

# 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

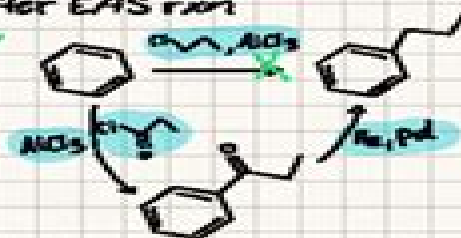
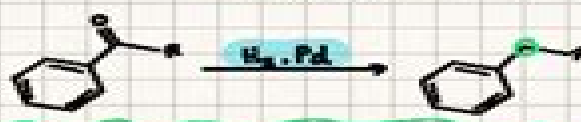
### F-C Acylation



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

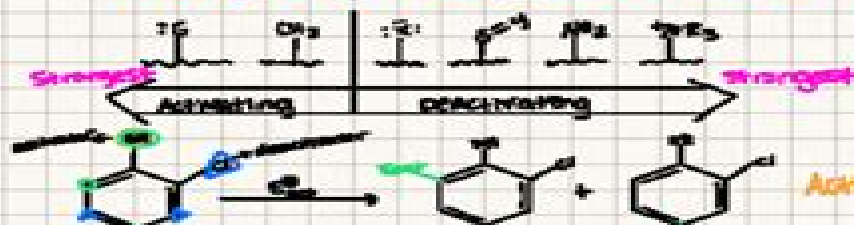
### Getting Around the limitations

- Reduces C=O to 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

**Speedy Publishing**

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**Study Guide to Organic Chemistry, 4th Ed** Robert Thornton Morrison, Robert Neilson Boyd, 1983



**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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*Study Guide and Solutions Manual for Essential Organic Chemistry* Paula Yurkanis Bruice, 2015-03-04 This Study Guide Solution Manual contains learning objectives chapter summaries and outlines as well as examples self tests and concept questions as well as

complete step by step solutions to selected problems      **Study Guide and Solutions Manual for Organic Chemistry**

**Digital Update** K. Peter C. Vollhardt, Neil E. Schore, 2024-03-25 Written by Organic Chemistry coauthor Neil Schore this invaluable manual includes chapter introductions that highlight new materials 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 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 in Elementary Organic Chemistry** Alexander Lowy, 1926

**Study Guide and Solutions Book** Harold Hart, Robert D. Schuetz, 1978-01-01       , 2013-02-15

*Organic Chemistry, Study Guide* T. W. Graham Solomons, 1988-03-08 This class tested text reflects the refinements made in previous editions while expanding updating and adding new information on many important topics Adopting a bio organic emphasis it introduces functional groups early in the text providing an overview of and preparation for subsequent discussions This edition includes increased coverage of Carbon 13 spectra an expanded treatment of conformational effects of molecules with two sections covering basic geometries of molecules and an in depth overview of the subject plus new material on transition metal chemistry and carbohydrate metabolism Worked out examples have been added to chapters on synthesis and end of chapter problems have been expanded by more than 200 The text also includes exceptional full color graphics illustrating conformational effects and general stereochemical properties of organic substances      **Study Guide to Accompany Organic Chemistry** Francis Carey, 1987

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