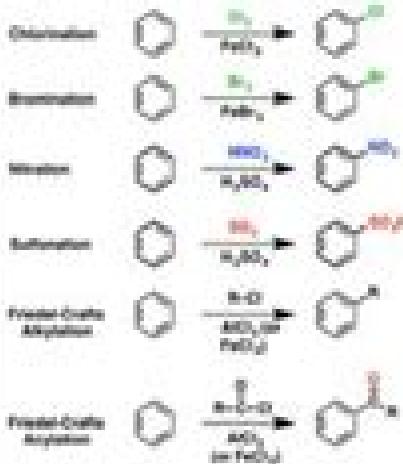
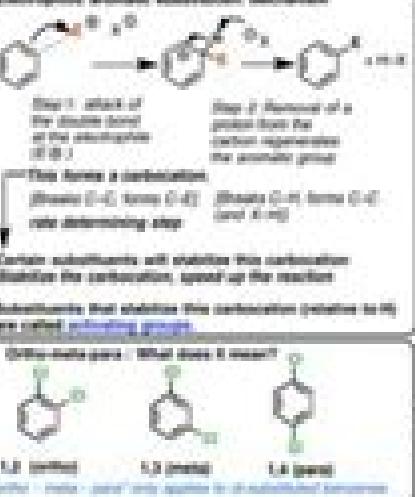


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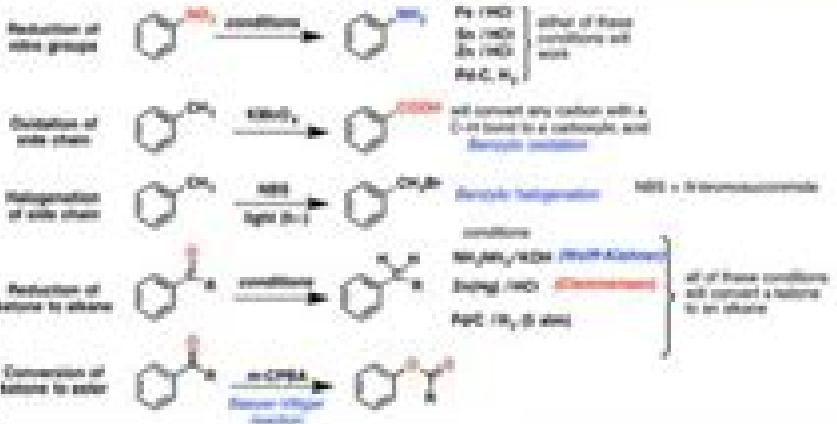
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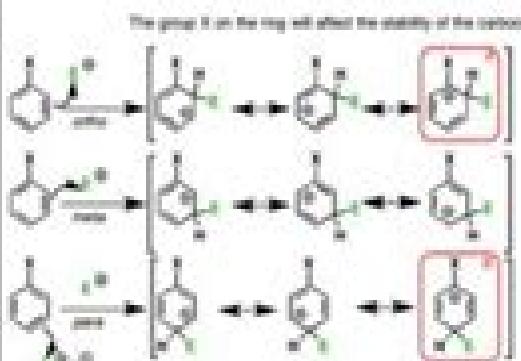
Electrophilic aromatic substitution mechanism



Transformations of aromatic functional groups



What if there's already a group on the ring?



Activating vs. Deactivating - What does it mean?

An **activating group** is a group that causes electrophilic aromatic substitution to be **more** reaction **rate**

A **deactivating group** is a group that causes electrophilic aromatic substitution to be **less** reaction **rate**



Question 1: Nitro is para, what product dominates?



Resonance forms A and B are EAS

If R has an electron pair, these resonance forms will be stabilized through formation of a double bond



Any group such as CH_3 , CH_2CH_3 , etc. are also **ortho/para directors**. Why? Because the partial charge

The partial negative charge on the carbon will stabilize an adjacent positive charge

Similarly, if there is a partial positive charge on the atom adjacent to the ring, this will stabilize resonance forms A and B



This is why the following groups are **meta** directors. Although "ortho/para director" is more appropriate



Strongly activating σ -o Moderately activating σ -p Deactivating σ -d



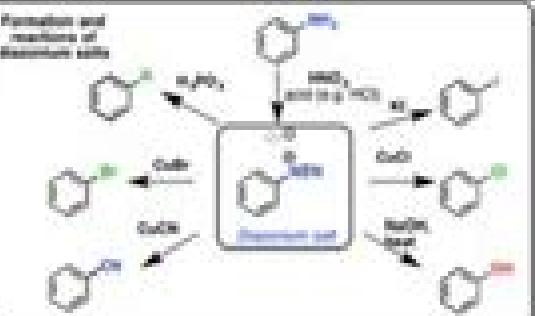
Activating, Meta, Slightly?

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Question 2: When two groups "share" the same carbon, what product dominates?



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Arthur Winter, PhD

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Table of Contents Organic Chemistry Cheat Sheet Reactions

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

- ePub, PDF, MOBI, and More
- Organic Chemistry Cheat Sheet Reactions Compatibility with Devices
- Organic Chemistry Cheat Sheet Reactions Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Organic Chemistry Cheat Sheet Reactions
- Highlighting and Note-Taking Organic Chemistry Cheat Sheet Reactions
- Interactive Elements Organic Chemistry Cheat Sheet Reactions

8. Staying Engaged with Organic Chemistry Cheat Sheet Reactions

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Organic Chemistry Cheat Sheet Reactions

9. Balancing eBooks and Physical Books Organic Chemistry Cheat Sheet Reactions

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Organic Chemistry Cheat Sheet Reactions

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Organic Chemistry Cheat Sheet Reactions

- Setting Reading Goals Organic Chemistry Cheat Sheet Reactions
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Organic Chemistry Cheat Sheet Reactions

- Fact-Checking eBook Content of Organic Chemistry Cheat Sheet Reactions
- 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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