

CHAPTER - 13

H Y D R O C A R B O N S

HydroCarbons: - A Compound of Carbon and Hydrogen is known as HydroCarbon.

Saturated hydroCarbon: - A Carbon is Said to be Saturated if it Contains only C-C single bonds.

For example: Ethane $\text{CH}_3 - \text{CH}_3$

Unsaturated hydroCarbon: - A hydroCarbon is Said to be Unsaturated if it Contains $\text{C}=\text{C}$ or $\text{C}\equiv\text{C}$ multiple bonds.

example: ethene $\text{CH}_2 = \text{CH}_2$

ethyne $\text{HC} \equiv \text{CH}$

Aromatic HydroCarbon: - benzene and its derivatives are called aromatic Compounds.

Ex:-



Aliphatic Compounds: - Cyclic Compounds which

Notes On Hydrocarbons

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Notes On Hydrocarbons:

Hydrocarbon Chemistry George A. Olah,Árpád Molnár,2003-09-10 Hydrocarbons and their transformations play major roles in chemistry as raw materials and sources of energy Diminishing petroleum supplies regulatory problems and environmental concerns constantly challenge chemists to rethink and redesign the industrial applications of hydrocarbons Written by Nobel Prize winner George Olah and hydrocarbon expert Árpád Molnár the completely revised and expanded Second Edition of *Hydrocarbon Chemistry* provides an unparalleled contemporary assessment of the field presenting basic concepts current research and future applications *Hydrocarbon Chemistry* begins by discussing the general aspects of hydrocarbons the separation of hydrocarbons from natural sources and the synthesis from C1 precursors with recent developments for possible future applications Each successive chapter deals with a specific type of hydrocarbon transformation The Second Edition includes a new section on the chemical reduction of carbon dioxide focusing on catalytic ionic electrocatalytic photocatalytic and enzymatic reductions as well as a new chapter on new catalysts and activation methods combinatorial chemistry and environmental chemistry Other topics covered include Major processes of the petrochemical industry such as cracking reforming isomerization and alkylation Derivation reactions to form carbon heteroatom bonds Hydrocarbon oxidations Metathesis Oligomerization and polymerization of hydrocarbons All chapters have been updated by adding sections on recent developments to review new advances and results Essential reading for practicing scientists in industry polymer and catalytic chemists as well as researchers and graduate students *Hydrocarbon Chemistry* Second Edition remains the benchmark text in its field [Thermophysical Properties of Individual Hydrocarbons of Petroleum and Natural Gases](#)

Boris A. Grigoriev,Anatoly A. Gerasimov,Igor S. Alexandrov,Boris Nemzer,2022-07-09 *Thermophysical Properties of Individual Hydrocarbons of Petroleum and Natural Gases* Properties Methods and Low Carbon Technologies is a go to data source for engineers who need derive property data on everyday components Providing more precise data improves existing oil and gas processing systems and creates opportunities for more sustainable operations and equipment such as hydrogen and carbon capture Covering modern equations of state this source discusses detailed descriptions of experimental apparatus methods of measurement corrections and error estimates as well as results of previous experiments Generalized predictive methods for calculating viscosity and thermal conductivity are also covered Rounding out with property databases and lower carbon technology advances the book gives today's engineers a detailed study of methods for more sustainable experimental research of thermophysical properties Teaches approaches for the measurement and modeling of thermophysical properties for future sustainability growth including hydrogen and carbon capture Provides exact property data of natural gas and their main components including saturated properties Gives readers new knowledge in experimental measurement procedures and guidelines for calculating thermophysical properties along with updates on applications

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Table of Contents Notes On Hydrocarbons

1. Understanding the eBook Notes On Hydrocarbons
 - The Rise of Digital Reading Notes On Hydrocarbons
 - Advantages of eBooks Over Traditional Books
2. Identifying Notes On Hydrocarbons
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Notes On Hydrocarbons
 - User-Friendly Interface
4. Exploring eBook Recommendations from Notes On Hydrocarbons
 - Personalized Recommendations
 - Notes On Hydrocarbons User Reviews and Ratings
 - Notes On Hydrocarbons and Bestseller Lists
5. Accessing Notes On Hydrocarbons Free and Paid eBooks
 - Notes On Hydrocarbons Public Domain eBooks
 - Notes On Hydrocarbons eBook Subscription Services
 - Notes On Hydrocarbons Budget-Friendly Options

-
6. Navigating Notes On Hydrocarbons eBook Formats
 - ePub, PDF, MOBI, and More
 - Notes On Hydrocarbons Compatibility with Devices
 - Notes On Hydrocarbons Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Notes On Hydrocarbons
 - Highlighting and Note-Taking Notes On Hydrocarbons
 - Interactive Elements Notes On Hydrocarbons
 8. Staying Engaged with Notes On Hydrocarbons
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Notes On Hydrocarbons
 9. Balancing eBooks and Physical Books Notes On Hydrocarbons
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Notes On Hydrocarbons
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Notes On Hydrocarbons
 - Setting Reading Goals Notes On Hydrocarbons
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Notes On Hydrocarbons
 - Fact-Checking eBook Content of Notes On Hydrocarbons
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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- Interactive and Gamified eBooks

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