

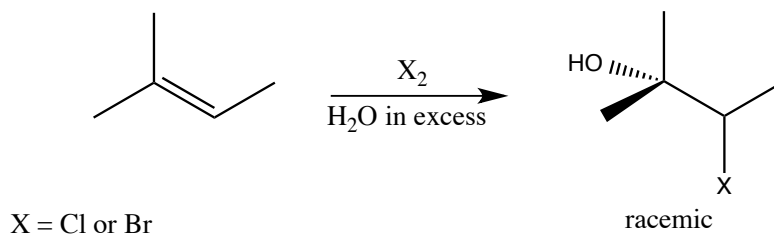
Chem 343 – Organic Reactions

Chapter 5 & 7

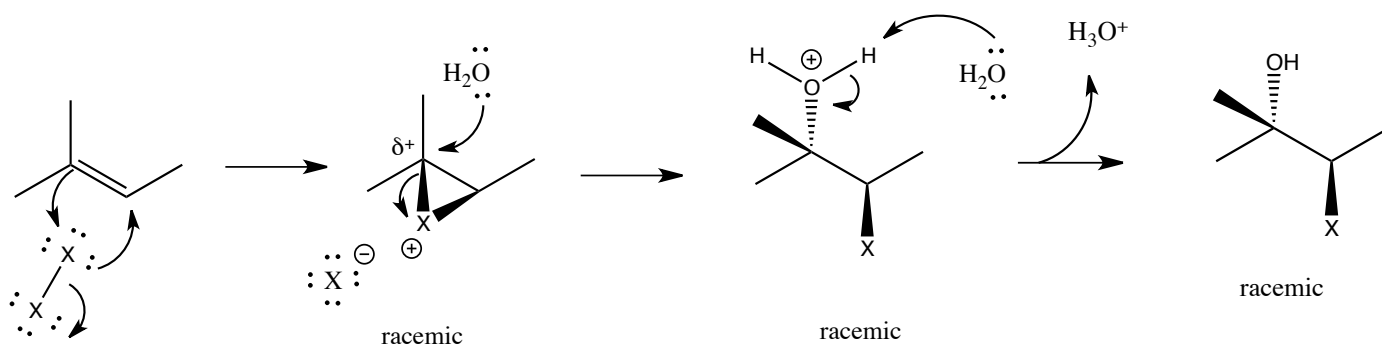
Prepared by José Laboy, MS

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

Alkene Reactions #4: Halohydrin 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 water in excess, attacks the side, which has a greater positive charge. Consequently the regiochemistry results in a Markovnikov addition.