

Exam 2 study guide

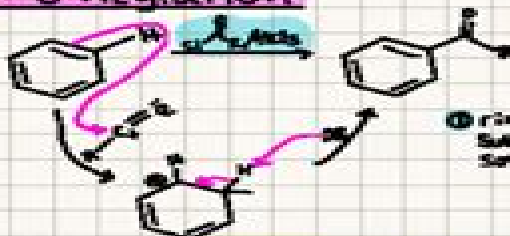
Chap 16

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

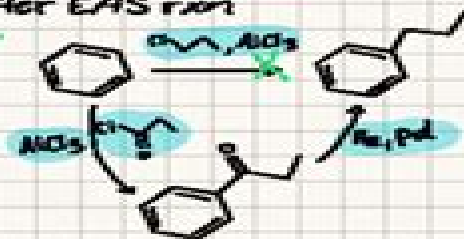
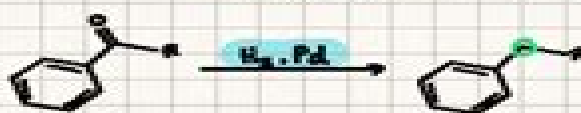
F-C Acylation



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

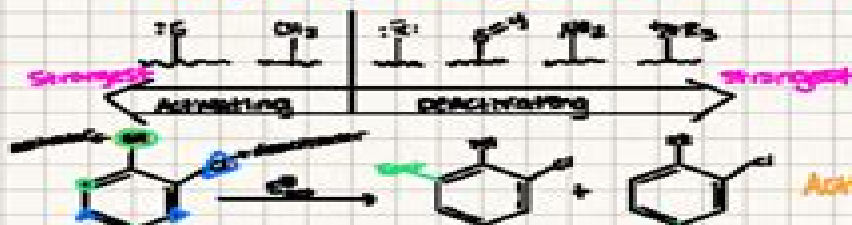
Getting Around the limitations

- Reduces C=O to CH₂ After EAS rxn



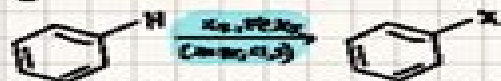
If directing groups are in different positions:

- 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

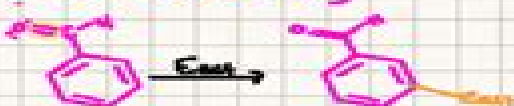
Example 1:

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



Example 2:

- Pi bond next to ring
- Deactivating
- Meta directing



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Raffaella Di Napoli



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Study Guide and Solutions Manual Neil E. Schore, 2002-08-02

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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

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