

Exam 2 study guide

Chap 16

F-C Alkylation



- ① rings w/ deactivating substituents or acidic substituents don't react
- ② only works for R = Me, Et, 2°, 3°
- ③ doesn't work for R = 1°, Ph, Vinyl

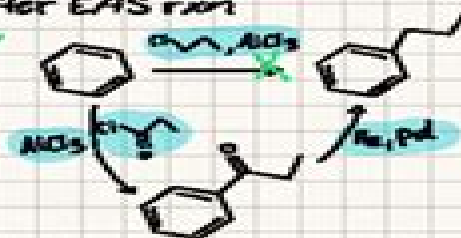
F-C Acylation



- ① rings w/ deactivating substituents or acidic substituents don't react

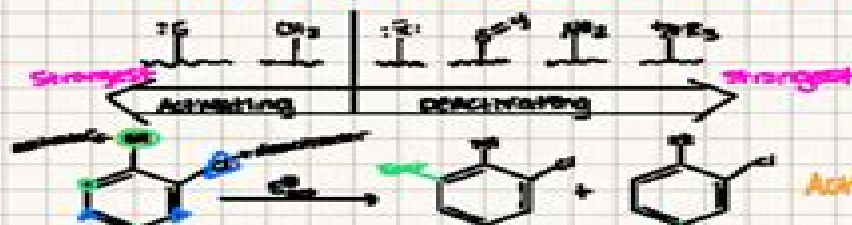
Getting Around the limitations

- Reduces C=O to CH₂ After EAS rxn



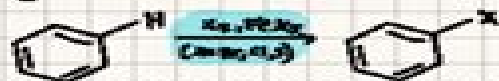
If directing groups are in different positions:

- Activator wins over deactivator
- Stronger of the 2 activators win
- Stronger of the 2 deactivators win



Activator wins

Halogenation:



Sulfonation:



Nitration



Substituent Effects in Electrophilic Substitution

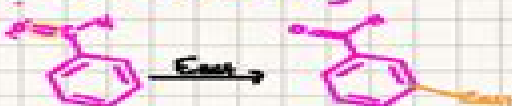
Example 1:

- Lone pairs on ring
- activating
- o + p directing



Example 2:

- Pi bond next to ring
- Deactivating
- Meta directing



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Robert J. Ouellette, J. David Rawn



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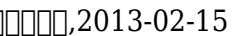
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Table of Contents Ochem Study Guide

1. Understanding the eBook Ochem Study Guide
 - The Rise of Digital Reading Ochem Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ochem 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 Ochem Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ochem Study Guide
 - Personalized Recommendations
 - Ochem Study Guide User Reviews and Ratings
 - Ochem Study Guide and Bestseller Lists
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 - Interactive Elements Ochem Study Guide
- 8. Staying Engaged with Ochem Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ochem Study Guide
- 9. Balancing eBooks and Physical Books Ochem Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ochem Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ochem Study Guide
 - Setting Reading Goals Ochem Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ochem Study Guide
 - Fact-Checking eBook Content of Ochem 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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