Name:Iodine

Symbol:I

Atomic number(Z):53

Atomic mass:140 pm

Group:17

Period:5

block:p

Color:silver

Phase:solid

Oxidation states:7,6,5,4,3,2,1,-1,-2

Electronegative:pauling scale:2.66

Melting point:386.65k

Boiling point:457.4k

Density at stp:4.933g/cm

Triple point:386.65 k

Critical point:819k k

Heat of fusion:15.52 kj/mol

Heat of vaporization:41.57 kj/mol

Molar heat capacity:54.44 j/(mol.k)

Ionization energies:1st:1008 kj/mol

Covalant radius:139+3 pm

Van der waals radius:198pm

Speed of sound:2600m/s

Cristal structure:hexagonal

Magnetic ordering:diamagnetic

Discovery:1811

Named:Franz-Bernard Courtois