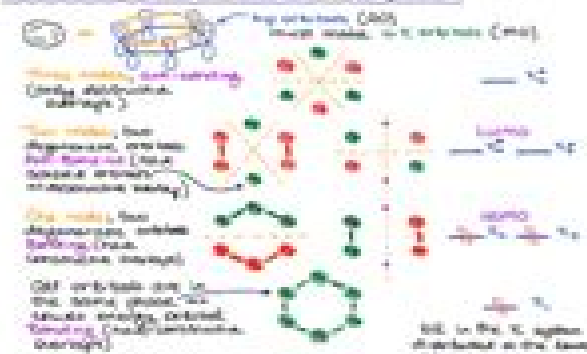


Mechanism of Reaction in Aromatic Compounds



Final Cycle Diagram - easy way to predict substituted aromatic compounds for electrophilic aromatic substitution.

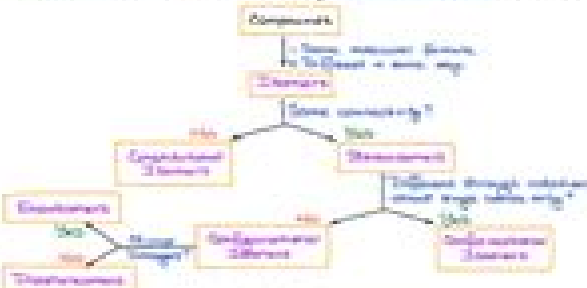
A cyclic compound is considered to be cyclic, with a great deal of resonance.



Due to the resonance, the positive charge is delocalized over five carbons, making the sigma complex more stable.

Summary of Stereochemical Relationships

- Constitutional Isomers** - completely different molecules
- Conformational Isomers** - same molecule that only differ in 3D shape due to free rotation around single bonds
- Enantiomers** - non-superimposable mirror images that share physical & chemical properties in achiral environment
- Diastereomers** - non-superimposable, non-mirror images that have different physical & chemical properties
- Meso Compounds** - non-chiral due to the plane of symmetry, however, have chiral centers



Stereochemical Relationships of Enantiomers

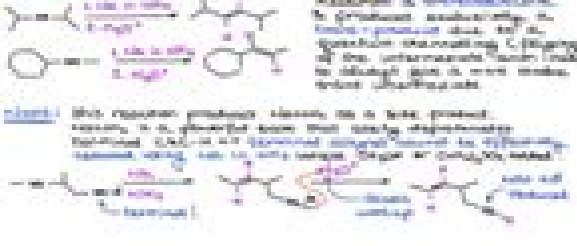
Enantiomers are mirror images, non-superimposable, and share the same physical properties in achiral environment, they are the only type of isomers that are optically active.

Enantiomers are separated using chiral reagents, forming diastereomers, separating them using physical means & converting back into original molecules.

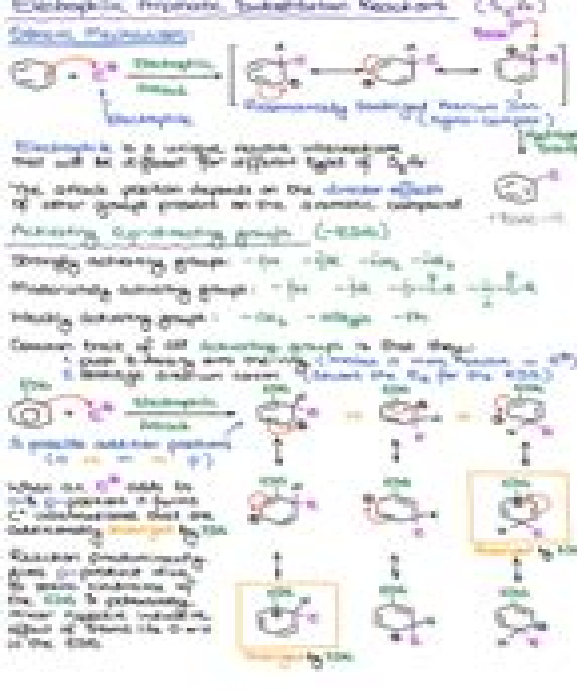
3. Reduction of Aldehydes with Sodium in Liquid Ammonia



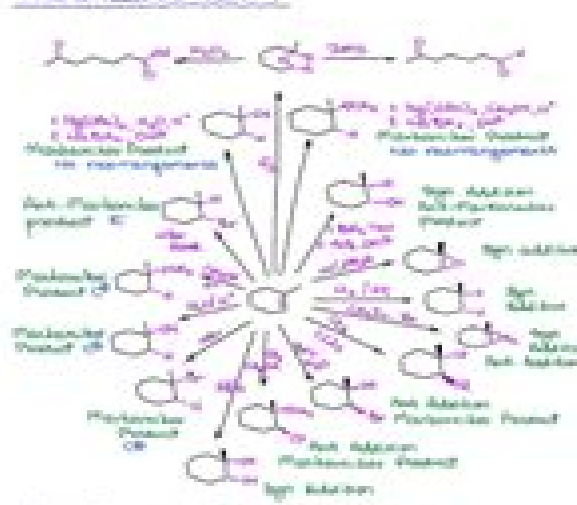
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Electrophilic Aromatic Substitution Reactions (EAS)



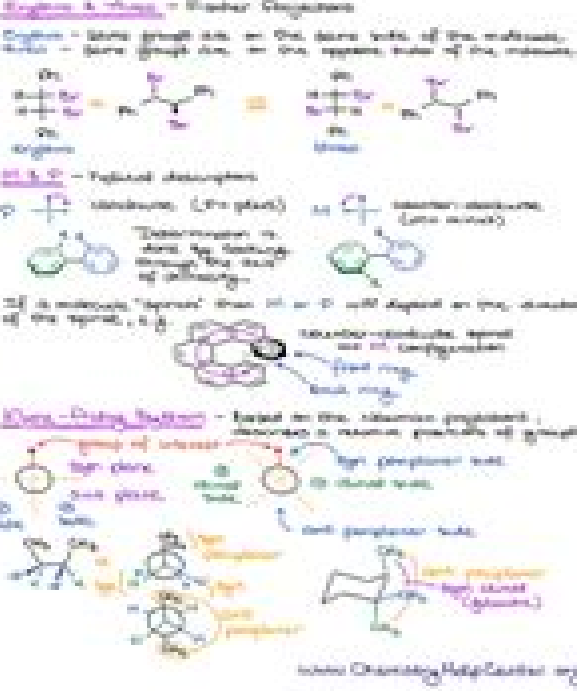
Alkene Reaction Mechanism



Alkene Reaction Mechanism



Alkene Reaction Mechanism



Organic Chemistry Semester 1 Mechanism Study Guide

L. G. Wade



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Table of Contents Organic Chemistry Semester 1 Mechanism Study Guide

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

- Organic Chemistry Semester 1 Mechanism Study Guide eBook Subscription Services
- Organic Chemistry Semester 1 Mechanism Study Guide Budget-Friendly Options
- 6. Navigating Organic Chemistry Semester 1 Mechanism Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Organic Chemistry Semester 1 Mechanism Study Guide Compatibility with Devices
 - Organic Chemistry Semester 1 Mechanism Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Organic Chemistry Semester 1 Mechanism Study Guide
 - Highlighting and Note-Taking Organic Chemistry Semester 1 Mechanism Study Guide
 - Interactive Elements Organic Chemistry Semester 1 Mechanism Study Guide
- 8. Staying Engaged with Organic Chemistry Semester 1 Mechanism Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Organic Chemistry Semester 1 Mechanism Study Guide
- 9. Balancing eBooks and Physical Books Organic Chemistry Semester 1 Mechanism Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Organic Chemistry Semester 1 Mechanism Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Organic Chemistry Semester 1 Mechanism Study Guide
 - Setting Reading Goals Organic Chemistry Semester 1 Mechanism Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Organic Chemistry Semester 1 Mechanism Study Guide
 - Fact-Checking eBook Content of Organic Chemistry Semester 1 Mechanism 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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