



Course Name: CHEM 3013: Organic Chemistry Professor/Teacher: Dr. Bolliger

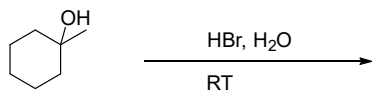
Title of Homework: Homework 4

Name: _____ English Name: _____

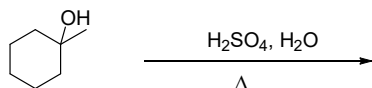
SWJTU ID: _____ OSU ID: _____ Date: Tuesday, 18 May 2021

Question 1 (6 points)

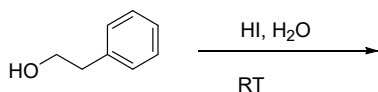
What are the major products of these reactions? Draw a detailed mechanism for their formation.



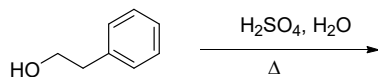
Mechanism:



Mechanism:



Mechanism:

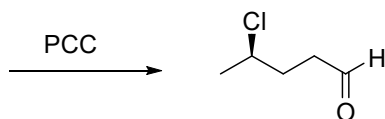
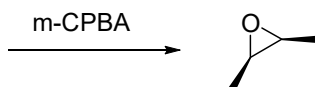
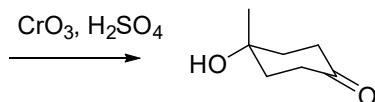
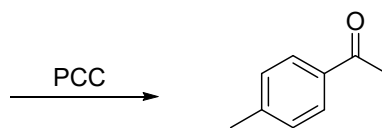


Mechanism:



Question 2 (2 points)

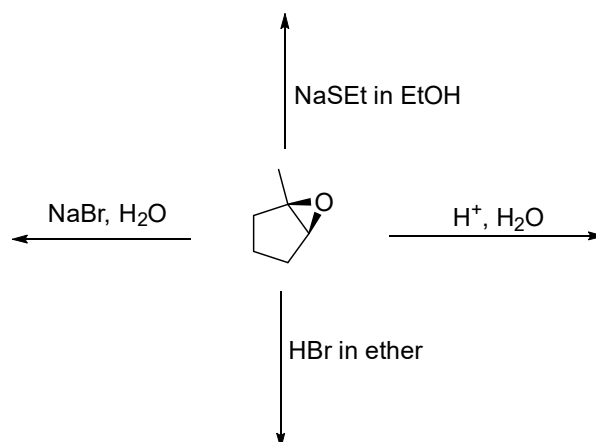
Suggest starting materials for these reactions





Question 3 (2 points)

Draw the products of these reactions. Pay attention to stereochemistry.





Question 4 (5 points)

Complete the following reaction scheme. Pay attention to stereochemistry. If more than one stereoisomer is formed in a reaction, please show both.

