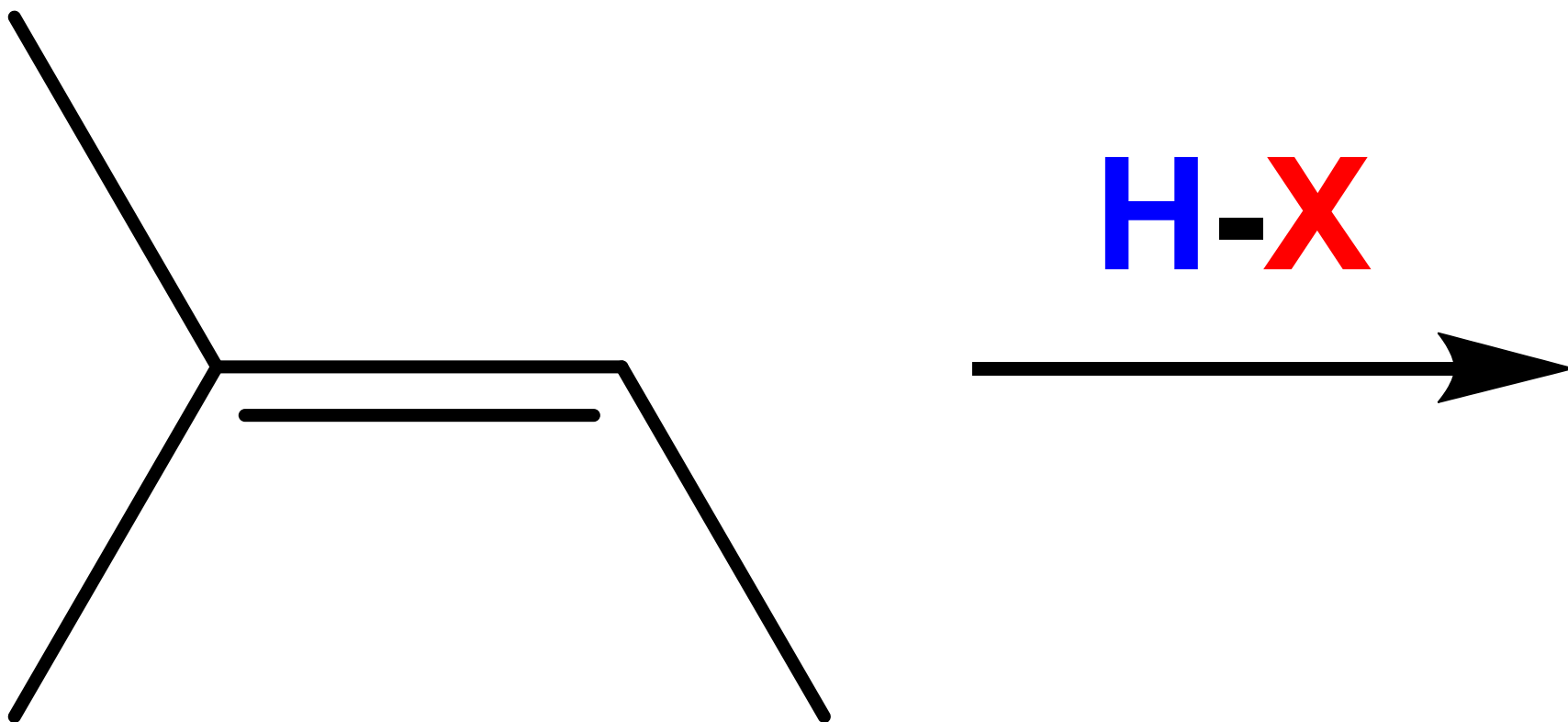
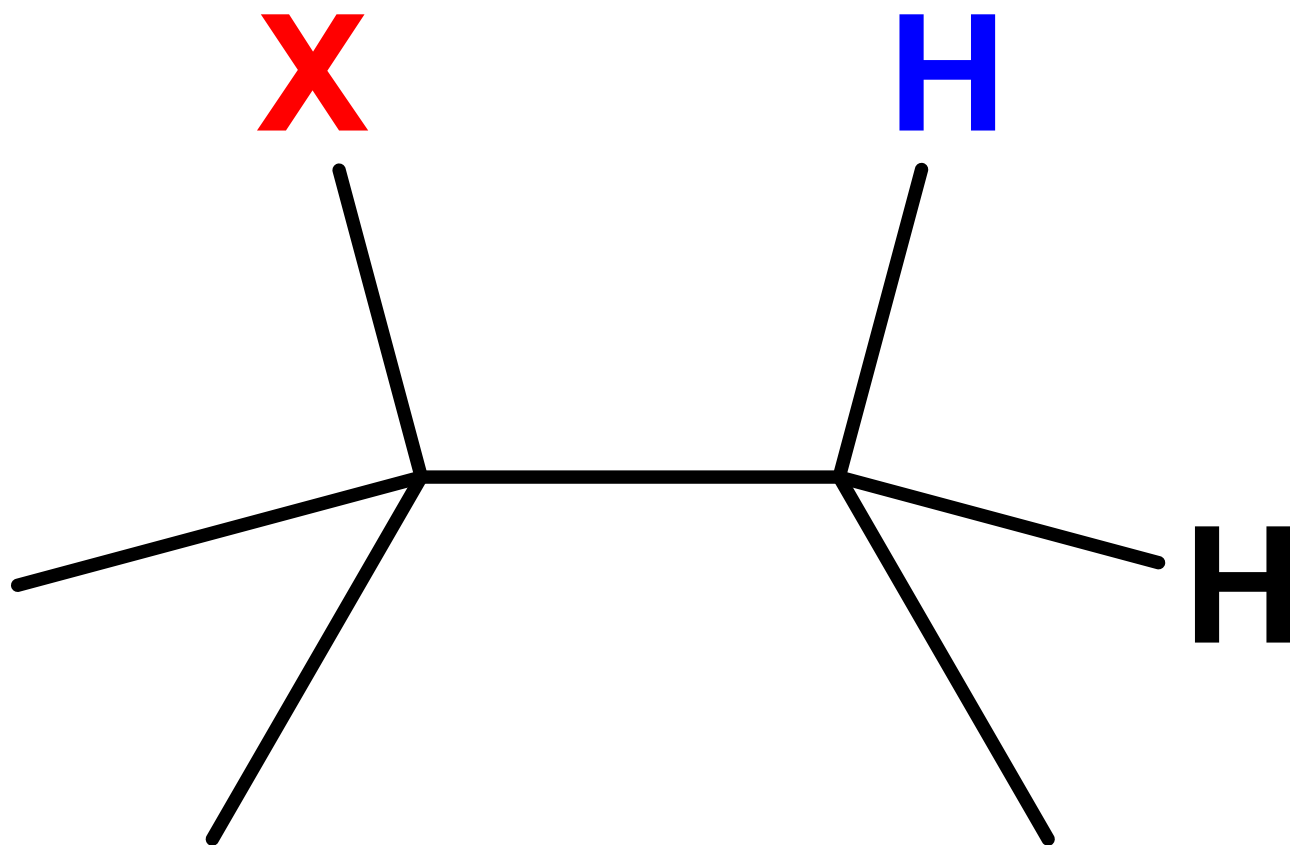


Addition Reactions of Alkenes

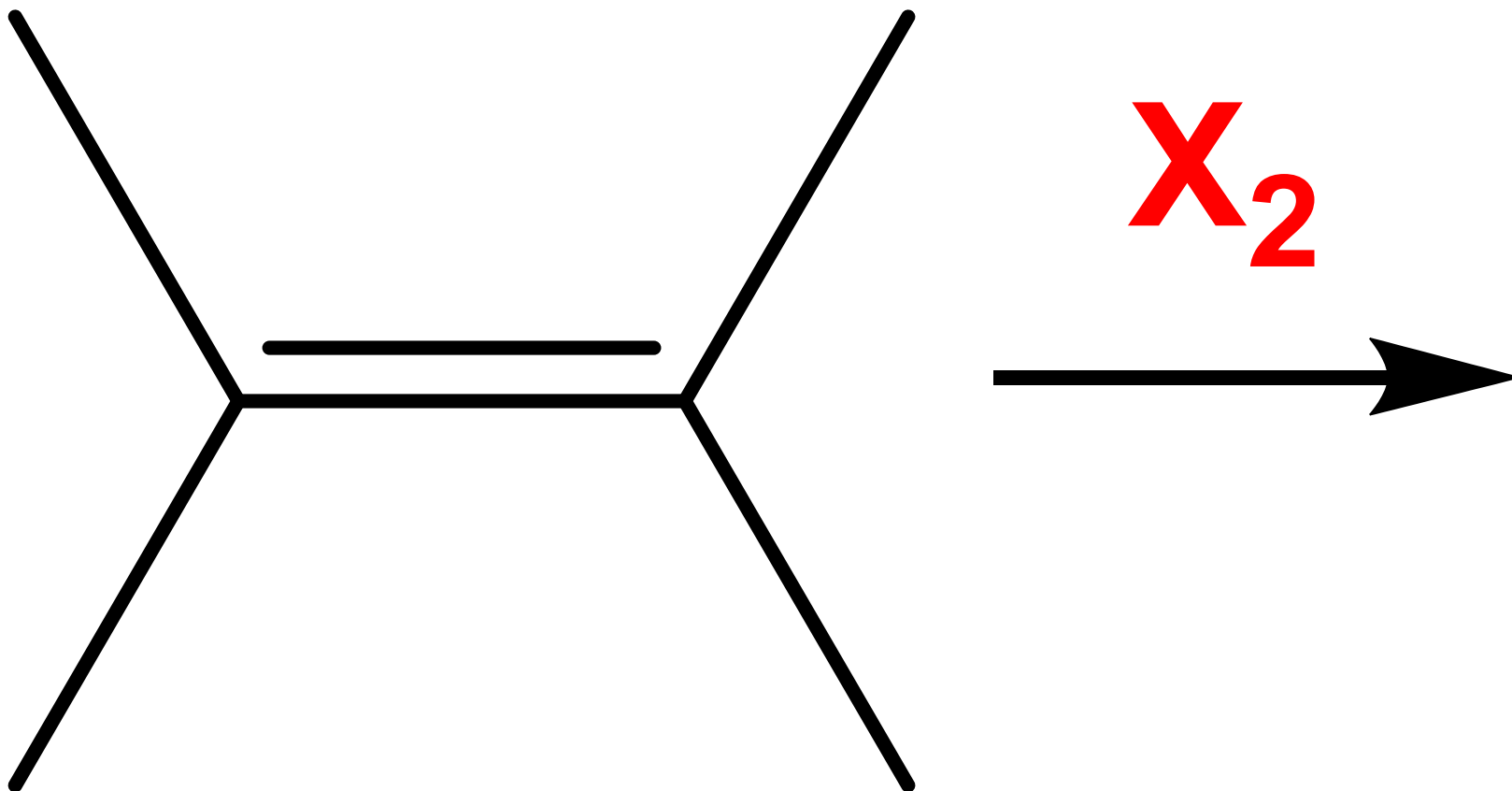
Hydrohalogenation



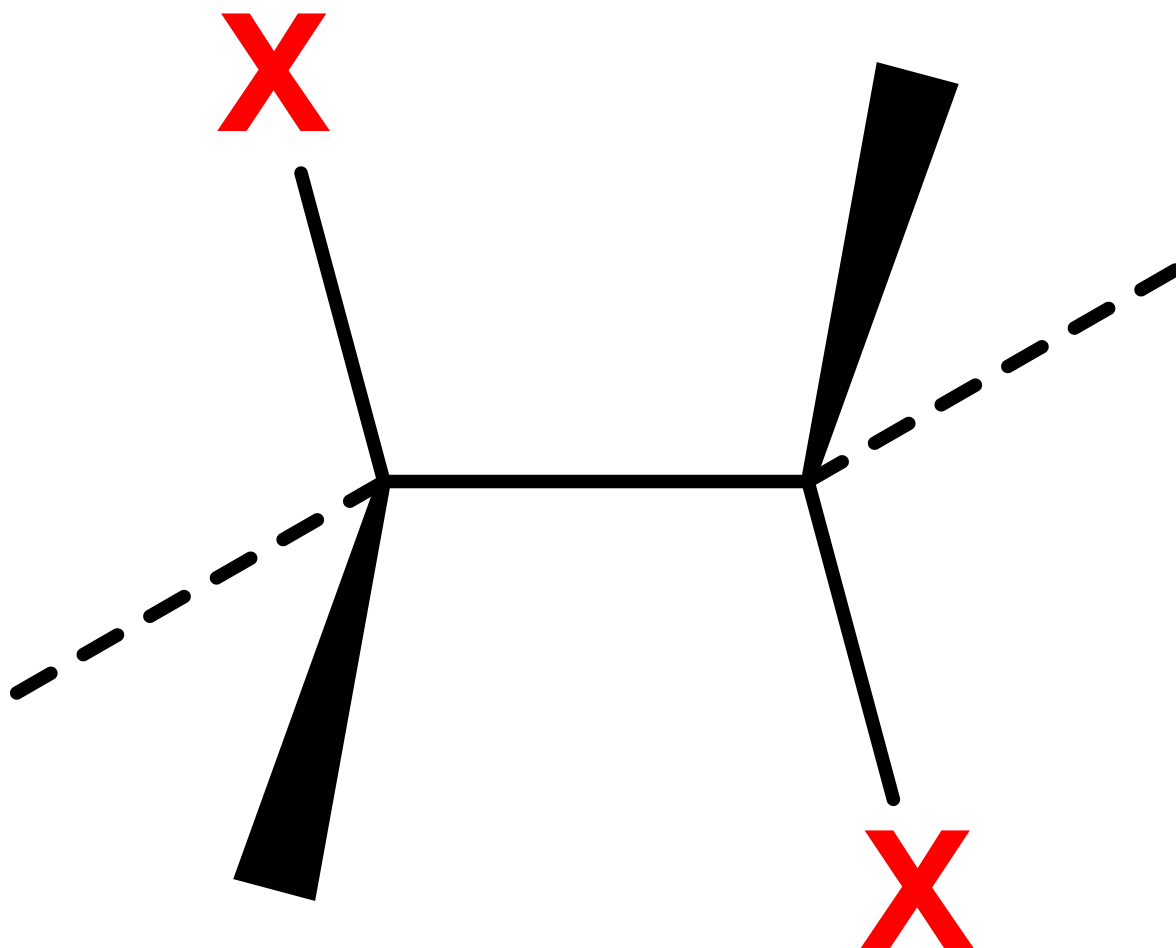


Regiochemistry of addition:
Markovnikov

Halogenation

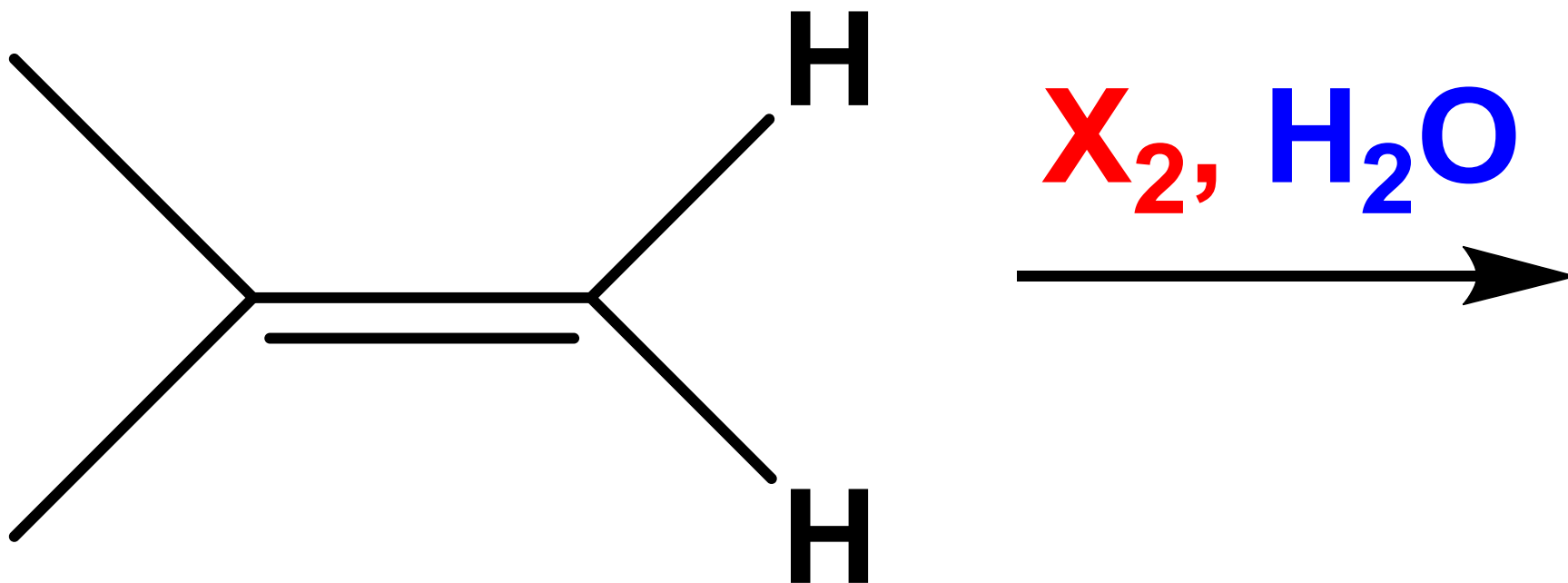


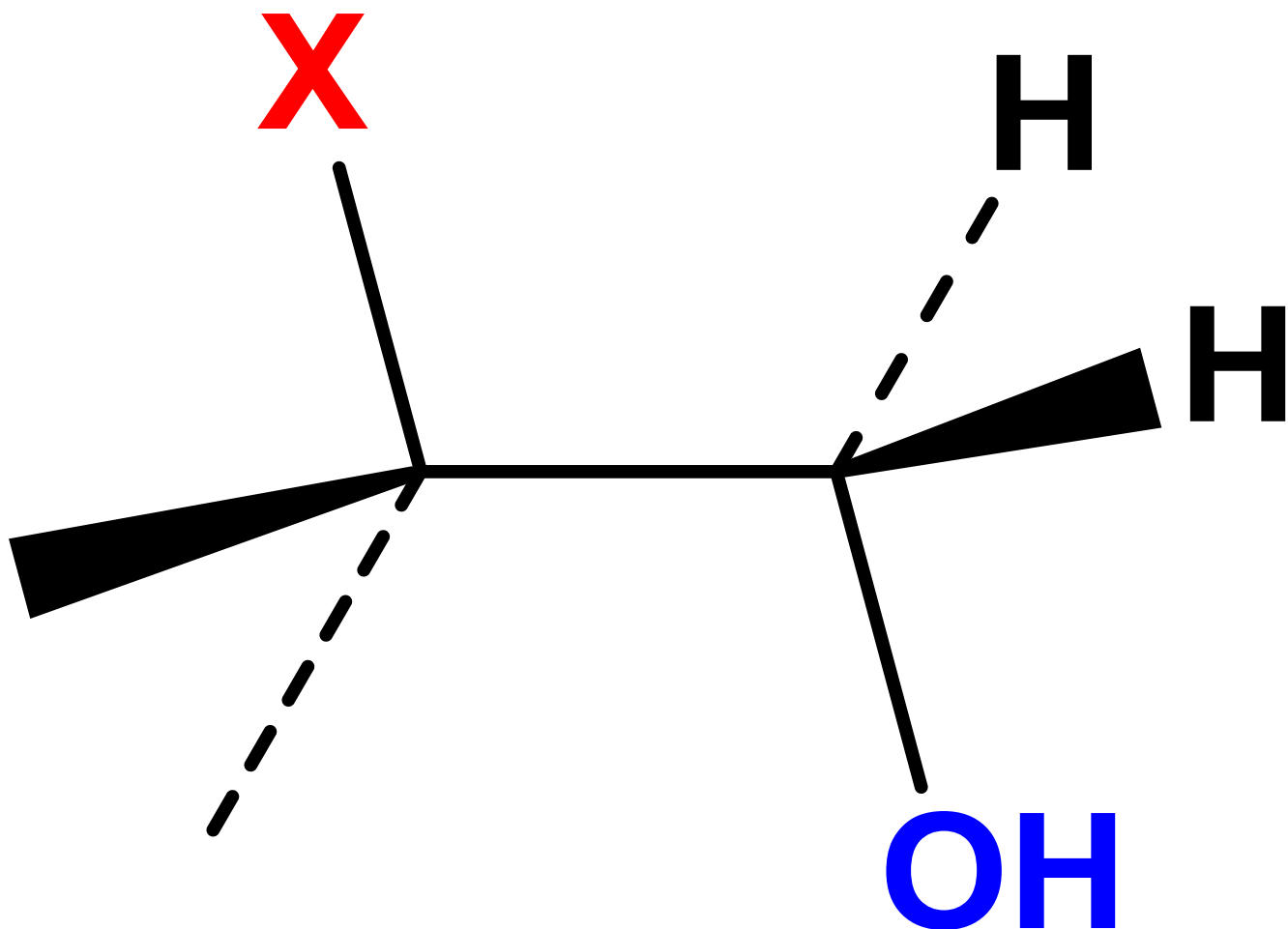
$X = \text{Cl or Br}$



Anti-addition

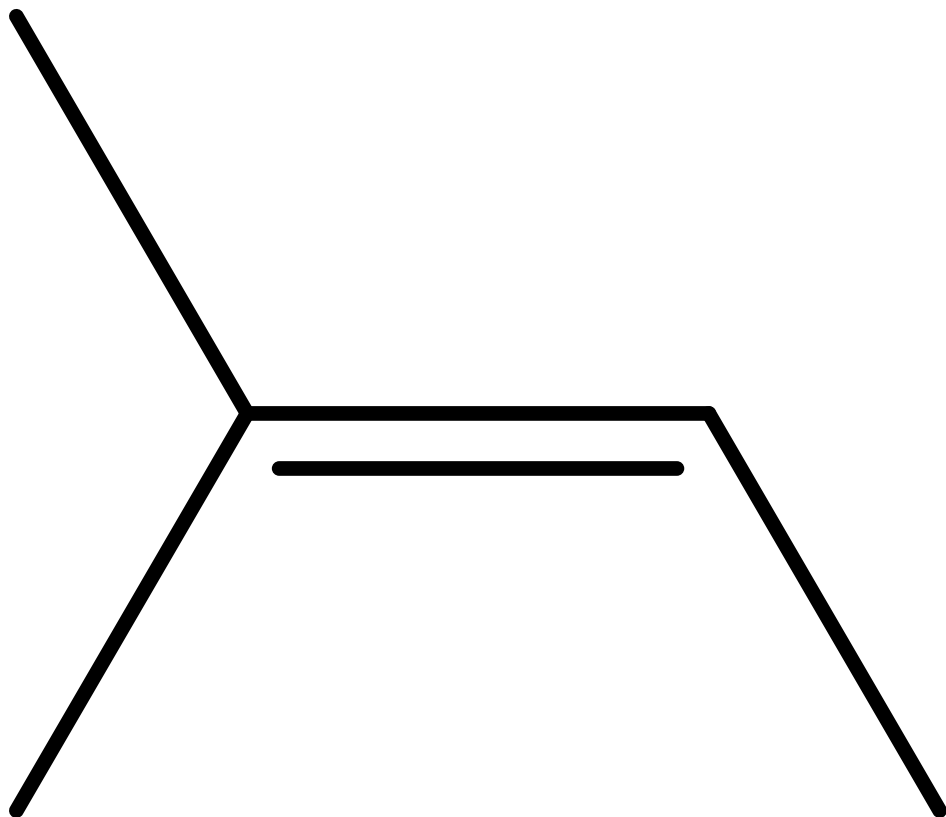
Halohydrin Formation





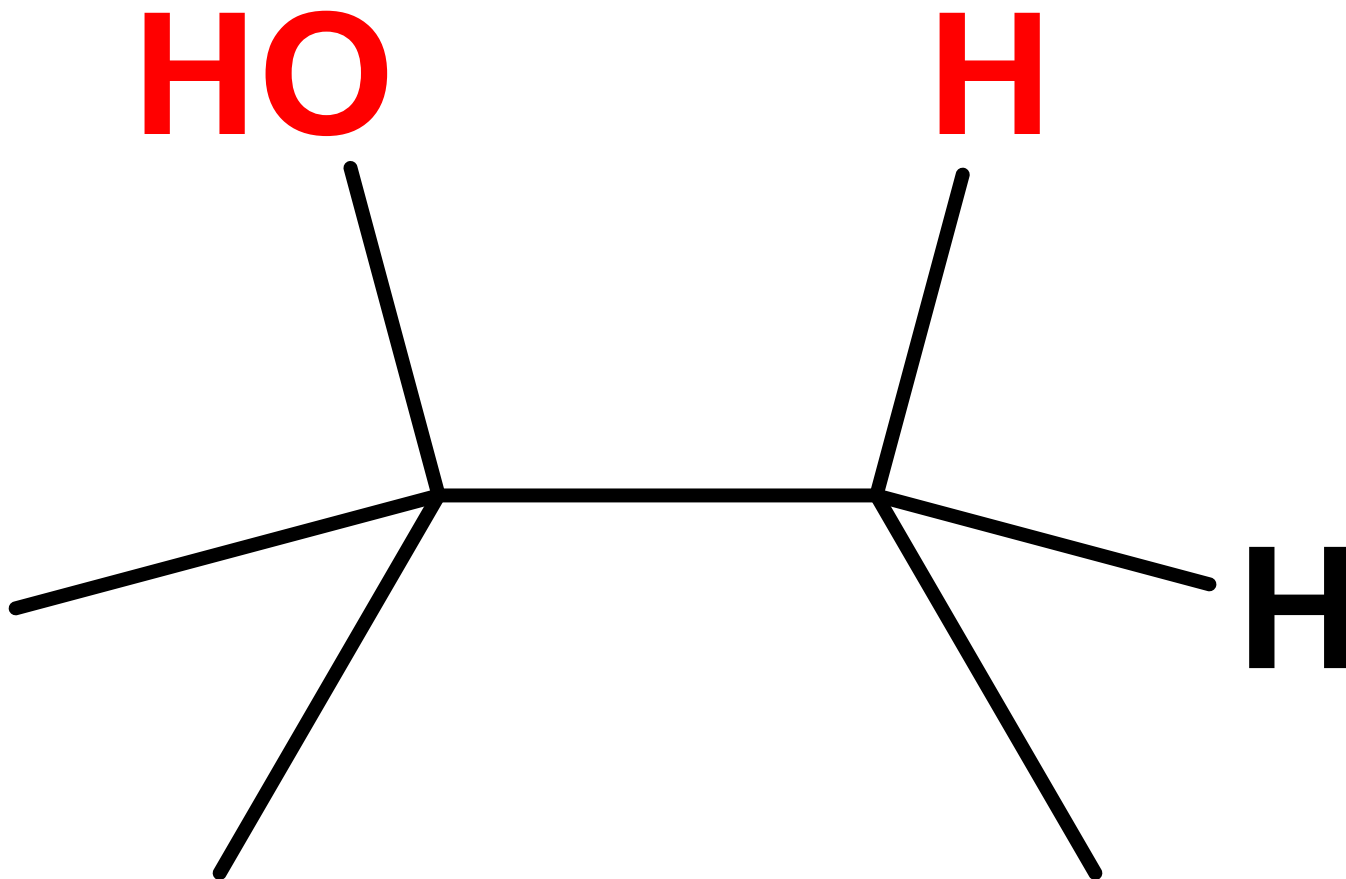
Regiochemistry of addition:
Markovnikov

Acid-catalyzed hydration



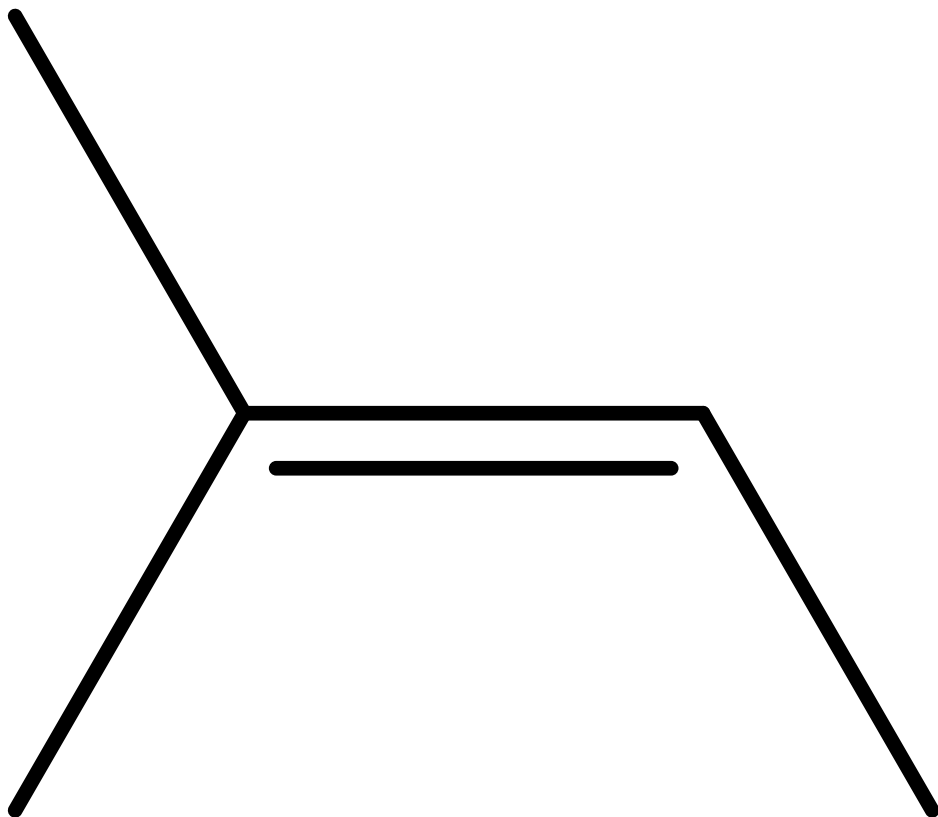
H^+ , H_2O





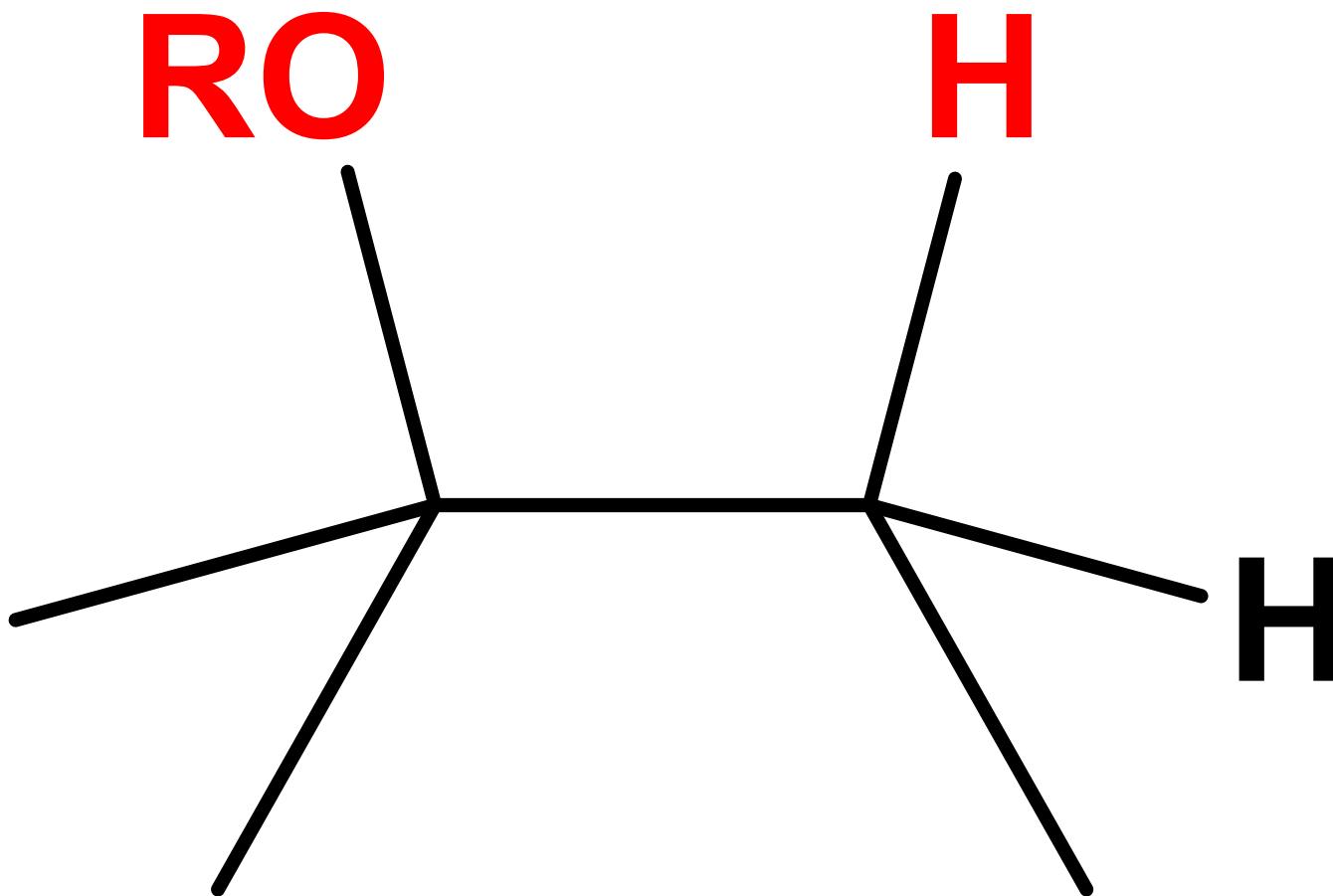
Regiochemistry of addition:
Markovnikov

Acid-catalyzed alcohol addition



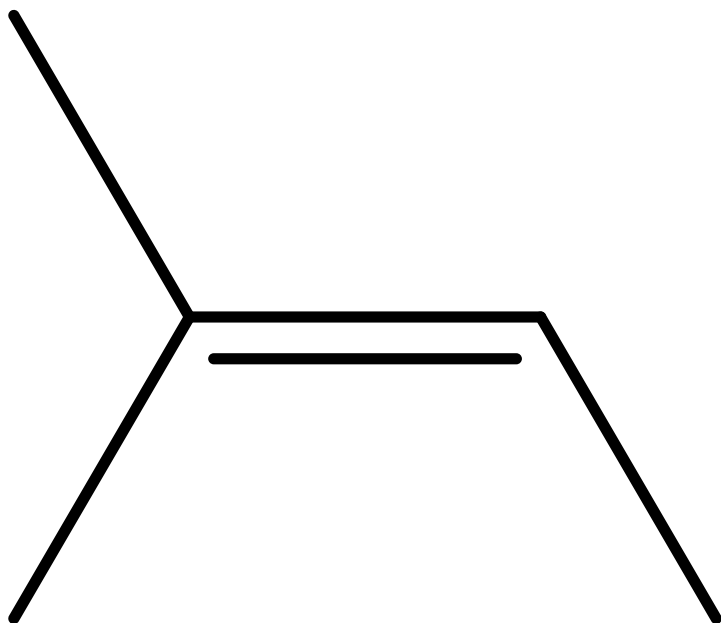
H^+ , H-OR





Regiochemistry of addition:
Markovnikov

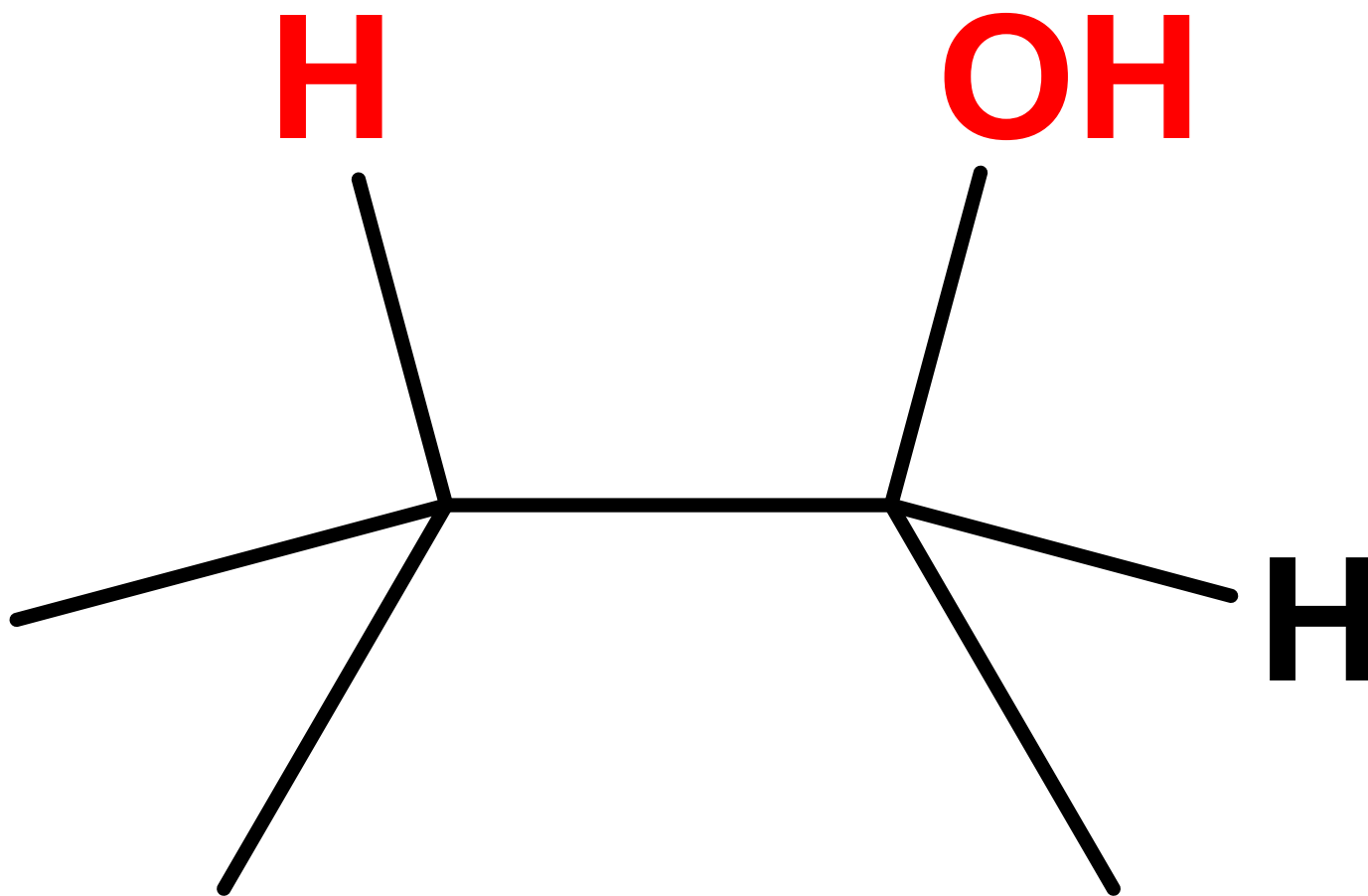
Hydroboration / oxidation



(1) **BH₃**, THF



(2) H_2O_2 , **OH⁻**



Regiochemistry of addition:
Anti - Markovnikov