Name : Oxygen

Symbol : O

Atomic number (Z) : 8

Atomic mass : 15.999

Group : 16

Period : 2

block : p

Color : Colorless

Phase :gas

Oxidation states : 2, 1, -1, -2

Electronegativity : Pauling scale: 3.44

Melting point : 54.36 K (-218.79 °C, -361.82 °F)

Boiling point : 90.188 K

Density at stp : 1.429 g/L

Triple point : 54.361 K, 0.1463 kPa

Critical point : 154.581 K, 5.043 MPa

Heat of fusion : (O2) 0.444 kJ/mol

Heat of vaporization : (O2) 6.82 kJ/mol

Molar heat capacity : (O2) 29.378 J/(mol•K)

Ionization energies : 66±2 pm

Covalent radius : 66±2 pm

Van der Waals radius : 152 pm

Speed of sound : 30 m/s (gas, at 27 °C)

Crystal structure : cubic

Magnetic ordering : paramagnetic

Discovery : Carl Wilhelm Scheele (1772)

Named by : Antoine Lavoisier (1777)