Chapter 12 - Reactions of Benzene - EAS

- 12.1 Introduction to benzene vs. alkenes
- 12.2 Mechanistic principles of *Electrophilic Aromatic Subsitution*
- 12.3 Nitration of benzene, reduction to aminobenzenes
- 12.4 Sulfonation of benzene
- 12.5 Halogenation of benzene
- 12.6 Friedel-Crafts alkylation of benzene
- 12.7 Friedel-Crafts alkylation of benzene
- 12.8 Alkylbenzenes via acylation then reduction
- 12.9 Rate and regioselectivity in EAS
- 12.10 Nitration of toluene rate and regioselectivity
- 12.11 Nitration of CF₃-benzene rate and regioselectivity
- 12.12 Substituent effects in EAS: Activating Substituents
- 12.13 Substituent effects in EAS: Strongly Deactivating Substituents
- 12.14 Substituent effects in EAS: Halogens
- 12.15 Multiple substituent effects in EAS
- 12.16 Regioselective synthesis of disubstituted aromatic compounds
- 12.17 Substitution in Naphthalene
- 12.18 Substitution in heterocyclic aromatic compounds





































