

PERIODIC TABLE (ADVANCED)

Molecular Structure of Hydrogen



Basic Information

Name: Hydrogen
Symbol: H
Atomic Number: 1
Atomic Mass: 1.00794 amu
Melting Point: -259.14°C ($14.009185^{\circ}\text{K}$, $-434.41203^{\circ}\text{F}$)
Boiling Point: -252.87°C ($20.280005^{\circ}\text{K}$, -423.166°F)
Number of Protons/Electrons: 1
Number of Neutrons: 0
Classification: Non-metal
Crystal Structure: Hexagonal
Density @ 293 K: 0.08989 g/cm³
Color: colorless

Atomic Structure

Number of Energy Levels: 1
First Energy Level: 1

Isotopes

Isotope	Half-life
H-1	Stable
H-2	Stable
H-3	12.3 years

Facts

Name Origin: Greek word *hydro* (water) and *genes* (generated)
Uses: Balloons, metal refining
Obtained From: mines, oil, gas wells

Molecular Structure of Carbon



Name: Carbon

Symbol: C
Atomic Number: 6
Atomic Mass: 12.0107 amu
Melting Point: 3500.0°C (3773.15°K , 6332.8°F)
Boiling Point: 4827.8°C (5100.95°K , 8700.0°F)
Number of Protons/Electrons: 6
Number of Neutrons: 6
Classification: Non-metal
Crystal Structure: Hexagonal
Density @ 293 K: 2.62 g/cm³
Color: May be black

Atomic Structure

Number of Energy Levels: 2
First Energy Level: 2 Second Energy Level: 4

Isotopes

Isotope	Half-life
C-11	20.3 minutes
C-12	Stable
C-13	Stable
C-14	5730.0 years
C-15	2.3 seconds

Facts

Uses: steel, fibers
Obtained From: burning with insufficient oxygen

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Speedy Publishing



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