

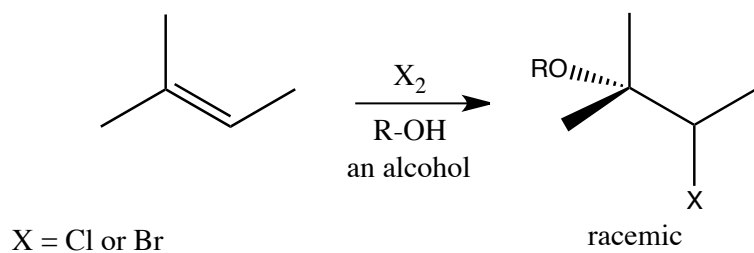
Chem 343 – Organic Reactions

Chapter 11

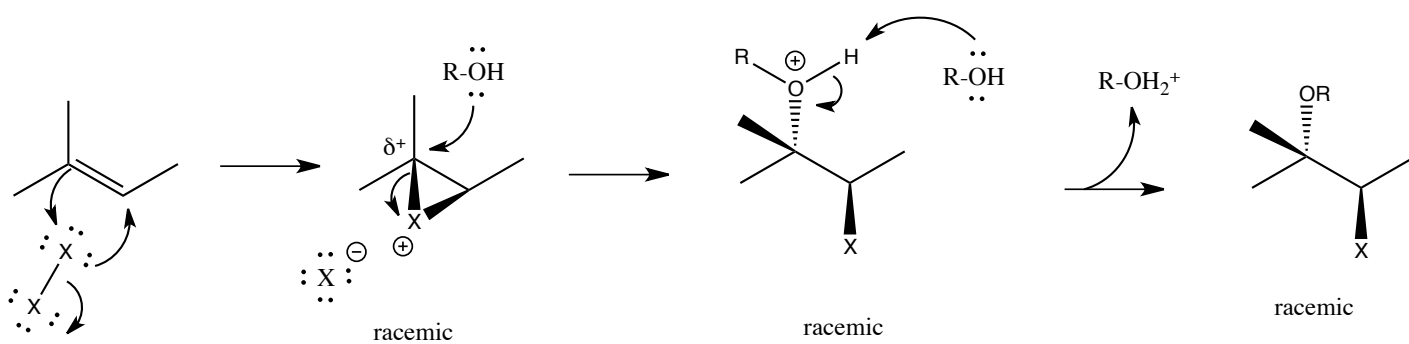
Prepared by José Laboy, MS

<http://www.chem.wisc.edu/areas/clc> (Resource page)

Alkene Reactions #5: Haloether Synthesis



Mechanism



The process is an *anti* stereospecific addition. The three-membered ring halonium has a greater positive charge on the most substituted carbon atom therefore the nucleophile, in this case the alcohol solvent, attacks the side which has a greater positive charge. This works quite well with small chain alcohols. The reaction is also regioselective. The result is that the major product is a Markovnikov addition.