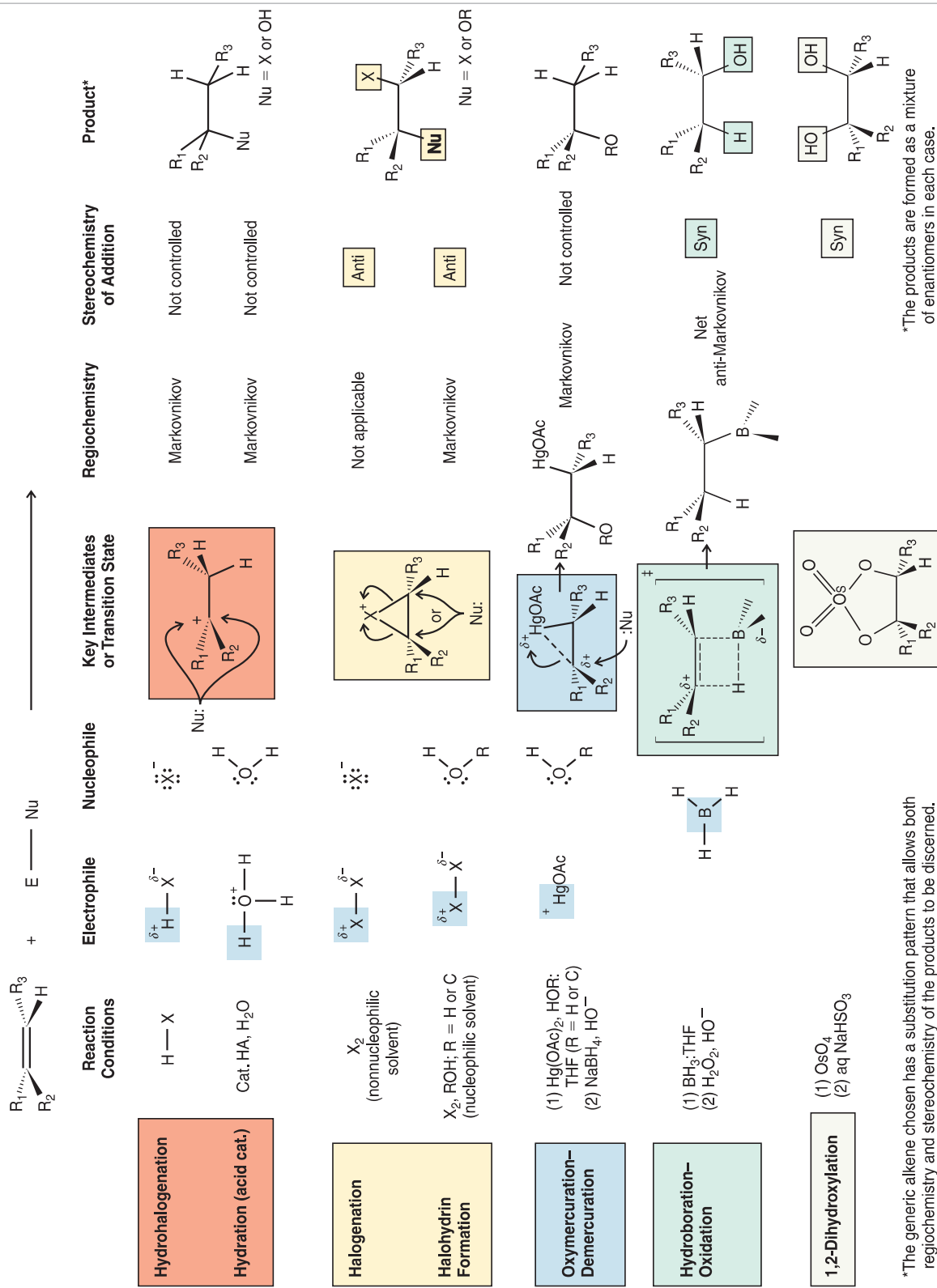


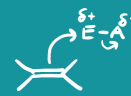
[SUMMARY AND REVIEW TOOLS]

Summary of Alkene Addition Reactions



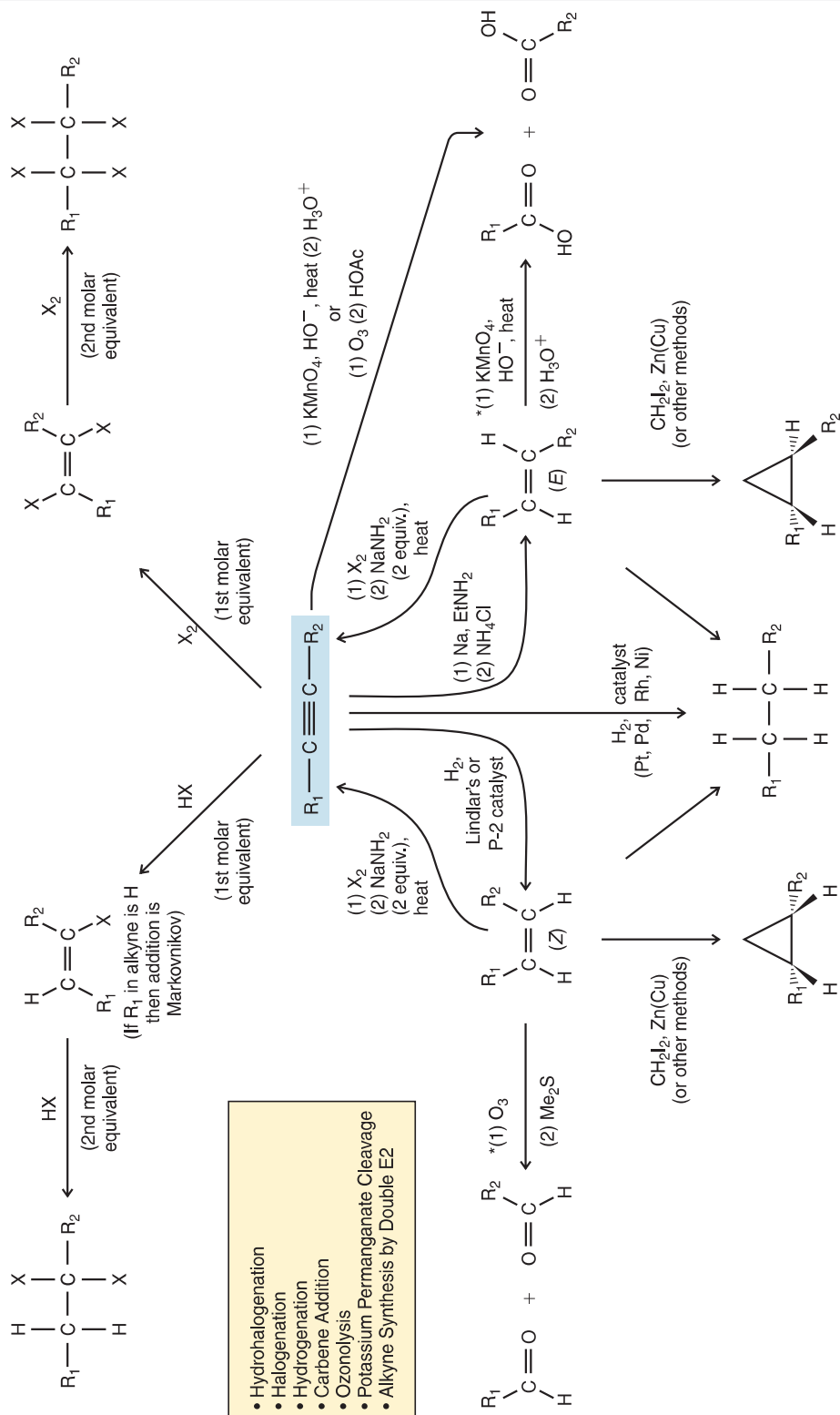
*The generic alkene chosen has a substitution pattern that allows both regiochemistry and stereochemistry of the products to be discerned.

*The products are formed as a mixture of enantiomers in each case.



[SUMMARY AND REVIEW TOOLS]

Synthetic Connections of Alkynes and Alkenes: II



- Hydrohalogenation
- Halogenation
- Hydrogenation
- Carbene Addition
- Ozonolysis
- Potassium Permanganate Cleavage
- Alkyne Synthesis by Double E2

*If R₁ is H, then alkene ozonolysis generates formaldehyde and KMnO₄ generates CO₂. If the alkene is disubstituted at one end, a ketone results from cleavage by either ozonolysis or KMnO₄.