## **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>)
- a 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
CH4	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

# **Hydrocarbons Study Guide**

**Barbara Ucko** 

## **Hydrocarbons Study Guide:**

Chemical Principles Study Guide/Solutions Manual John 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 "O" Level Study Guide - Chemistry Quite Easily Done, Study Guide (Second Edition) Jill Meryl Levy, 2011 Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter guizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered Study Guide to Accompany Calculus for the Management, Life, and Social Sciences Clyde exercises in the text Metz,1984-01-01 Study Guide to Accompany Calculus for the Management Life and Social Sciences A Self-study Guide to the Principles of Organic Chemistry Jiben Roy, 2013 A Self Study Guide to the Principles of Organic Chemistry Key Concepts Reaction Mechanisms and Practice Questions for the Beginner will help students new to organic chemistry grasp the key concepts of the subject quickly and easily as well as build a strong foundation for future study Starting with the definition of atom the author explains molecules electronic configuration bonding hydrocarbons polar reaction mechanisms stereochemistry reaction varieties organic spectroscopy aromaticity and aromatic reactions biomolecules organic polymers and a synthetic approach to organic compounds The over one hundred diagrams and charts contained in this volume will help students visualize the structures and bonds as they read the text and make the logic of organic chemistry clear and easily understood Each chapter ends with a list of frequently asked questions and answers followed by additional practice problems Answers are included in the Appendix Chemical Principles Student's Study Guide & Solutions Manual John Krenos, Joseph Potenza, Loretta Jones, Lynn Koplitz, Thomas Spence, 2004-03-19 This combination manual is designed to help students avoid common mistakes and understand the material better The solutions manual section includes detailed answers

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Barbara Ucko,2012-12-02 Student Guide for Living Chemistry is a 23

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