

CHE 173

Winter, 2005

Specific Objectives for Quiz 5

1. Be able to tell if a given heterocyclic compound is aromatic.
2. Understand the effects that aromaticity has on the chemistry of heterocyclic aromatic compounds.
3. Understand the general mechanism for electrophilic aromatic substitution reactions.
4. Be able to predict the product(s) and show the mechanisms for the following types of electrophilic aromatic substitution reactions: nitration, sulfonation, halogenation, Friedel-Crafts alkylation, Friedel-Crafts acylation.
5. Be able to apply the above reactions (as well as other reactions you've already learned) in multi-step synthesis problems