

STUDY GUIDE 3: Introduction to Organic Molecules and Functional Groups

Functional Groups

Organic molecules that contain just C and H atoms are called hydrocarbons. They can be saturated (alkanes) or unsaturated (alkenes, alkynes, arenes). Other organic molecules are molecules that contain hydrocarbon units with functional groups attached. Those functional groups can include any of the CHNOPS elements.

Hydrocarbons

UNSAT = ALKENE + ALKYN + AROMATIC/AREN

Hydrocarbons: They contain only Carbon and Hydrogen and can be classified as aliphatic:
saturated (alkanes) or unsaturated (alkenes, alkynes) or aromatic compounds.

old aromatic

new
aromatic

ringing

Draw examples of the following:

An alkane



An alkyne



An alkene



An aromatic compound



Carbon atoms in alkanes are classified by the number of carbon atoms attached to them.



1° carbon



2° carbon



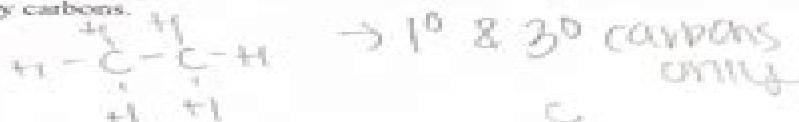
3° carbon



4° carbon

Draw a hydrocarbon that contains only primary carbons, another with primary and tertiary carbons only, and another with secondary and tertiary carbons.

→ Only 1° carbons:



→ 2° & 3° carbons:



Organic Molecules Report Guide

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Table of Contents Organic Molecules Report Guide

1. Understanding the eBook Organic Molecules Report Guide
 - The Rise of Digital Reading Organic Molecules Report Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Organic Molecules Report Guide
 - 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 Organic Molecules Report Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Organic Molecules Report Guide
 - Personalized Recommendations
 - Organic Molecules Report Guide User Reviews and Ratings
 - Organic Molecules Report Guide and Bestseller Lists
5. Accessing Organic Molecules Report Guide Free and Paid eBooks
 - Organic Molecules Report Guide Public Domain eBooks
 - Organic Molecules Report Guide eBook Subscription Services

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

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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