

## 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 \\ & &   & &   \\ & & C & = & C \\ & &   & &   \\ & & H & & H \end{array}  $
Alkynes	$C_nH_{2n-2}$	Ethyne	$  \begin{array}{c} & & H & & \\ & &   & & \\ & & C & \equiv & C \\ & &   & &   \\ & & H & - & C & - & H \end{array}  $

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**Arshad Iqbal**

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Judith E. Tintinalli,J. Stephan Staczynski,O. John Ma,David M. Cline,Garth D. Meckler,2016-03-22 The most widely used and highly regarded textbook and reference of emergency medicine Endorsed by the American College of Emergency Physicians The 8th edition of Tintinalli s Emergency Medicine provides the depth and breadth of coverage that reflects the complexity and expertise needed to practice emergency medicine successfully in today s fast paced environments It is an important contemporary clinical emergency care resource for physicians NPs and PAs who practice emergency medicine and for emergency medicine and pediatric emergency medicine fellows It remains the preferred study guide for in training and board examinations and recertification NEW to this edition Full color design with more tables than ever to succinctly present key information Extensive updates to all sections incorporating the latest guidelines evidence based protocols and relevant research Expanded pediatric section with complete clinical information for general and pediatric emergency physicians Expanded coverage of common emergency department procedures with improved illustrations Online access to more than 30 videos covering a wide range of procedural and diagnostic topics and focusing on the latest ultrasound guided techniques From the reviews of the seventh edition Collectively they have once again produced an excellent text that manages to cover the broad scope of emergency medicine while remaining an easily readable and practical resource Last for the inevitable comparison of this current edition of Tintinalli s Emergency Medicine with other available emergency medicine textbooks available in my opinion Tintinalli s still comes out on top It is more concise and easier to read than some yet it covers the breadth of emergency medicine practice more comprehensively than others Just as previous editions did the seventh presents all of the most pertinent and up to date information in a well organized format that is comprehensive yet easy to read That and many of the attractive new features in this current edition will ensure its place on my bookshelf for years to come JAMA

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