Name : Neon

Symbol : Ne

Atomic number (Z) : 10

Atomic mass : 20.1797

Group : 18

Period : 2

block : p

Color : Colorless

Phase :gas

Oxidation states : 0

Electronegativity : Pauling scale:

Melting point : 24.56 K (-248.59 °C, -415.46 °F)

Boiling point : 27.104 K (-246.046 °C, -410.883 °F)

Density at stp : 0.9002 g/L

Triple point : 24.556 K, 43.37 kPa

Critical point : 44.4918 K, 2.7686 MPa

Heat of fusion : 0.335 kJ/mol

Heat of vaporization : 1.71 kJ/mol

Molar heat capacity : 20.79 J /(mol•K)

Ionization energies : 1st: 2080.7 kJ/mol

Covalent radius : 58 pm

Van der Waals radius : 154 pm

Speed of sound : 435 m/s (gas, at 0 °C)

Crystal structure : face-centered cubic (fcc)

Magnetic ordering : diamagnetic

Discovery and first isolation: William Ramsay & Morris Travers(1898)