

FINAL EXAM Summary Sheet

Potential Study Questions

Disclaimer: The following are potential topics for exam questions and sample questions; the exam may or may not contain these questions, and questions not included in this sheet may or may not be on the exam. There also may be typos in this sheet.

ALKANES

Physical Properties

- Hydrocarbons, dispersion forces, non-polar, not miscible w/water, low density
- sp^3 hybridized carbon: C-C, C-H bonds, electronegativity, MO theory & orbitals
- m.p.: odd/even effect
- b.p. C1-4: gases, C5-17: liquids, C18 and up: solids
- linear, branched, cyclics, chirality (incl. optical activity, D/L, R/S, d/l , $+/-$),
- non-equivalent carbons
- isomers: constitutional, conformational isomers, stereo-isomers
- naming: special groups:
 - o Me, Et, Pr, Bu
 - o iPr, iBu, sec-Bu, tBu
 - o neopentyl

Task: Name compounds 1 and 2; identify any chiral centers and # of chemically non-equivalent carbons; where would the compounds absorb in IR in UV-vis? Identify the participating orbitals.



- Rotational/conformational isomers = conformations
 - o eclipsed
 - values: H/H, CH₃/H, CH₃/CH₃
 - o staggered, anti, gauche
 - value: gauche: CH₃/CH₃

Task: draw an energy rotational energy plot (360°) for pentane along C2-C3 bond

- Cycloalkanes:
 - o Spiro, fused, bridged: naming
 - o Heats of combustion: ring strains (angle, torsional, sterics)
 - o Cis/trans
 - o 1,3-diaxial interactions
 - value H/CH₃
 - o Ring-flip for cyclohexane

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Table of Contents Organic Chemistry Study Guide Acs

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

6. Navigating Organic Chemistry Study Guide Acs eBook Formats
 - ePub, PDF, MOBI, and More
 - Organic Chemistry Study Guide Acs Compatibility with Devices
 - Organic Chemistry Study Guide Acs Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Organic Chemistry Study Guide Acs
 - Highlighting and Note-Taking Organic Chemistry Study Guide Acs
 - Interactive Elements Organic Chemistry Study Guide Acs
8. Staying Engaged with Organic Chemistry Study Guide Acs
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organic Chemistry Study Guide Acs
9. Balancing eBooks and Physical Books Organic Chemistry Study Guide Acs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organic Chemistry Study Guide Acs
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Organic Chemistry Study Guide Acs
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Organic Chemistry Study Guide Acs
 - Fact-Checking eBook Content of Organic Chemistry Study Guide Acs
 - 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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