

Chem 345 – Organic Reactions

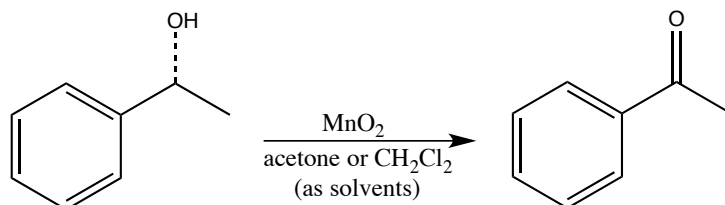
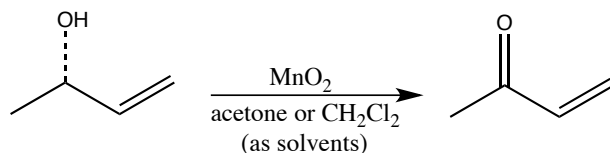
Chapter 17

Prepared by José Laboy, MS

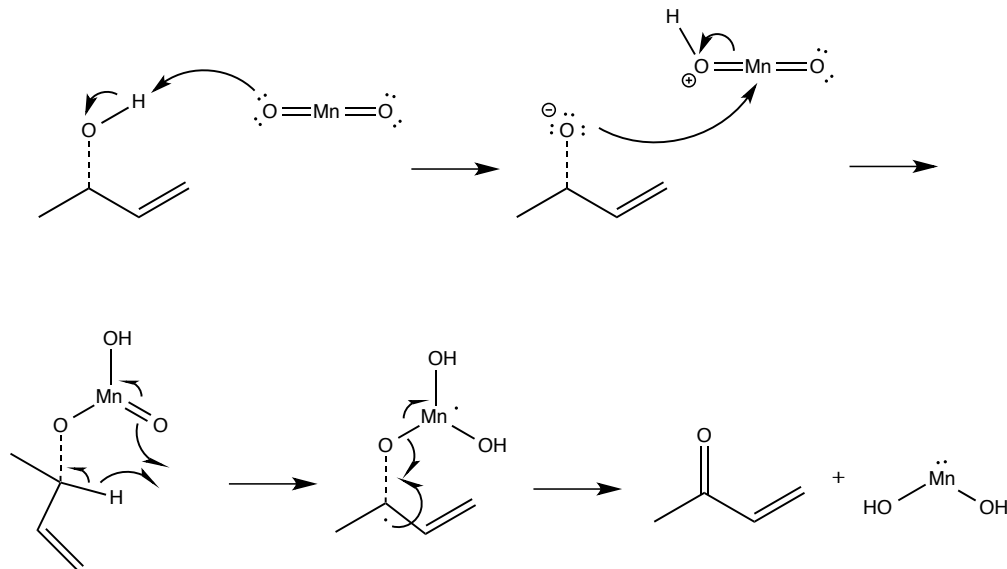
<http://www.chem.wisc.edu/areas/clc> (Resource page)

Benzylic and Allylic Reactions #6: Oxidation Reaction of Allylic and Benzylic Alcohols

Reactions:



Mechanism:



Allylic and benzylic alcohol can be readily oxidized under mild conditions. Manganese dioxide, MnO₂, is a mild oxidizing agent that selectively oxidizes primary or secondary allylic and benzylic alcohols. Primary alcohols yield aldehydes and secondary alcohols form ketones.

The mechanism is quite complex requiring some radical intermediate formation.