Name : Hydrogen

Symbol : H

Atomic number (Z) : 1

Atomic mass : 1.008

Group : 1

Period : 1

block : s

Color : colorless

Phase : gas

Oxidation states : -1, +1

Electronegativity : Pauling scale: 2.20

Melting point : 13.99 K (-259.16°C, -434.49 °F)

Boiling point : 20.271 K (-252.879 °C, -423.182 °F)

Density at stp : 0.08988 g/L

Triple point : 13.8033 K, 7.041 kPa

Critical point : 32.938 K, 1.2858 MPa

Heat of fusion : (H2) 0.117 kJ/mol

Heat of vaporization : (H2) 0.904 kJ/mol

Molar heat capacity : (H2) 28.836 J/(mol•K)

Ionization energies : 1st: 1312.0 kJ/mol

Covalent radius : 31±5 pm

Van der Waals radius : 120 pm

Speed of sound : 1310 m/s (gas, 27 °C)

Crystal structure : hexagonal

Magnetic ordering : diamagnetic

Discovery : Henry Cavendish (1766)

Named by : Antoine Lavoisier (1783)