Name : Cobalt

Symbol : Co

Atomic number (Z) :27

Atomic mass : 58.933194

Group : 9

Period : 4

block : d

Color : Gray

Phase : solid

Oxidation states : -3, -1, +1, +2, +3, +4, +5

Electronegativity : Pauling scale: 1.88

Melting point : 1768 K (1495 °C, 2723 °F)

Boiling point : 3200 K (2927 °C, 5301 °F)

Density at stp : 8.90 g/cm3

Triple point :

Critical point :

Heat of fusion : 16.06 kJ/mol

Heat of vaporization : 377 kJ/mol

Molar heat capacity : 24.81 J/(mol•K)

Ionization energies : 1st: 760.4 kJ/mol

Covalent radius : Low spin: 126±3 pm

High spin: 150±7 pm

Van der Waals radius :

Speed of sound : 4720 m/s (at 20 °C)

Crystal structure : hexagonal close-packed (hcp)

Magnetic ordering : ferromagnetic

Discovery : Georg Brandt (1732)

Named by :