Course Introduction

Electrophilic Aromatic Substitution (EAS)

1/18/2023

Syllabus & Course Resources

Syllabus link

"Living" course calendar link

Office hours (in Park 169): Wednesday, 11:00am-12:30pm

Friday, 11:00am-1:00pm

or by appointment (email me)

TA hours: TBD (will be shared ASAP)

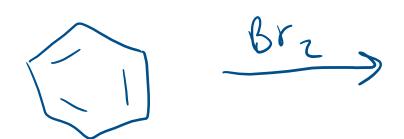
All of this is on Moodle!

Tips for success

- Know how to do every assigned homework problem.
 - Unassigned problems are good extra practice (i.e. #54 is assigned, #55 is most likely helpful too).
 - "Second Language" textbook companion also has extra practice problems.
- Use all the resources at your disposal.
 - Office hours, TA's, textbook, email/talk to me!
- Study with others.
- Practice consistently & effectively.
 - "Retrieval Practice" versus re-reading/reviewing
- Come to class prepared.
- Be active in class.

Electrophilic Aromatic Substitution (EAS)

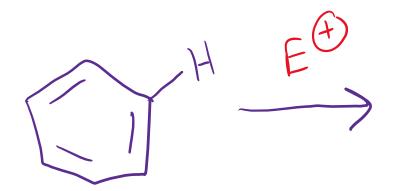






Text: 18.1

Electrophilic Aromatic Substitution (EAS): Mechanism





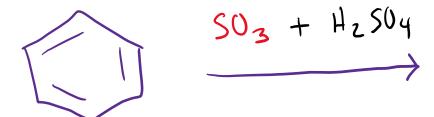
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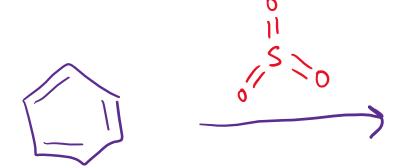


Halogenation of Benzene

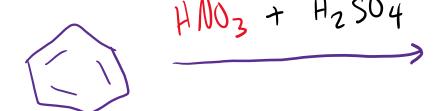
More generally:

$$\frac{\chi_2}{M\chi_3} + H\chi + M\chi_3$$





Nitration of Benzene



Nitration of Benzene: mechanism - generating +NO₂ electrophile

