

# HYDROCARBONS



## Hydrocarbon Compounds

Hydrocarbon compounds are compounds that consist only of carbon and hydrogen atoms. Hydrocarbons can be divided into 2, namely:

### a. Saturated Hydrocarbons: single bonds

including saturated hydrocarbons :

- Alkane : open chain ( $C_nH_{2n+2}$ )
- Cycloalkane : closed chain ( $C_nH_{2n}$ )

### b. Unsaturated Hydrocarbons: double bonds

- Alkene : double bond ( $C_nH_{2n}$ )
- Alkyne : triple bond ( $C_nH_{2n-2}$ )
- Alkadiene : two double bonds ( $C_nH_{2n-2}$ )



## Nomenclature of Alkanes

The nomenclature of alkanes is the basis for the nomenclature of other carbon compounds. Therefore the nomenclature of alkanes must be thoroughly understood.

Here are the names of alkanes from  $C_1$ - $C_{10}$  :

Formula	Name	Formula	Name
$CH_4$	methane	$C_6H_{14}$	hexane
$C_2H_6$	ethane	$C_7H_{16}$	heptane
$C_3H_8$	propane	$C_8H_{18}$	octane
$C_4H_{10}$	butane	$C_9H_{20}$	nonane
$C_5H_{12}$	pentane	$C_{10}H_{22}$	decane

Alkene names :

$C_2H_4$  = ethylene

$C_3H_6$  = propene

# Hydrocarbons Study Guide

**Mr. Ajeet Singh**



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Krenos, Joseph Potenza, Carl Hoeger, 2007-01-18 Written for general chemistry courses Chemical Principles helps students develop chemical insight by showing the connection between chemical principles and their applications

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