Name : Bromine

Symbol : Br

Atomic number (Z) : 35

Atomic mass : 79.904

Group : 17

Period : 4

block : p

Color : Red

Phase : Liquid

Oxidation states : 7, 5, 4, 3, 1, -1

Electronegativity : Pauling scale: 2.96

Melting point : 265.8 K (-7.2 °C, 19 °F)

Boiling point : 332.0 K (58.8 °C, 137.8 °F)

Density at stp : Br2, liquid: 3.1028 g/cm3

Triple point : 265.90 K, 5.8 kPa

Critical point : 588 K, 10.34 MPa

Heat of fusion : (Br2) 10.571 kJ/mol

Heat of vaporization : (Br2) 29.96 kJ/mol

Molar heat capacity : (Br2) 75.69 J/(mol•K)

Ionization energies : 1st: 1139.9 kJ/mol

Covalent radius : 120±3 pm

Van der Waals radius : 185 pm

Speed of sound : 206 m/s (at 20 °C

Crystal structure : orthorhombic

Magnetic ordering : diamagnetic

Discovery and first isolation : Antoine Jérôme Balard and Leopold Gmelin (1825)