## **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<sub>n</sub>H<sub>2n+2</sub>)
- Cycloalkane : closed chain (C<sub>n</sub>H<sub>≥n</sub>)

### b. Unsaturated Hydrocarbons: double bonds

- Alkene: double bond (C<sub>n</sub>H<sub>2n</sub>)
- Alkyne : triple bond (C<sub>n</sub>H<sub>2n-2</sub>)
- Alkadiene : two double bonds (C<sub>n</sub>H<sub>2n-2</sub>)



# 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 askanes from C1-C10:

Formula	Name	Formula	Name
CH <sub>4</sub>	methane	C6H14	hexane
C <sub>2</sub> H <sub>6</sub>	ethane	C7H16	heptane
C <sub>3</sub> H <sub>8</sub>	propane	C <sub>8</sub> H <sub>18</sub>	octane
C4H10	butane	C9H20	nonane
C <sub>5</sub> H <sub>12</sub>	pentane	C <sub>10</sub> H <sub>22</sub>	decane

### Atkene names :

 $C_2H_4$  = ethylene

 $C_3H_6$  = propene

# **Study Guide For Hydrocarbons Compounds Answers**

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