

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
C_1H_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

Ch 22 Study Guide Hydrocarbons

Darrell D. Ebbing

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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.

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.

Study Guide, Chemical Principles, Fifth Edition, Zumdahl Paul B. Kelter, Steven S. Zumdahl, 2004-04 **Hazmat Chemistry Study Guide (Second Edition)** Jill Meryl Levy, 2011 *Study and Problem Solving Guide to Accompany Principles of Modern Chemistry*, Oxtoby/Nachtrieb, Wade A. Freeman, 1986

Know Your 'O' Level Chemistry - A Study Guide, *Study Guide for Chemical Principles* [by] Steven S. Zumdahl Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text. The new edition of the Study Guide includes many new worked out examples.

Study Guide for Chemical Principles Thomas Elliott Taylor, 1979 **Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today** Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text. This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises. New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application.

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General Chemistry Study

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