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PERIODIC TABLE OF THE ELEMENTS

18

Non-metals Alkali Metals Alkaline Earth Metals Transition Metals Lanthanides Actinides Metals Meta-loids Halo-gens Nobel Gases No data from chemistry experiments																								13	14	15	16	17	18
1 1.0080 H Hydrogen 1	2 4.0026 He Helium 2																												
3 6.94 Li Lithium 2-1	4 9.0122 Be Beryllium 2-2											5 10.81 B Boron 2-3	6 12.011 C Carbon 2-4	7 14.007 N Nitrogen 2-5	8 15.999 O Oxygen 2-6	9 18.998 F Fluorine 2-7	10 20.180 Ne Neon 2-8												
11 22.990 Na Sodium 2-8-1	12 24.305 Mg Magnesium 2-8-2											13 26.982 Al Aluminium 2-8-3	14 28.085 Si Silicon 2-8-4	15 30.974 P Phosphorus 2-8-5	16 32.06 S Sulfur 2-8-6	17 35.45 Cl Chlorine 2-8-7	18 39.95 Ar Argon 2-8-8												
19 39.098 K Potassium 2-8-8-1	20 40.078 Ca Calcium 2-8-8-2	21 44.956 Sc Scandium 2-8-9-2	22 47.867 Ti Titanium 2-8-10-2	23 50.942 V Vanadium 2-8-11-2	24 51.996 Cr Chromium 2-8-13-1	25 54.938 Mn Manganese 2-8-13-2	26 55.845 Fe Iron 2-8-14-2	27 58.933 Co Cobalt 2-8-15-2	28 58.693 Ni Nickel 2-8-16-2	29 63.546 Cu Copper 2-8-18-1	30 65.38 Zn Zinc 2-8-18-2	31 69.723 Ga Gallium 2-8-18-3	32 72.630 Ge Germanium 2-8-18-4	33 74.922 As Arsenic 2-8-18-5	34 78.971 Se Selenium 2-8-18-6	35 79.904 Br Bromine 2-8-18-7	36 83.798 Kr Krypton 2-8-18-8												
37 85.468 Rb Rubidium 2-8-18-8-1	38 87.62 Sr Strontium 2-8-18-8-2	39 88.906 Y Yttrium 2-8-18-9-2	40 91.224 Zr Zirconium 2-8-18-10-2	41 92.906 Nb Niobium 2-8-18-12-1	42 95.95 Mo Molybdenum 2-8-18-13-1	43 (97) Tc Technetium 2-8-18-13-2	44 101.07 Ru Ruthenium 2-8-18-15-1	45 102.91 Rh Rhodium 2-8-18-16-1	46 106.42 Pd Palladium 2-8-18-18	47 107.87 Ag Silver 2-8-18-18-1	48 112.41 Cd Cadmium 2-8-18-18-2	49 114.82 In Indium 2-8-18-18-3	50 118.71 Sn Tin 2-8-18-18-4	51 121.76 Sb Antimony 2-8-18-18-5	52 127.60 Te Tellurium 2-8-18-18-6	53 126.90 I Iodine 2-8-18-18-7	54 131.29 Xe Xenon 2-8-18-18-8												
55 132.91 Cs Caesium 2-8-18-18-8-1	56 137.33 Ba Barium 2-8-18-18-9-2	57-71 * La-Lu	72 178.49 Hf Hafnium 2-8-18-32-10-2	73 180.95 Ta Tantalum 2-8-18-32-11-2	74 183.84 W Tungsten 2-8-18-32-12-2	75 186.21 Re Rhenium 2-8-18-32-13-2	76 190.23 Os Osmium 2-8-18-32-14-2	77 192.22 Ir Iridium 2-8-18-32-15-2	78 195.08 Pt Platinum 2-8-18-32-17-1	79 196.97 Au Gold 2-8-18-32-18-1	80 200.59 Hg Mercury 2-8-18-32-18-2	81 204.38 Tl Thallium 2-8-18-32-18-3	82 207.2 Pb Lead 2-8-18-32-18-4	83 208.98 Bi Bismuth 2-8-18-32-18-5	84 (209) Po Polonium 2-8-18-32-18-6	85 (210) At Astatine 2-8-18-32-18-7	86 (222) Rn Radon 2-8-18-32-18-8												
87 (223) Fr Francium 2-8-18-32-18-8-1	88 (226) Ra Radium 2-8-18-32-18-8-2	89-103 ** Ac-Lr	104 (267) Rf Rutherfordium 2-8-18-32-32-10-2	105 (268) Db Dubnium 2-8-18-32-32-11-2	106 (269) Sg Seaborgium 2-8-18-32-32-12-2	107 (270) Bh Bohrium 2-8-18-32-32-13-2	108 (269) Hs Hassium 2-8-18-32-32-14-2	109 (277) Mt Meitnerium 2-8-18-32-32-15-2	110 (281) Ds Darmstadtium 2-8-18-32-32-17-1	111 (282) Rg Roentgenium 2-8-18-32-32-18-1	112 (285) Cn Copernicium 2-8-18-32-32-18-2	113 (286) Nh Nihonium 2-8-18-32-32-18-3	114 (290) Fl Flerovium 2-8-18-32-32-18-4	115 (290) Mc Moscovium 2-8-18-32-32-18-5	116 (293) Lv Livermorium 2-8-18-32-32-18-6	117 (294) Ts Tennessine 2-8-18-32-32-18-7	118 (294) Og Oganesson 2-8-18-32-32-18-8												

*Lanthanides

57 138.91 La Lanthanum 2-8-18-18-9-2	58 140.12 Ce Cerium 2-8-18-19-9-2	59 140.91 Pr Praseodymium 2-8-18-21-8-2	60 144.24 Nd Neodymium 2-8-18-22-8-2	61 (145) Pm Promethium 2-8-18-23-8-2	62 150.36 Sm Samarium 2-8-18-24-8-2	63 151.96 Eu Europium 2-8-18-25-8-2	64 157.25 Gd Gadolinium 2-8-18-25-9-2	65 158.93 Tb Terbium 2-8-18-27-8-2	66 162.50 Dy Dysprosium 2-8-18-28-8-2	67 164.93 Ho Holmium 2-8-18-29-8-2	68 167.26 Er Erbium 2-8-18-30-8-2	69 168.93 Tm Thulium 2-8-18-31-8-2	70 173.05 Yb Ytterbium 2-8-18-32-8-2	71 174.97 Lu Lutetium 2-8-18-32-9-2
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**Actinides

89 (227) Ac Actinium 2-8-18-32-18-9-2	90 232.04 Th Thorium 2-8-18-32-18-10-2	91 231.04 Pa Protactinium 2-8-18-32-20-9-2	92 238.03 U Uranium 2-8-18-32-21-9-2	93 (237) Np Neptunium 2-8-18-32-22-9-2	94 (244) Pu Plutonium 2-8-18-32-24-8-2	95 (243) Am Americium 2-8-18-32-25-8-2	96 (247) Cm Curium 2-8-18-32-25-9-2	97 (247) Bk Berkelium 2-8-18-32-25-10-2	98 (251) Cf Californium 2-8-18-32-28-8-2	99 (252) Es Einsteinium 2-8-18-32-29-8-2	100 (257) Fm Fermium 2-8-18-32-30-8-2	101 (258) Md Mendelevium 2-8-18-32-31-8-2	102 (259) No Nobelium 2-8-18-32-32-8-2	103 (262) Lr Lawrencium 2-8-18-32-32-9-2
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