

Topics for Test 3

10.7 A and B Oxidation of alcohols to aldehydes, ketones, and carboxylic acids by Cr(VI)
predict products

10.9 Chemical equivalence: homotopic, enantiotopic, and diastereotopic groups and atoms

11.1 Basicity of ethers

11.4 Cleavage of ethers using HCl, HBr, and HI (S_N1 vs S_N2 reactions)

11.5 Epoxides

enhanced reactivity as compared to unstrained ethers

reactions with acids (S_N1 , S_N1 -like reactions)

reactions with powerful nucleophiles (S_N2 reactions)

15.1A conjugated π systems

recognize conjugated and unconjugated systems

15.3 Diels-Alder reactions

predict products

s-trans vs s-cis

stereochem of dienophile side of reaction

Sample questions for Diels-Alder reactions

Test 4 from fall 2008 questions 5 and 6

Test 4 from fall 2007 questions 4 and 8

Test 4 from fall 2005 questions 7 and 8