

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

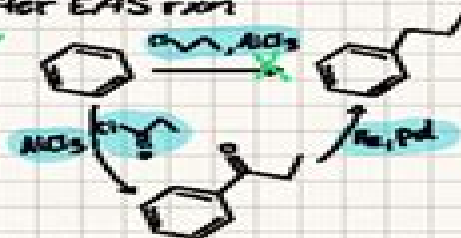
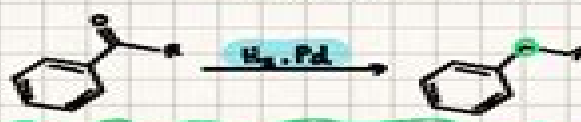
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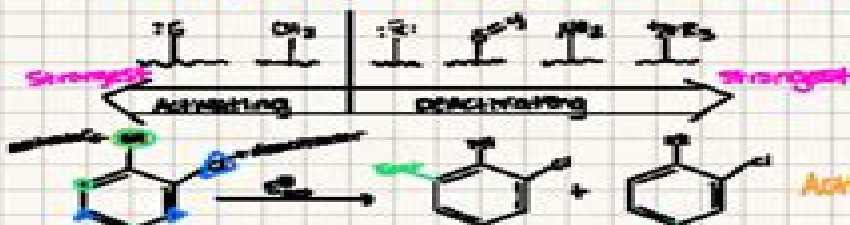
Getting Around the limitations

- Reduces C=O to CH₂ After EAS rxn



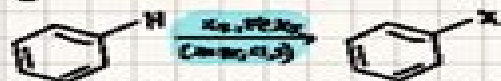
If directing groups are in different positions:

- 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



Ochem Study Guide

David R. Klein, Laurie S. Starkey



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