

Chapter 22

Hydrocarbon Compounds

22.1 Hydrocarbons

Organic Chemistry and Hydrocarbons

- Some thought that only living organisms could synthesize the carbon compounds found in living cells.
- German chemist **Friedrich Wöhler** was able to synthesize inorganic substances into synthetic organic compounds in 1828.
- Today, organic chemistry involves the discovery of almost all carbon compounds, except carbonates and cyanides.

Introduction to Hydrocarbons

Hydrocarbon compounds contain only hydrogen and carbon.

Hydrocarbon is an organic compound composed of carbon and hydrogen.

Hydrocarbons form two distinct categories as follows when they're drawn from natural sources.

Hydrocarbons are divided into **aliphatic** and **aromatic** hydrocarbons, depending on their chemical structure.

Aliphatic is the largest of the two categories, and organic compounds derived from either natural or synthetic sources can be classified as aliphatic.

They include all carbon compounds except aromatic compounds. In other words, hydrocarbons that aren't cyclic aromatic compounds.



The Properties of Hydrocarbons

Hydrocarbons are organic molecules.

Hydrocarbons form the simplest compounds that don't contain oxygen, i.e., the hydrocarbons with the lowest molecular weight for the greatest number of carbon atoms.

Hydrocarbons are the simplest organic compounds.

Hydrocarbons are the simplest organic compounds, with the lowest molecular weight.

Hydrocarbon Compounds Ch 22 Study Guide

Paul B. Kelter



Hydrocarbon Compounds Ch 22 Study Guide:

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 CH_4 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

Organic Chemistry Study Guide Robert J. Ouellette, J. David Rawn, 2014-11-04 Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true understanding comes only from concentrated reading and working as many problems as possible In fact problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place Helps readers learn to categorize analyze and solve organic chemistry problems at all levels of difficulty Hundreds of fully worked practice problems all with solutions Key concept summaries for every chapter reinforces core content from the companion book

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

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Manual for Essentials of General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15

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Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years

Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl Paul B. Kelter, 1993 **Organic Chemistry, 5e Student Study Guide and Solutions Manual** David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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Oxtoby/Nachtrieb Wade A. Freeman, 1986

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