

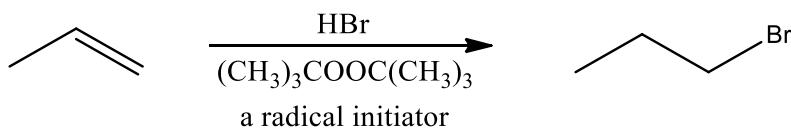
Chem 343 – Organic Reactions

Chapter 5

Prepared by José Laboy, MS

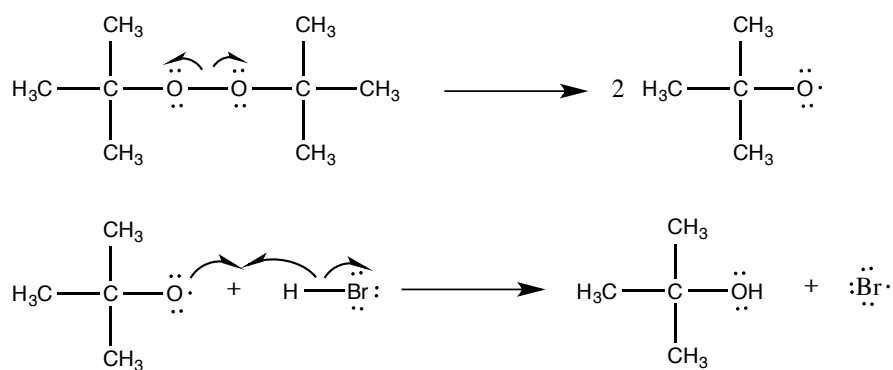
<http://www.chem.wisc.edu/areas/clc> (Resource page)

Addition of HBr to Alkenes in the Presence of Peroxides

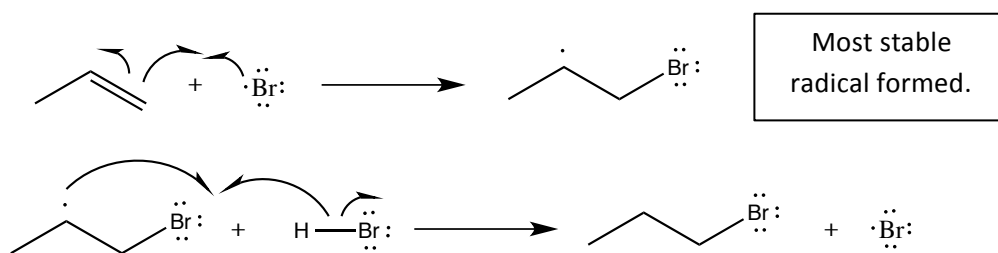


Mechanism

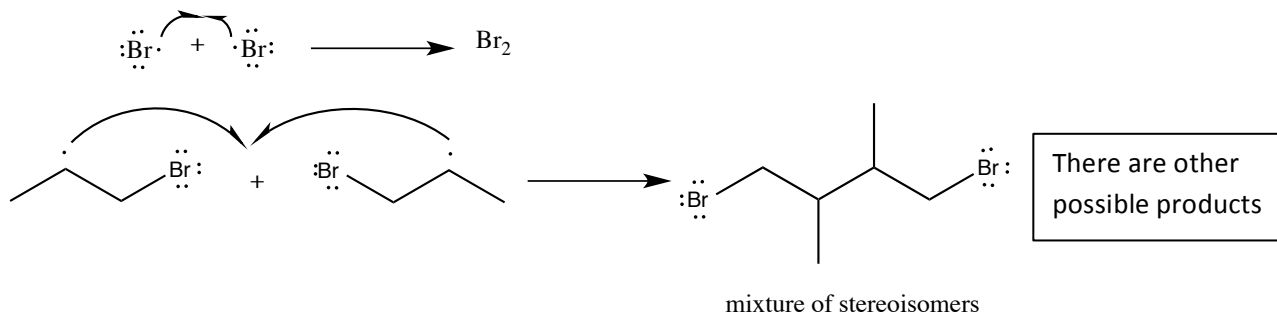
Initiation



Propagation



Termination



Regioselectivity: Anti-Markovnikov addition.

Radical Stability:  $3^\circ > 2^\circ > 1^\circ$

Only HBr. Does not have to be a peroxide, a radical initiator like azaisobutyronitrile (AIBN) works fine see below.

