

## STUDY GUIDE FOR MODULE NO. 4

## HYDROCARBON CHAINS AND RINGS

## MODULE OVERVIEW

Many hydrocarbons occur in nature. In addition to making up fossil fuels, they are present in trees and plants, as, for example, in the form of pigments called carotenes that occur in carrots and green leaves. More than 98 percent of natural crude rubber is a hydrocarbon polymer, a chainlike molecule consisting of many units linked together. The structures and chemistry of individual hydrocarbons depend in large part on the types of chemical bonds that link together the atoms of their constituent molecules.

Nineteenth-century chemists classified hydrocarbons as either aliphatic or aromatic on the basis of their sources and properties. Aliphatic (from Greek *aliphatic*, "fat") described hydrocarbons derived by chemical degradation of fats or oils. Aromatic hydrocarbons constituted a group of related substances obtained by chemical degradation of certain pleasant-smelling plant extracts. The terms aliphatic and aromatic are retained in modern terminology, but the compounds they describe are distinguished on the basis of structure rather than origin.

## MODULE LEARNING OBJECTIVES

At the end of the unit, the student should be able to:

1. Identify the structures and homologous members of alkene, alkane and alkyne families
2. Describe the structure of benzene and the substituted aromatics
3. Name the organic compounds using IUPAC
4. Differentiate the types of structural compounds

## LESSON 1: HYDROCARBONS: REPRESENTATIVE ALKANES, ALKENES, ALKYNES, AND AROMATIC COMPOUNDS

## HYDROCARBONS:

The simplest organic compounds are those composed of only two elements: carbon and hydrogen. These compounds are called hydrocarbons. Hydrocarbons themselves are separated into two types: aliphatic hydrocarbons and aromatic hydrocarbons. Aliphatic hydrocarbons are hydrocarbons based on chains of C atoms. There are three types of aliphatic hydrocarbons. Alkanes are aliphatic hydrocarbons with only single covalent bonds. Alkenes are aliphatic hydrocarbons that contain at least one C=C double bond, and alkynes are aliphatic hydrocarbons that contain a C=C triple bond. Occasionally, we find an aliphatic hydrocarbon with a ring of C atoms; these hydrocarbons are called cycloalkanes (or cycloalkenes or cycloalkynes).

The general molecular formulas and molecular structures of the alkanes, alkenes, and alkynes.

Group	General Molecular Formula	Example Compound	Molecular Structure
Alkanes	$C_nH_{2n+2}$	Ethane	$  \begin{array}{c} H & H \\   &   \\ H & - & O & - & C & - & H \\   &   \\ H & H \end{array}  $
Alkenes	$C_nH_{2n}$	Ethene	$  \begin{array}{c} H & & H \\ & \diagup & \diagdown \\ & C & = & C \\ & \diagdown & \diagup \\ H & & H \end{array}  $
Alkynes	$C_nH_{2n-2}$	Ethyne	$  \begin{array}{c} H & & H \\ & \diagup & \diagdown \\ & C & \equiv & C \\ & \diagdown & \diagup \\ H & & H \end{array}  $

# Hydrocarbons Study Guide

**Arshad Iqbal**

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**Guide/solutions Manual to Accompany Foundations of Inorganic, Organic, and Biological Chemistry** Katherine J.

Denniston,1995 This student study guide has been written to accompany Foundations of Inorganic Organic and Biological Chemistry by Caret Denniston and Topping It was designed to complement the text not to be used in place of the text Each chapter of the study guide contains the following sections reorganized and expanded set of learning goals concise chapter summary in chapter solved problems list of key terms review problems Preface **Student Study Guide Fundamentals of Chemistry by David E. Goldberg** Margaret G. Kimble,1994

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Solomons,1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

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His only answer was Himself But as Job discovered that was enough The Gospel According to Job sensitively brings the reader to this realization using a devotional commentary format that reminds them that it's all right to doubt to be confused to wonder in short to be completely human But what will heal us and help us endure is a direct transforming encounter with the living God

**Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e**

Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

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