

CHEM 202
Mini-Exam #4 – Study Guide

Chapter 7 (7.1-7.14)

- Know and understand the basic structure of benzene and why it behaves differently than alkenes.
- Be able to recognize aromatic compounds.
- Be able to name benzene derivatives.
- Understand Electrophilic Aromatic Substitution
 - Know the mechanism
 - Be able to write the products for the five EAS reactions discussed in class
 - Understand which groups are ortho/para directors and which are meta directors
 - Understand which groups are activators and which are deactivators
- Be able to do a short synthesis of disubstituted benzenes

Chapter 8 (Sections 8.1-8.6, 8.9-8.10)

- Define different kinds of isomers
- Be able to recognize chiral and achiral objects and molecules
- Be able to recognizing asymmetric centers and figure out how many possible stereoisomers there are for a given compound.
- Be able to assign R and S configurations
- Be able to differentiate enantiomers and diastereomers
- Understand and be able to recognize what a meso compound is.