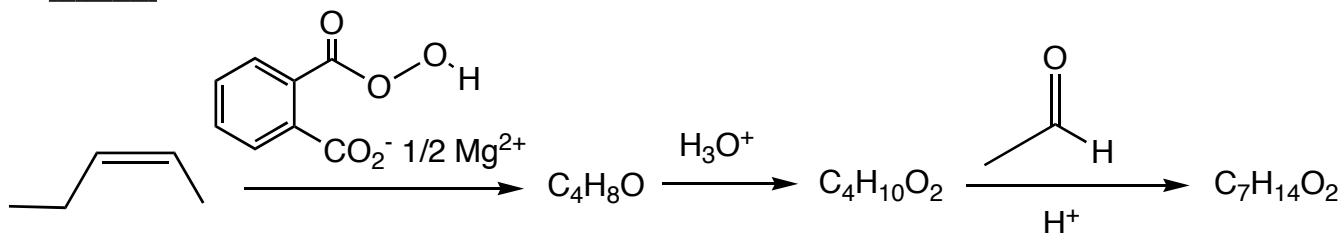


Chemistry 3371, 3rd Midterm Exam

Name _____ Recitation Day _____ April 14, 2005

1. (13 points) Give structures for the synthetic intermediates and final product, consistent with the chemistry and molecular formulas. Clearly show stereochemistry for all the stereoisomers formed.



$\text{C}_4\text{H}_8\text{O}$

$\text{C}_4\text{H}_{10}\text{O}_2$

$\text{C}_6\text{H}_{12}\text{O}_2$

2. (12 points) Give a structure consistent with each of the following names.

a) benzyltrimethylammonium hydroxide

b) diethyl maleate

c) succinic acid

d) methyl 3-oxopentanoate