine	131.293 1.24 --- 5.89 2.6 12.1298 **54 --- Xe** Xenon
132.9055 3.34 1.67 1 1.87 0.79 3.8939 **55 1 Cs** Cesium	137.327 2.78 1.35 2 3.59 0.89 5.2117 **56 2 Ba** Barium	138.9055 2.74 1.061 3 6.15 1.1 5.5769 **57 3 La** Lanthanum	178.49 2.16 0.71 4 13.31 1.3 6.8251 **72 4 Hf** Hafnium	180.9479 2.09 0.64 5 16.65 1.5 7.5496 **73 5 Ta** Tantalum	183.84 2.02 0.62 2,3,4,5,6 19.35 2.36 7.864 **74 2,3,4,5,6 W** Tungsten	186.207 1.97 0.56 -1+2,4,6,7 21.04 1.9 7.8335 **75 -1+2,4,6,7 Re** Rhenium	190.23 1.92 0.63 2,3,4,6,8 22.6 2.2 8.4382 **76 2,3,4,6,8 Os** Osmium	192.217 1.87 0.625 2,3,4,5 22.4 2.2 8.967 **77 2,3,4,5 Ir** Iridium	195.078 1.83 0.625 2,4 21.45 2.28 8.9587 **78 2,4 Pt** Platinum	196.9665 1.79 0.85 1,3 19.32 2.54 9.2255 **79 1,3 Au** Gold	200.59 1.76 1.02 1,2 13.55 2 10.4375 **80 1,2 Hg** Mercury	204.3833 2.08 1.5 1,3 11.85 1.62 6.1082 **81 1,3 Tl** Thallium	207.2 1.81 1.19 2,4 11.35 2.33 7.4167 **82 2,4 Pb** Lead	208.9804 1.63 1.03 3,5 9.75 2.02 7.2856 **83 3,5 Bi** Bismuth	(209) 1.53 2.3 2,4 9.3 2 8.417 **84 2,4 Po** Polonium	(210) 1.43 --- +/-1,3,5,7 5.727 2.2 9.3 **85 +/-1,3,5,7 At** Astatine	(222) 1.34 --- 9.73 --- 10.7485 **86 --- Rn** Radon
(223) 2.7 1.8 1 1.87 0.7 4.0727 **87 1 Fr** Francium	(226) 2.33 1.43 2 5.5 0.89 5.2784 **88 2 Ra** Radium	(227) 1.88 1.119 3 10.07 1.1 5.17 **89 3 Ac** Actinium	(261) --- --- 4 --- --- --- **104 4 Rf** Rutherfordium	(262) --- --- 2,3,4 --- --- --- **105 2,3,4 Db** Dubnium	(266) --- --- -1,+6 --- --- --- **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

***Lanthanide Series**	140.116 2.7 1.034 4 6.77 1.12 5.5387 **58 4 Ce** Cerium	140.9077 2.67 1.013 5 6.77 1.13 5.473 **59 5 Pr** Praseodymium	144.24 2.64 0.995 3 7.01 1.14 5.525 **60 3 Nd** Neodymium	(145) 2.62 0.979 3 7.3 1.13 5.582 **61 3 Pm** Promethium	150.36 2.59 0.964 2,3 7.52 1.17 5.6437 **62 2,3 Sm** Samarium	151.964 2.56 0.947 2,3 5.24 1.2 5.6704 **63 2,3 Eu** Europium	157.25 2.54 0.938 3 7.9 1.2 6.1501 **64 3 Gd** Gadolinium	158.9253 2.51 0.923 3,4 8.23 1.2 5.8638 **65 3,4 Tb** Terbium	162.5 2.49 0.912 3 8.55 1.22 5.9389 **66 3 Dy** Dysprosium	164.9303 2.47 0.901 3 8.8 1.23 6.0215 **67 3 Ho** Holmium	167.259 2.45 0.881 3 9.07 1.24 6.1077 **68 3 Er** Erbium	168.9342 2.42 0.869 2,3 9.32 1.25 6.1843 **69 2,3 Tm** Thulium	173.04 2.4 0.858 2,3 6.9 1.1 6.2542 **70 2,3 Yb** Ytterbium	174.967 2.25 0.848 3 9.84 1.27 5.4259 **71 3 Lu** Lutetium
***Actinide Series**	232.0381 1.8 0.972 4 11.72 1.3 6.3067 **90 4 Th** Thorium	231.0359 1.61 0.78 4,5 15.4 1.5 5.89 **91 4,5 Pa** Protactinium	238.0289 1.38 0.52 3,4,5,6 18.95 1.38 6.1941 **92 3,4,5,6 U** Uranium	(237) 1.3 0.75 3,4,5,6 20.2 1.36 6.2657 **93 3,4,5,6 Np** Neptunium	(244) 1.51 0.887 3,4,5,6 19.84 1.28 6.0262 **94 3,4,5,6 Pu** Plutonium	(243) 1.84 0.982 3,4,5,6 13.67 1.3 5.9738 **95 3,4,5,6 Am** Americium	(247) 1.74 0.97 3 13.5 1.3 5.9915 **96 3 Cm** Curium	(247) 1.7 0.949 3,4 14.78 1.3 6.1979 **97 3,4 Bk** Berkelium	(251) 1.86 0.934 3 15.1 1.3 6.2817 **98 3 Cf** Californium	(252) 1.86 0.925 3 8.84 1.3 6.42 **99 3 Es** Einsteinium	(257) --- --- 3 --- 1.3 6.5 **100 3 Fm** Fermium	(258) --- --- 2,3 --- 1.3 6.58 **101 2,3 Md** Mendelevium	(259) --- 1.1 2,3 --- 1.3 6.65 **102 2,3 No** Nobelium	(262) --- --- 3 --- 1.3 4.9 **103 3 Lr** Lawrencium

Atomic Weight (amu) | Atomic Number
Atomic Radius (Å)
Ionic Radius (Å) | Oxidation States
Density (g/mL)
Electronegativity
First Ionization Potential (eV) | Atomic Symbol
Element Name

- Densities less than 1 are given in g/L
- Ionic radii are for the most common ion

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

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