

1 H 1.008 Hydrogen 1s1 Oxidation States 1 Electroneg. 2.2 Atomic Radius 37 Electron Affinity 0.75 1st Ion. Pot. 13.60

2 He 4.003 Helium 1s2 Oxidation States - Electroneg. - Atomic Radius - Electron Affinity - 1st Ion. Pot. 24.59

3 Li 6.94 Lithium 4 Be 9.01 Beryllium 1s22s1 1s22s2 Oxidation States 1 2 Electroneg. 0.98 1.57 Atomic Radius 152 111 Electron Affinity 0.62 5.39 9.32

11 Na 22.99 Sodium 12 Mg 24.31 Magnesium [Ne]3s1 [Ne]3s2 Oxidation States 1 2 Electroneg. 0.93 1.31 Atomic Radius 186 160 Electron Affinity 0.55 5.14 7.65



# Periodic Table

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ADVANCED

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## Atomic, Physical, Chemical Properties and Natural Isotopes

- Electronegativity:** Pauling scale; measures ability of atom to attract electrons in a chemical bond
- Atomic Radius:** given in "pm"; 1 pm = 1x10<sup>-12</sup>m
- Ionic Radius:** given in "pm"; 1 pm = 1x10<sup>-12</sup>m
- Electron Affinity:** energy released in the formation of an anion; given in "eV"
- 1st Ionization Potential:** energy required to remove one electron, forming a cation; given in "eV"

- Atomic Number:** number of protons
- Atomic Weight:** weighted average of atomic masses of natural isotopes
- \* - mass number of the most stable isotope for each radioactive element

Main periodic table grid containing elements from Potassium (19) to Francium (87) and Radium (88). Includes atomic number, symbol, name, atomic weight, and various physical/chemical properties.

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LANTHANIDE SERIES

Lanthanide series table (elements 58-71) including Cerium, Praseodymium, Neodymium, Promethium, Samarium, Europium, Gadolinium, Terbium, Dysprosium, Holmium, Erbium, Thulium, Ytterbium, Lutetium.

ACTINIDE SERIES

Actinide series table (elements 90-103) including Thorium, Protactinium, Uranium, Neptunium, Plutonium, Americium, Curium, Berkelium, Californium, Einsteinium, Fermium, Mendelevium, Nobelium, Lawrencium.

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