

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 (-414.65495 °F)

Boiling Point: -252.87 °C (-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	12.5 years

Facts

Name Origin: Greek words *hydro* (water) and *genes* (generated)

Uses: Balloons, metal refining

Obtained From: natural, all gas water

Molecular Structure of Carbon



Name: Carbon

Symbol: C

Atomic Number: 6

Atomic Mass: 12.0107 amu

Melting Point: 3500 °C (6313.15 °F)

Boiling Point: 4827.1 °C (8720.8 °F)

Number of Protons/Electrons: 6

Number of Neutrons: 6

Classification: Non-metal

Crystal Structure: Hexagonal

Density @ 293 K: 2.267 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 years
C-15	2.3 seconds

Facts

Uses: steel, glass

Obtained From: burning with insufficient oxygen

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