

Rainbow Periodic Table

with Quad electron data

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| 1 H hydrogen 2.20 +1 [He] 1 -1 | 2 He helium 4.003 [He] 2 |
| 1 Li lithium 6.941 0.98 +1 [He] 1 +1 | 2 Be beryllium 9.012 1.57 +2 [He] 2 +1 |
| 3 Na sodium 22.99 0.93 +1 [Ne] 1 -1 | 12 Mg magnesium 24.31 1.31 +2 [Ne] 2 +1 |
| 11 K potassium 39.10 0.82 +1 [Ar] 1 -1 | 20 Ca calcium 40.08 1.00 +2 [Ar] 2 +1 |
| 21 Sc scandium 44.96 1.36 +3 [Ar] 2 +1 | 22 Ti titanium 47.87 1.54 +4 [Ar] 2 -2 |
| 23 V vanadium 50.94 1.63 +5 [Ar] 2 -3 | 24 Cr chromium 52.00 1.66 +6 [Ar] 2 -4 |
| 25 Mn manganese 54.94 1.55 +7 [Ar] 2 -3 | 26 Fe iron 55.85 1.83 +7 [Ar] 2 -4 |
| 27 Co cobalt 58.93 1.88 +5 [Ar] 2 -3 | 28 Ni nickel 58.69 1.91 +4 [Ar] 2 -2 |
| 29 Cu copper 63.55 1.90 +4 [Ar] 2 -2 | 30 Zn zinc 65.38 1.65 +2 [Ar] 2 -2 |
| 31 Ga gallium 69.72 1.81 +3 [Ar] 2 -5 | 32 Ge germanium 72.63 2.01 +4 [Ar] 2 -4 |
| 33 As arsenic 74.92 2.18 +5 [Ar] 2 -3 | 34 Se selenium 78.97 2.55 +6 [Ar] 2 -2 |
| 35 Br bromine 79.90 2.96 +7 [Ar] 2 -1 | 36 Kr krypton 83.80 3.0 +2 [Ar] 2 +1 |
| 37 Rb rubidium 85.47 0.82 +1 [Kr] 1 -1 | 38 Sr strontium 87.62 0.95 +2 [Kr] 2 +1 |
| 39 Y yttrium 88.91 1.22 +3 [Kr] 2 +1 | 40 Zr zirconium 91.22 1.33 +4 [Kr] 2 -2 |
| 41 Nb niobium 92.91 1.6 +5 [Kr] 2 -3 | 42 Mo molybdenum 95.95 2.16 +6 [Kr] 2 -4 |
| 43 Tc (99) technetium 99.1 1.9 +7 [Kr] 2 -3 | 44 Ru ruthenium 101.1 2.2 +8 [Kr] 1 -4 |
| 45 Rh rhodium 102.9 2.28 +6 [Kr] 1 -3 | 46 Pd palladium 106.4 2.20 +4 [Kr] 1 -2 |
| 47 Ag silver 107.9 1.93 +3 [Kr] 1 -2 | 48 Cd cadmium 112.4 1.69 +2 [Kr] 1 -2 |
| 49 In indium 114.8 1.78 +3 [Kr] 1 -2 | 50 Sn tin 118.7 1.96 +4 [Kr] 2 -4 |
| 51 Sb antimony 121.8 2.05 +5 [Kr] 2 -3 | 52 Te tellurium 127.6 2.1 +6 [Kr] 2 -2 |
| 53 I iodine 126.9 2.66 +7 [Kr] 2 -1 | 54 Xe xenon 131.3 2.6 +8 [Kr] 2 +1 |
| 55 Cs caesium 132.9 0.79 +1 [Xe] 1 -1 | 56 Ba barium 137.3 0.89 +2 [Xe] 2 +1 |
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| 72 Hf hafnium 178.5 1.3 +4 [Xe] 2 -2 | 73 Ta tantalum 180.9 1.5 +5 [Xe] 2 -3 |
| 74 W tungsten 183.8 2.36 +6 [Xe] 2 -4 | 75 Re rhenium 186.2 1.9 +7 [Xe] 2 -3 |
| 76 Os osmium 190.2 2.2 +8 [Xe] 2 -4 | 77 Ir iridium 192.2 2.20 +9 [Xe] 2 -3 |
| 78 Pt platinum 195.1 2.28 +6 [Xe] 1 -3 | 79 Au gold 197.0 2.54 +5 [Xe] 1 -3 |
| 80 Hg mercury 200.6 2.00 +2 [Xe] 2 -2 | 81 Tl thallium 204.4 1.62 +3 [Xe] 2 -5 |
| 82 Pb lead 207.2 2.33 +4 [Xe] 2 -4 | 83 Bi bismuth 209.0 2.02 +5 [Xe] 2 -3 |
| 84 Po (210) polonium 210.0 2.0 +6 [Xe] 2 -2 | 85 At (222) astatine 212.0 2.2 +7 [Xe] 2 -1 |
| 86 Rn (222) radon 222.0 0.7 +1 [Rn] 1 +1 | |
| 87 Fr (223) francium 223.0 0.9 +2 [Rn] 2 +2 | 88 Ra (226) radium 226.0 1.5 +4 [Rn] 2 +4 |
| 104 Rf (267) rutherfordium 267.0 1.5 +4 [Rn] 2 +5 | 105 Db (268) dubnium 268.0 1.5 +5 [Rn] 2 +6 |
| 106 Sg (271) seaborgium 271.0 1.5 +6 [Rn] 2 +7 | 107 Bh (272) bohrium 272.0 1.5 +7 [Rn] 2 +8 |
| 108 Hs (277) hassium 277.0 1.5 +8 [Rn] 2 +8 | 109 Mt (276) meitnerium 276.0 1.5 +8 [Rn] 2 +8 |
| 110 Ds (281) darmstadtium 281.0 1.5 +8 [Rn] 2 +8 | 111 Rg (280) roentgenium 280.0 1.5 +2 [Rn] 2 +8 |
| 112 Cn (285) copernicium 285.0 1.5 +2 [Rn] 2 +10 | 113 Nh (278) nihonium 278.0 1.5 +2 [Rn] 2 +10 |
| 114 Fl (289) flerovium 289.0 1.5 +2 [Rn] 2 +10 | 115 Mc (289) moscovium 289.0 1.5 +3 [Rn] 2 +10 |
| 116 Lv (293) livermorium 293.0 1.5 +3 [Rn] 2 +10 | 117 Ts (294) tennessine 294.0 1.5 +3 [Rn] 2 +10 |
| 118 Og (294) oganesson 294.0 1.5 +3 [Rn] 2 +10 | |
| 119 Uue ununennium unbinilium [Og] 1 [Og] 2 | 120 Ubn unbinilium [Og] 1 [Og] 2 |
| * | |
| 57 La lanthanum 138.9 1.1 +3 [Xe] 2 +1 | 58 Ce cerium 140.1 1.12 +4 [Xe] 2 +2 |
| 59 Pr praseodymium 140.9 1.13 +5 [Xe] 2 +1 | 60 Nd neodymium 144.2 1.14 +4 [Xe] 2 +2 |
| 61 Pm promethium 145.0 1.13 +3 [Xe] 2 +2 | 62 Sm samarium 150.4 1.17 +3 [Xe] 2 +2 |
| 63 Eu europium 152.0 1.2 +3 [Xe] 2 +1 | 64 Gd gadolinium 157.3 1.2 +3 [Xe] 2 +1 |
| 65 Tb terbium 158.9 1.2 +4 [Xe] 2 +2 | 66 Dy dysprosium 162.5 1.22 +4 [Xe] 2 +2 |
| 67 Ho holmium 164.9 1.23 +3 [Xe] 2 +2 | 68 Er erbium 167.3 1.24 +3 [Xe] 2 +2 |
| 69 Tm thulium 173.0 1.25 +3 [Xe] 2 +2 | 70 Yb ytterbium 175.0 1.27 +3 [Xe] 2 +2 |
| 71 Lu lutetium 175.0 1.27 +3 [Xe] 2 +2 | |
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| 89 Ac (227) actinium 227.0 1.1 +3 [Rn] 2 +3 | 90 Th thorium 232.0 1.3 +4 [Rn] 2 +1 |
| 91 Pa protactinium 231.0 1.5 +5 [Rn] 2 +3 | 92 U uranium 238.0 1.38 +6 [Rn] 2 +2 |
| 93 Np (237) neptunium 237.0 1.36 +7 [Rn] 2 +2 | 94 Pu (239) plutonium 239.0 1.28 +8 [Rn] 2 +2 |
| 95 Am (243) americium 243.0 1.28 +7 [Rn] 2 +2 | 96 Cm (247) curium 247.0 1.28 +6 [Rn] 2 +3 |
| 97 Bk berkelium 247.0 1.3 +5 [Rn] 2 +3 | 98 Cf (252) californium 252.0 1.3 +6 [Rn] 2 +2 |
| 99 Es (257) einsteinium 257.0 1.3 +5 [Rn] 2 +2 | 100 Fm (258) fermium 258.0 1.3 +4 [Rn] 2 +2 |
| 101 Md (259) mendelevium 259.0 1.3 +3 [Rn] 2 +2 | 102 No (262) nobelium 262.0 1.3 +3 [Rn] 2 +2 |
| 103 Lr (262) lawrencium 262.0 1.3 +3 [Rn] 2 +3 | |

* atomic weight: 日本化学会原子量小委員会, '4 桁の原子量表(2020)', Chemical Society of Japan Atomic Weight Subcommittee, '4-digit atomic weight table (2020)' <https://www.chemistry.or.jp/activity/atomictable2020.pdf>

electronegativity(Pauling scale): [https://en.wikipedia.org/wiki/Electronegativities_of_the_elements_\(data_page\)](https://en.wikipedia.org/wiki/Electronegativities_of_the_elements_(data_page))

highest and lowest oxidation states: List of oxidation states of the elements https://en.wikipedia.org/wiki/Oxidation_state

18