Name : Nitrogen

Symbol : N

Atomic number (Z) : 7

Atomic mass : 14.007

Group : 15

Period : 2

block : p

Color : Colorless

Phase :gas

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

Electronegativity : Pauling scale: 3.04

Melting point : 63.15 K (-210.00 °C, -346.00 °F)

Boiling point : 77.355 K (-195.795 °C, -320.431 °F)

Density at stp : 1.251 g/L

Triple point : 63.151 K, 12.52 kPa

Critical point : 126.192 K, 3.3958 MPa

Heat of fusion : (N2) 0.72 kJ/mol

Heat of vaporization : (N2) 5.56 kJ/mol

Molar heat capacity : (N2) 29.124 J/(mol•K)

Ionization energies : 1st: 1402.3 kJ/mol

Covalent radius : 71±1 pm

Van der Waals radius : 155 pm

Speed of sound : 353 m/s (gas, at 27 °C)

Crystal structure : hexagonal

Magnetic ordering : diamagnetic

Discovery : Daniel Rutherford (1772)

Named by : Jean-Antoine Chaptal (1790)