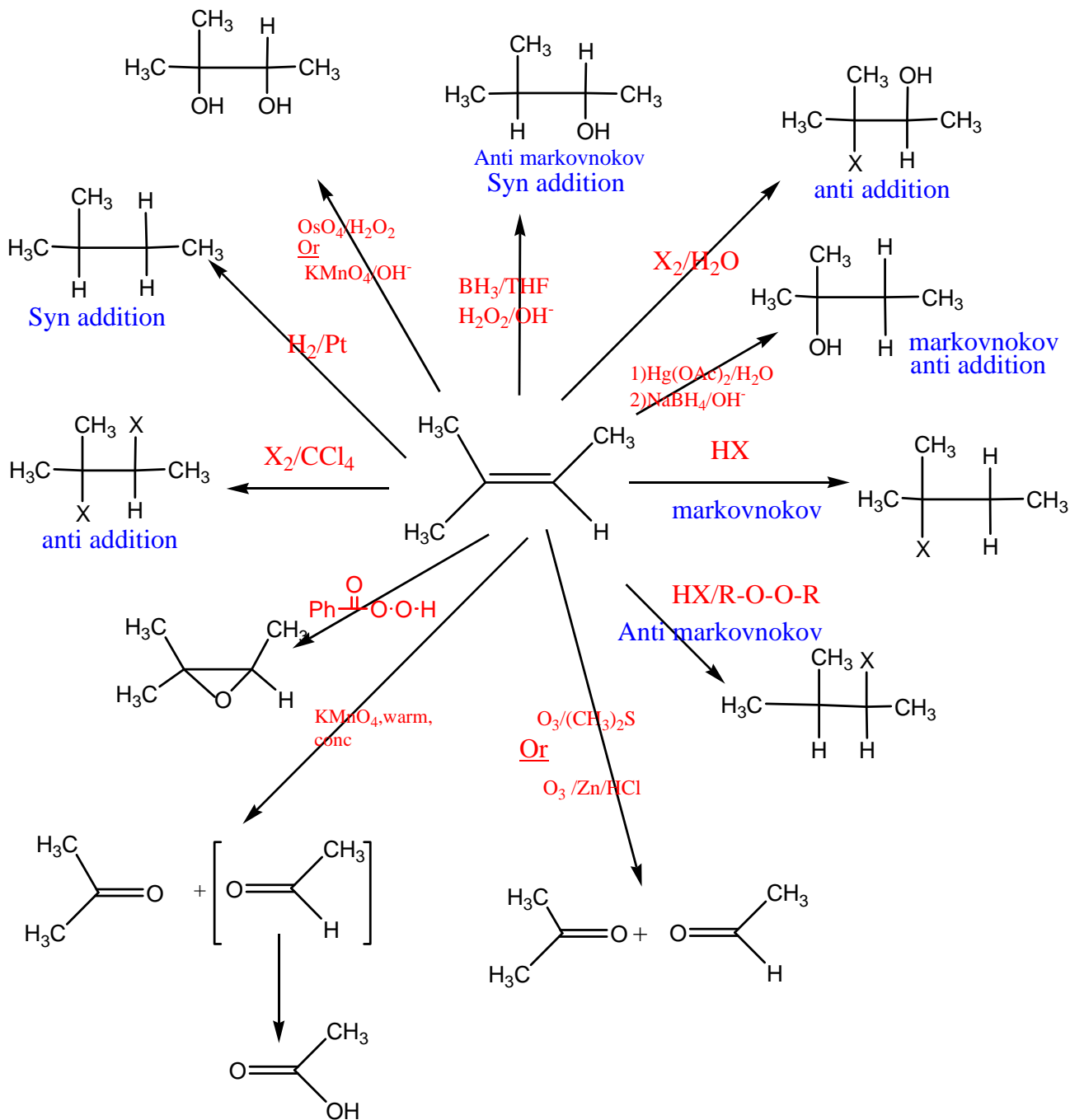
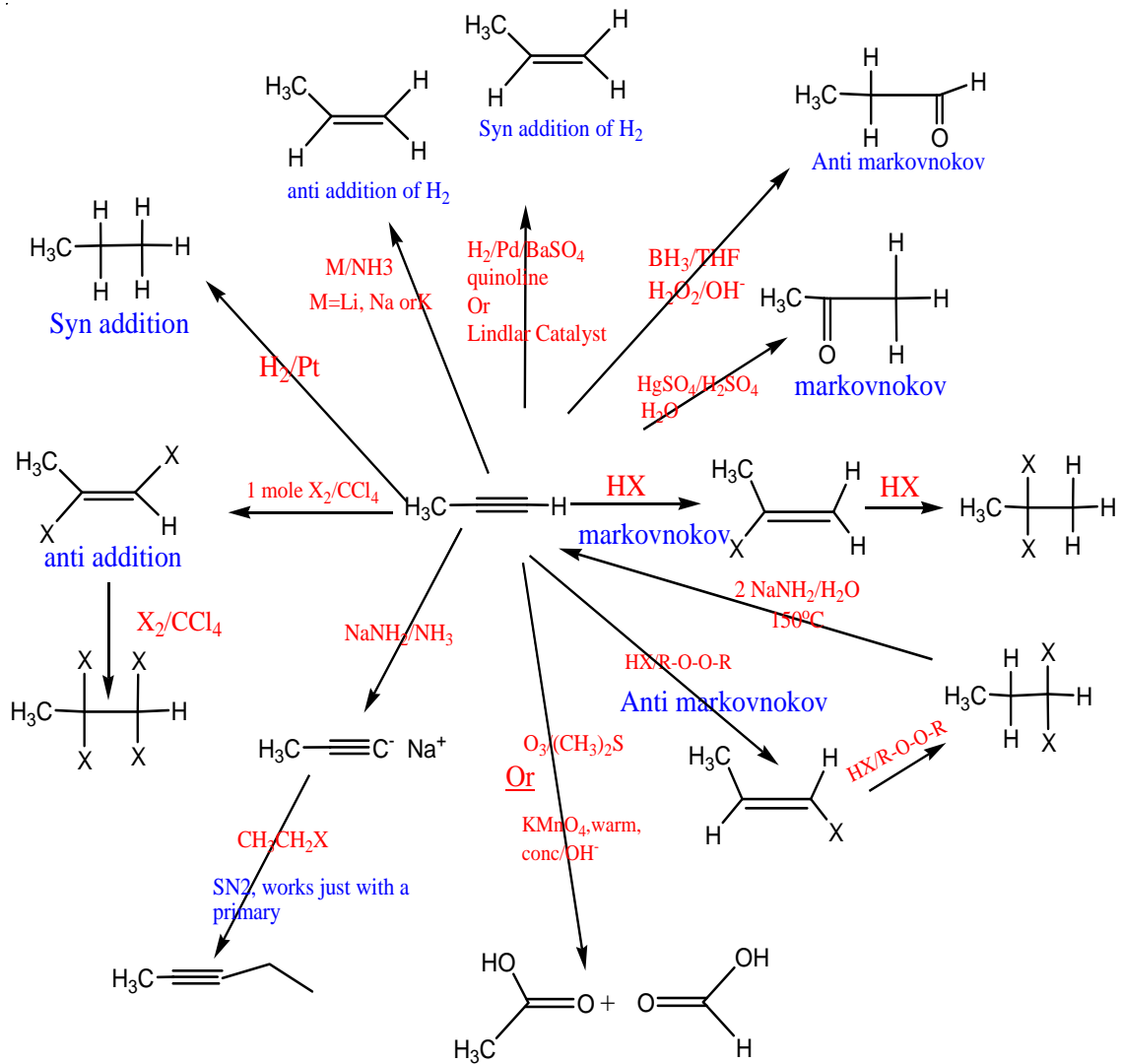


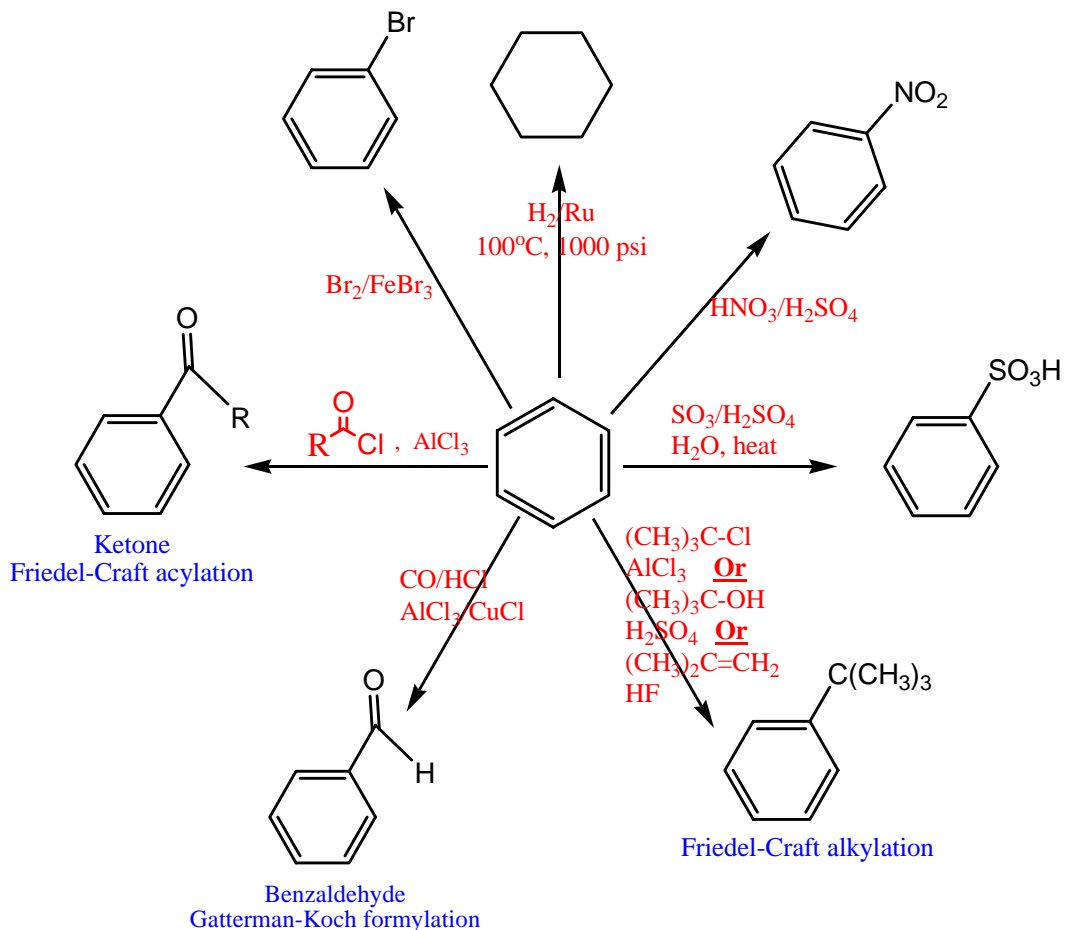
Alkenes



Alkynes

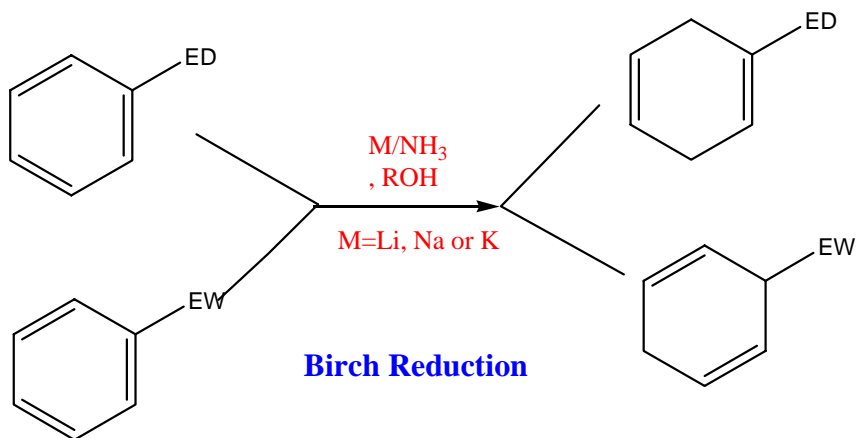


Reaction of Aromatic compounds



Substituent affects

- Alkyls, $-\text{NH}_2$, $-\text{NH-CO(R)}$, $-\text{OR}$, $-\text{OH}$, $-\text{O}^-$ are electron donating groups are activators, ortho and para directors.
- Cl, Br, F, I, electron withdrawing group are deactivators but ortho and para directors.
- $-\text{NO}_2$, $-\text{SO}_3\text{H}$, $-\text{N}^+\text{R}_3$, acyl, $-\text{CN}$ withdrawing group are deactivators, meta directors



Side chain reactions

