

# Exam 2 study guide

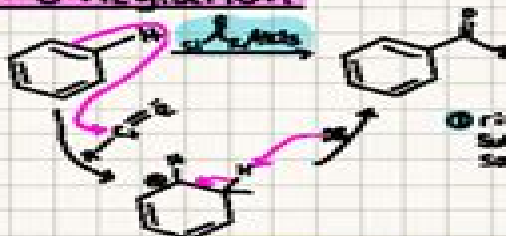
## Chap 16

### 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

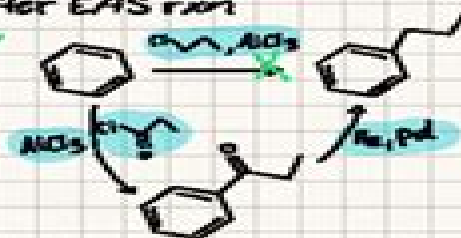
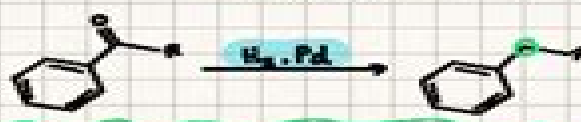
### F-C Acylation



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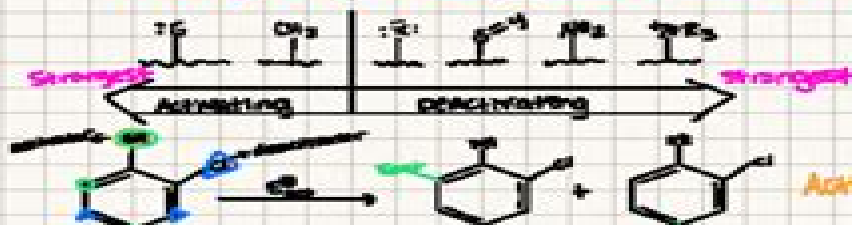
### Getting Around the limitations

- Reduces C=O to CH<sub>2</sub> 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

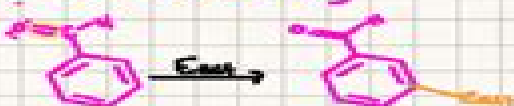
#### Example 1:

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



#### Example 2:

- Pi bond next to ring
- Deactivating
- Meta directing



# Ochem Study Guide

**David R. Klein, Laurie S. Starkey**



## Ochem Study Guide:

*Organic Chemistry Study Guide with Solutions Manual* Neil E. Schore, 2007 The guide includes chapter introductions that highlight new material chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer *Organic Chemistry, Student Study Guide and Solutions Manual* David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems *Organic Chemistry* T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016

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methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry

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**Organic Chemistry Study Guide and Solutions Manual** Marc Loudon, Jim Parise, Lisa Bonner, 2024-08-09 The Study Guide and Solutions Manual offers several study tools for students Study Guide Links are brief supplements to text material and provide hints for study shortcuts approaches to problem solving or additional explanations of topics that typically cause difficulty Further Explorations are short discussions that provide additional depth on content in the text Reaction Reviews present the reactions in the chapter in detailed outline form This summary consolidates the reactions of the chapter in one place and presents not only the reactions themselves but also the essential features of their mechanisms and stereochemistry for cases in which these issues are discussed in the text Solutions are provided for all of the over 1600 problems in the text Many include worked out examples in which not only the answer is given but also the detailed approach to the solution is discussed

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**Fundamentals** Speedy Publishing,2014-07-03 If a student does not have a strong background chemistry and biology or if their knowledge is a little rusty and could use some refreshing a fundamentals guide to organic chemistry is an excellent way to get back into the swing of things A guide will go over the different types of bonds atomic structure and cover the important topics associated with biology that the student will need to understand before entering an organic chemistry class Furthermore study guides are much cheaper than a tutor taking another course or a textbook The guide is succinct too and will not cover unnecessary or ancillary topics that will not be relevant to an organic chemistry course **Study Questions**

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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
5. Accessing Ochem Study Guide Free and Paid eBooks
  - Ochem Study Guide Public Domain eBooks
  - Ochem Study Guide eBook Subscription Services
  - Ochem Study Guide Budget-Friendly Options

6. Navigating Ochem Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Ochem Study Guide Compatibility with Devices
  - Ochem Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ochem Study Guide
  - Highlighting and Note-Taking Ochem Study Guide
  - 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

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- Interactive and Gamified eBooks

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