

# 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

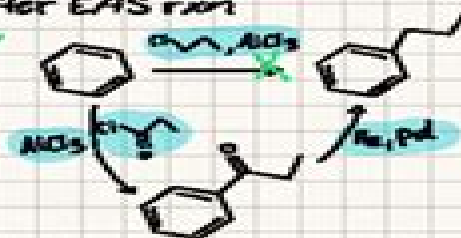
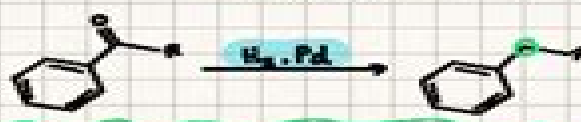
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- ① rings w/ deactivating substituents or acidic substituents don't react

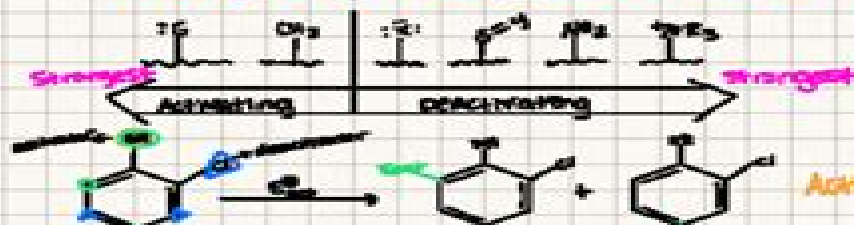
### Getting Around the limitations

- 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

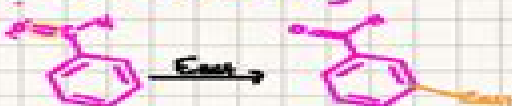
#### Example 1:

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



#### Example 2:

- Pi bond next to ring
- Deactivating
- Meta directing



# Ochem Study Guide

**David R. Klein**



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