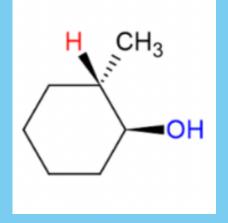
HYDROBORATION OXIDATION OF ALKENES

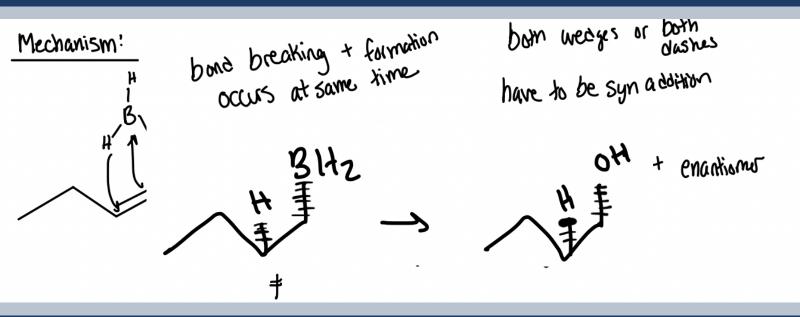
Organic Chemistry 1

KEY FEATURES

- 1. Anti MKV (Hydrogen to more sub and BH2 to least sub.)
- 2.No carbocation formation
- 3. No rearrangements
- 4. Stereospecific syn addition (cis stereochemistry)



from chemistrytalk.org

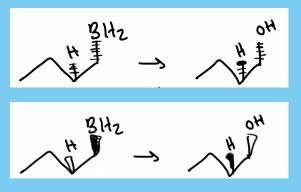


A BIT ABOUT THE

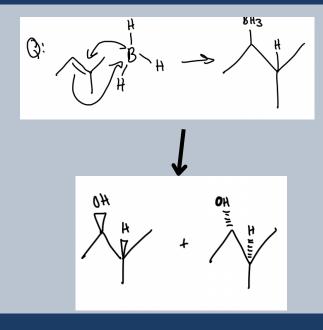
so whatever the stereo/regio of the BH2 is, the OH will have that after oxidation

OXIDATION MECHANISM

For Orgo 1 the oxidation mechanism is not required, but there is merit in understanding what the mechanism tells us... it replaces BH2 with OH- and retains stereochemistry + regiochemistry



This reaction still has cis stereochemsitry with both wedges...the wedges just aren't filled in



HOW TO PREDICT PRODUCTS

Remove the double bond, place the hydrogen on the most substituted spot and the OH on the less substituted , make sure to exhibit cis stereochem (both wedges or both dashes)

Giavanna Spagnolo