

Unit 2 Study Guide

Organic Chemistry I: Chapters 4-6

Chapter 4: Alkanes

Key terms

Hydrocarbon	Newman Projection	Torsional strain
Conformation	Angle strain	Steric strain
Dihedral angle	gauche interactions	1,3-diaxial interactions

Concepts and applications

- Determine the IUPAC name of alkanes, cycloalkanes, and bicycloalkanes given their structure
- Draw the structure of alkanes, cycloalkanes, and bicycloalkanes given their IUPAC name
- Recognize or draw constitutional isomers of alkanes
- Describe the effect of chain length and/or branching on physical properties
- Draw a Newman project of a provided bond-line structure
 - Draw all possible conformations
 - Determine most and least stable conformer
 - Calculate the total energy of a conformation (you should know the energy values of H/H and H/CH₃)
- Identify the types of strain that are present in a given structure
- Draw chair conformations from bond-line structure of cyclohexane compounds
 - Correctly place axial and equatorial positions
 - Correctly draw cis-/trans-isomers
 - Determine the most stable conformation

Chapter 5: Stereochemistry

Key terms

Stereoisomers	Chirality	Optical activity
Enantiomer	Diastereomer	Meso

Concepts and applications

- Determine the IUPAC name of alkanes including stereochemistry given their structure
- Draw the structure of alkanes with correct stereochemistry given their IUPAC name
- Identify chiral centers/stereocenter in a molecule
- Determine the total number of potential stereoisomers for a compound (2ⁿ)

Chemistry Unit 2 Study Guide

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- Chapter 1: Introduction to Chemistry Unit 2 Study Guide
- Chapter 2: Essential Elements of Chemistry Unit 2 Study Guide
- Chapter 3: Chemistry Unit 2 Study Guide in Everyday Life
- Chapter 4: Chemistry Unit 2 Study Guide in Specific Contexts
- Chapter 5: Conclusion

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Table of Contents Chemistry Unit 2 Study Guide

1. Understanding the eBook Chemistry Unit 2 Study Guide
 - The Rise of Digital Reading Chemistry Unit 2 Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Unit 2 Study 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 Chemistry Unit 2 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Unit 2 Study Guide
 - Personalized Recommendations
 - Chemistry Unit 2 Study Guide User Reviews and Ratings
 - Chemistry Unit 2 Study Guide and Bestseller Lists
5. Accessing Chemistry Unit 2 Study Guide Free and Paid eBooks
 - Chemistry Unit 2 Study Guide Public Domain eBooks
 - Chemistry Unit 2 Study Guide eBook Subscription Services
 - Chemistry Unit 2 Study Guide Budget-Friendly Options
6. Navigating Chemistry Unit 2 Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry Unit 2 Study Guide Compatibility with Devices
 - Chemistry Unit 2 Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry Unit 2 Study Guide
 - Highlighting and Note-Taking Chemistry Unit 2 Study Guide
 - Interactive Elements Chemistry Unit 2 Study Guide
8. Staying Engaged with Chemistry Unit 2 Study Guide

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry Unit 2 Study Guide
9. Balancing eBooks and Physical Books Chemistry Unit 2 Study Guide
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry Unit 2 Study Guide
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chemistry Unit 2 Study Guide
- Setting Reading Goals Chemistry Unit 2 Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chemistry Unit 2 Study Guide
- Fact-Checking eBook Content of Chemistry Unit 2 Study 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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