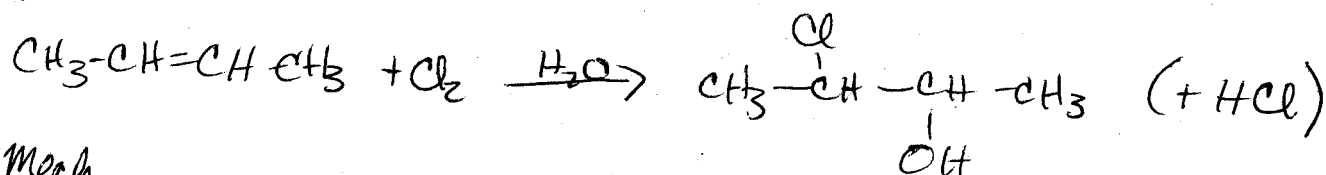


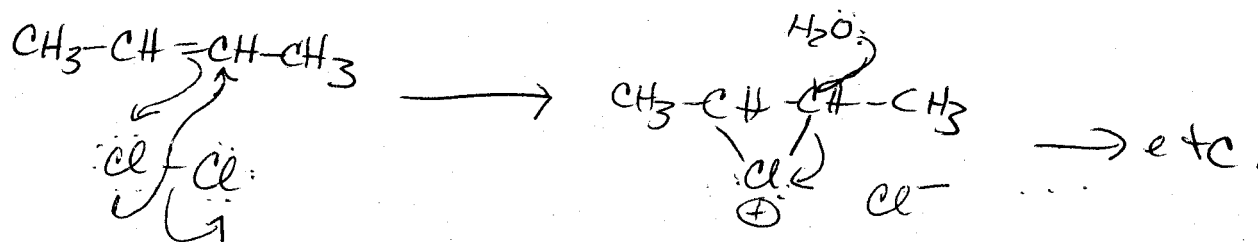
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Recall: Halohydrin formation

Ex:

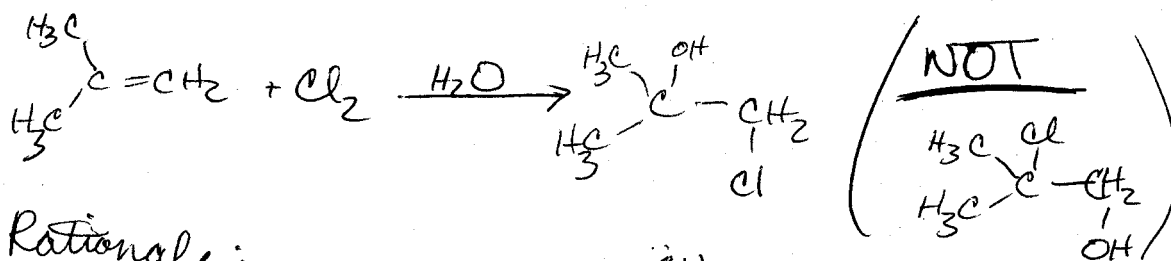


Mech.

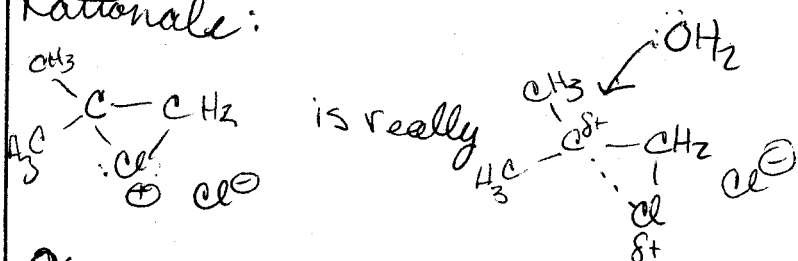


Unsymmetrical alkene - regioselectivity

Ex:

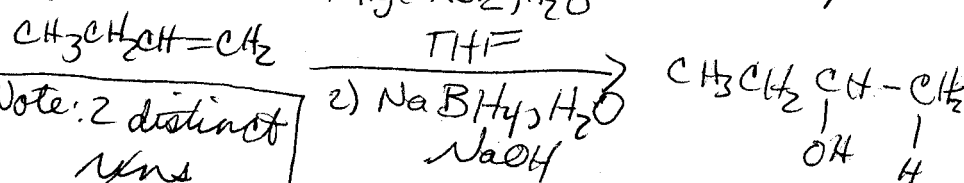


Rationale:



Oxymercuration-reduction of alkenes to form alcohols (Markovnikov)

Ex:



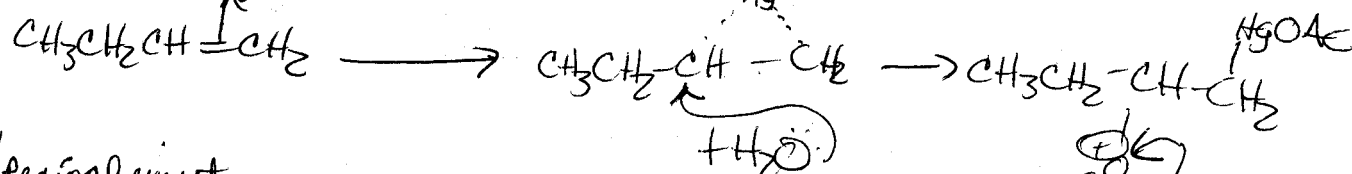
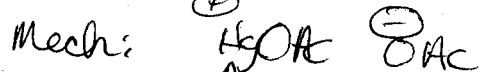
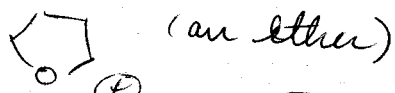
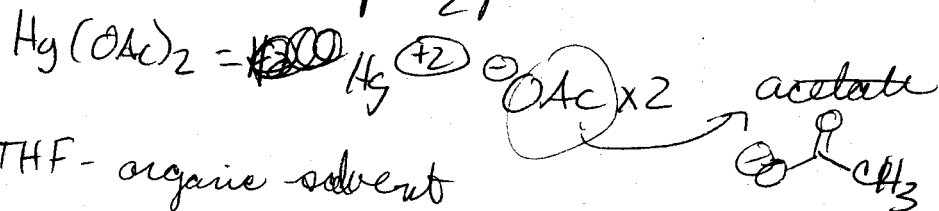
Note: 2 distinct rxns

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Note: Compressed designation of a multi-step rxn sequence. (p. 186)

Focus on 1st step ("oxymercuration"):

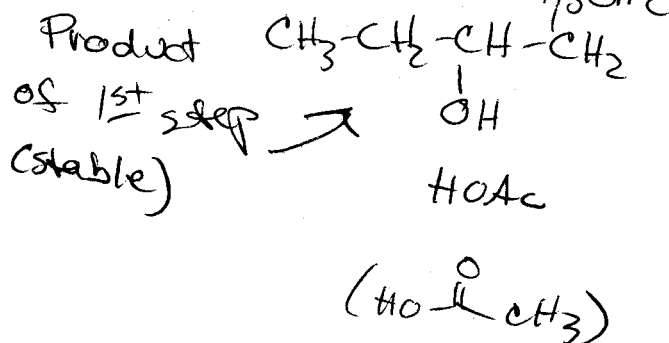


(regiochemistry, see halokeydine Mech)

Note: C-Hg bond -

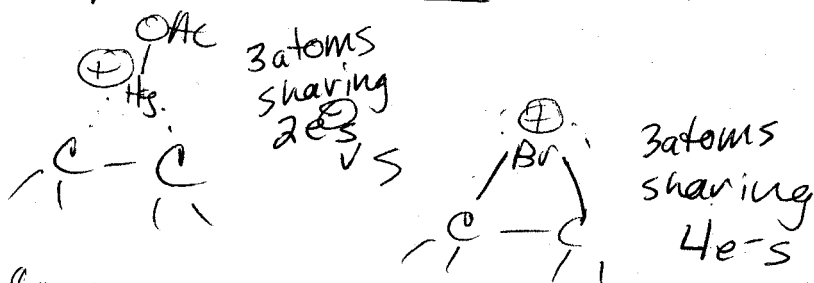
example of an "organometallic" compound

* Imppt idea



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Compare & contrast:



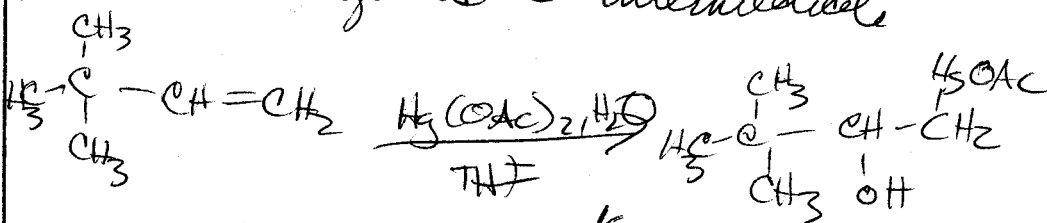
"mercurinium ion"

Bromonium ion

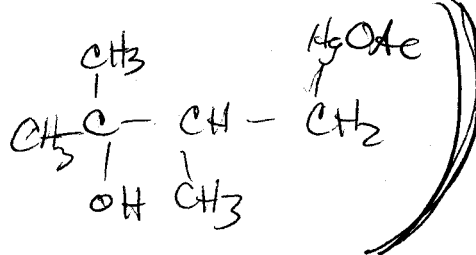
Note: Mercurinium intermediate is a carbocation

Empirical observation:

- evidence against C⁺ intermediate



NOT:



or No

