Ptable

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 Pnictogens | 16 Chalcogens | 17 Halogens | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 H Hydrogen 2.20 | Atomic Sym Name Pauling | | | | | | | | | | | | | | | | 2 He Helium |
| 2 3 Li Lithium 0.98 | 4 Be Beryllium 1.57 | | | | | | | | | | | 5 B Boron 2.04 | 6 C Carbon 2.55 | 7 N Nitrogen 3.04 | 8 O Oxygen 3.44 | 9 F Fluorine 3.98 | 10 Ne Neon |
| 3 11 Na Sodium 0.93 | 12 Mg Magnesium 1.31 | | | | | | | | | | | 13 Al Aluminium 1.61 | 14 Si Silicon 1.90 | 15 P Phosphorus 2.19 | 16 S Sulfur 2.58 | 17 Cl Chlorine 3.16 | 18 Ar Argon |
| 4 19 K Potassium 0.82 | 20 Ca Calcium 1.0 | 21 Sc Scandium 1.36 | 22 Ti Titanium 1.54 | 23 V Vanadium 1.63 | 24 Cr Chromium 1.66 | 25 Mn Manganese 1.55 | 26 Fe Iron 1.83 | 27 Co Cobalt 1.88 | 28 Ni Nickel 1.91 | 29 Cu Copper 1.90 | 30 Zn Zinc 1.65 | 31 Ga Gallium 1.81 | 32 Ge Germanium 2.01 | 33 As Arsenic 2.18 | 34 Se Selenium 2.55 | 35 Br Bromine 2.96 | 36 Kr Krypton 3.0 |
| 5 37 Rb Rubidium 0.82 | 38 Sr Strontium 0.95 | 39 Y Yttrium 1.22 | 40 Zr Zirconium 1.33 | 41 Nb Niobium 1.6 | 42 Mo Molybdenun 2.16 | 43 Tc Technetium 1.9 | 44 Ru Ruthenium 2.2 | 45 Rh Rhodium 2.28 | 46 Pd Palladium 2.20 | 47 Ag Silver 1.93 | 48 Cd Cadmium 1.69 | 49 In Indium 1.78 | 50 Sn Tin 1.96 | 51 Sb Antimony 2.05 | 52 Te Tellurium 2.1 | 53 I Iodine 2.66 | 54 Xe Xenon 2.6 |
| 6 55 Cs Caesium 0.79 | 56 Ba Barium 0.89 | 57–71 | 72 Hf Hafnium 1.3 | 73 Ta Tantalum 1.5 | 74 W Tungsten 2.36 | 75 Re Rhenium 1.9 | 76 Os Osmium 2.2 | 77 Ir Iridium 2.20 | 78 Pt Platinum 2.28 | 79 Au Gold 2.54 | 80 Hg Mercury 2.0 | 81 Tl Thallium 1.62 | 82 Pb Lead 2.33 | 83 Bi Bismuth 2.02 | 84 Po Polonium 2.0 | 85 At Astatine 2.2 | 86 Rn Radon |
| 7 87 Fr Francium 0.7 | 88 Ra Radium 0.9 | 89–103 | 104 Rf Rutherfordiu | 105 Db Dubnium | 106 Sg Seaborgium | 107 Bh Bohrium | 108 Hs Hassium | 109 Mt Meitnerium | 110 Ds Darmstadtiur | 111 Rg Roentgeniur | 112 Cn Copernicium | 113 Nh Nihonium | 114 Fl Flerovium | 115 Mc Moscovium | 116 Lv Livermorium | 117 Ts Tennessine | 118 Og Oganesson |

9 F 2 7

Fluorine

18.998

[He] $2s^2$ $2p^5$

| | |
|---|---|
| Series | Halogen |
| State at 273 K | Gas |
| Melting Point | 53.5 K |
| Boiling Point | 85.03 K |
| Electronegativity | 3.98 |
| Electron Affinity | 328 kJ/mol |
| Valence | 1 |
| Ionization | 1681.0 kJ/mol |

| | |
|---|---|
| Radius | 42 pm |
| Hardness | Unknown |
| Modulus | Unknown |
| Density | 1.696 kg/m³ |
| Conductivity | 0.0277 W/mK |
| Heat | 824 J/kgK |
| Abundance | 0.000040% |
| Discovered | 1886 |

Electronegativity values range from a low of 0.7 (yellow) to 3.98 (red).