

# PERIODIC TABLE (ADVANCED)

Molecular Structure of Hydrogen



## Basic Information

Name: Hydrogen

Symbol: H

Atomic Number: 1

Atomic Mass: 1.00794 amu

Melting Point:  $-259.14^{\circ}\text{C}$  ( $-314.59995^{\circ}\text{K}$ ,  $-434.41203^{\circ}\text{F}$ )

Boiling Point:  $-252.87^{\circ}\text{C}$  ( $-335.35595^{\circ}\text{K}$ ,  $-425.166^{\circ}\text{F}$ )

Number of Protons/Electrons: 1

Number of Neutrons: 0

Classification: Non-metal

Crystal Structure: Hexagonal

Density @  $293^{\circ}\text{K}$ :  $8.9898\text{ g/cm}^3$

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: 12.0097 amu

Melting Point:  $3500^{\circ}\text{C}$  ( $3773.15^{\circ}\text{K}$ ,  $6312.8^{\circ}\text{F}$ )

Boiling Point:  $4602.1^{\circ}\text{C}$  ( $5100.15^{\circ}\text{K}$ ,  $8320.6^{\circ}\text{F}$ )

Number of Protons/Electrons: 6

Number of Neutrons: 6

Classification: Non-metal

Crystal Structure: Hexagonal

Density @  $293^{\circ}\text{K}$ :  $2.62\text{ g/cm}^3$

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, flame

Obtained From: burning with insufficient oxygen

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**Xiang Xie**



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