

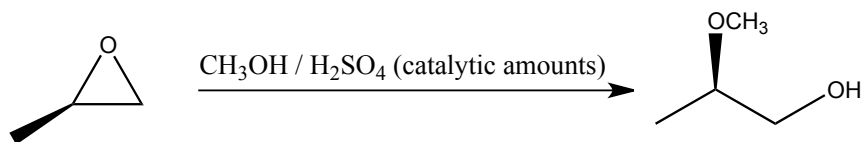
## Chem 343 – Organic Reactions

### Chapter 11

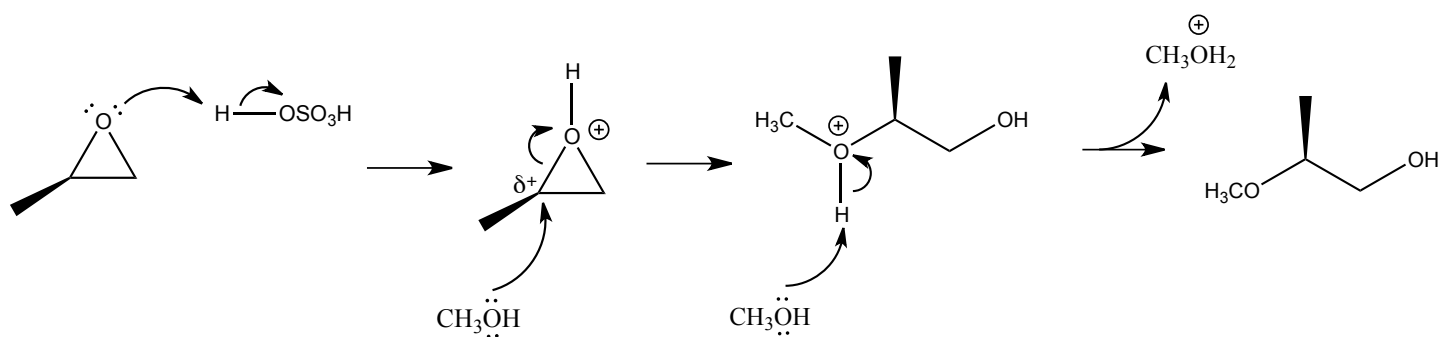
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<http://www.chem.wisc.edu/areas/clc> (Resource page)

#### Synthesis and Reactions of Epoxides #3: Acid-Catalyzed Nucleophilic Reaction of an Epoxide



#### Mechanism



After the epoxide is protonated by the acid the carbon-oxygen bonds become weak. The most substituted carbon atom of the epoxide bears a partial positive charge. The protic solvent then attacks the “carbocation-like” carbon atom through an anti-addition reaction. The reaction is stereospecific.