

# 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

# Hydrocarbon Study Guide

**K Morrison**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Hydrocarbon Study Guide:**

The book delves into Hydrocarbon Study Guide. Hydrocarbon Study Guide is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hydrocarbon Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Hydrocarbon Study Guide
    - Chapter 2: Essential Elements of Hydrocarbon Study Guide
    - Chapter 3: Hydrocarbon Study Guide in Everyday Life
    - Chapter 4: Hydrocarbon Study Guide in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Hydrocarbon Study Guide. The first chapter will explore what Hydrocarbon Study Guide is, why Hydrocarbon Study Guide is vital, and how to effectively learn about Hydrocarbon Study Guide.
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  4. In chapter 3, the author will examine the practical applications of Hydrocarbon Study Guide in daily life. This chapter will showcase real-world examples of how Hydrocarbon Study Guide can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Hydrocarbon Study Guide in specific contexts. This chapter will explore how Hydrocarbon Study Guide is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Hydrocarbon Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hydrocarbon Study Guide.

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