Name : Argon

Symbol : Ar

Atomic number (Z) : 18

Atomic mass : 39.948

Group : 18

Period : 3

block : p

Color : Colorless

Phase :gas

Oxidation states : 0

Electronegativity : Pauling scale: no data

Melting point : 83.81 K (-189.34 °C, -308.81 °F)

Boiling point : 87.302 K (-185.848 °C, -302.526 °F)

Density at stp : 1.784 g/L

Triple point : 83.8058 K, 68.89 kPa

Critical point : 150.687 K, 4.863 MPa

Heat of fusion : 1.18 kJ/mol

Heat of vaporization : 6.53 kJ/mol

Molar heat capacity : 20.85 J/(mol•K)

Ionization energies : 1st: 1520.6 kJ/mol

Covalent radius : 106±10 pm

Van der Waals radius : 188 pm

Speed of sound : 323 m/s (gas, at 27 °C)

Crystal structure : face-centered cubic (fcc)

Magnetic ordering : diamagnetic

Discovery : Lord Rayleigh

Named by :