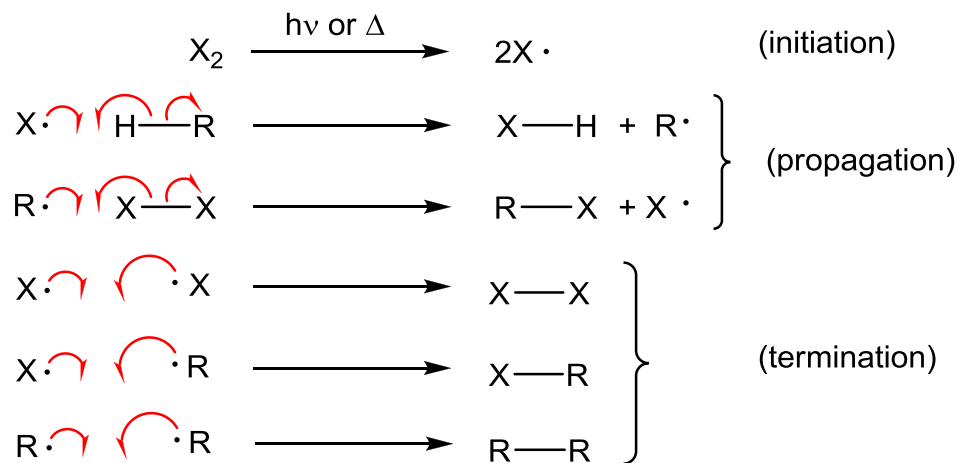


Mechanisms - Substitution Reactions

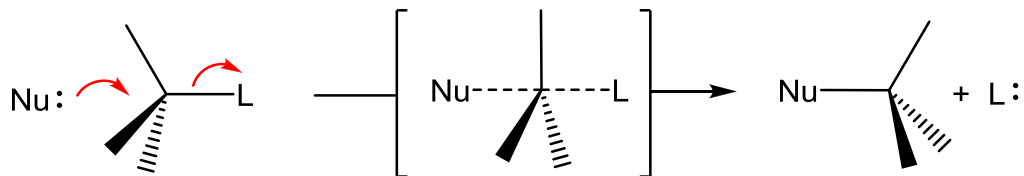
1. Free radical substitution



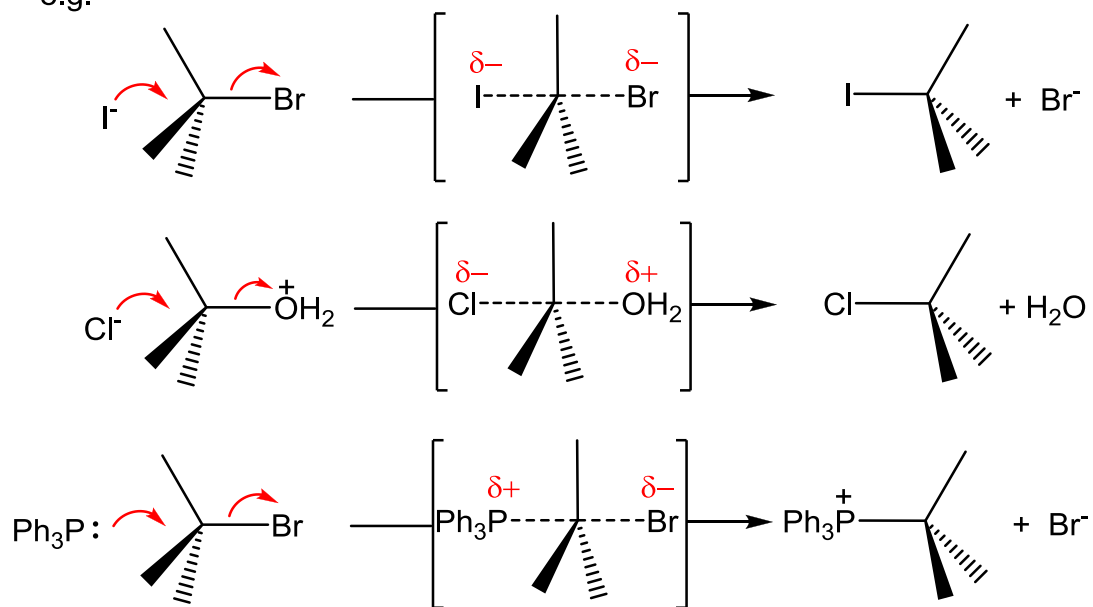
2. Nucleophilic substitution

a. At alkyl carbon

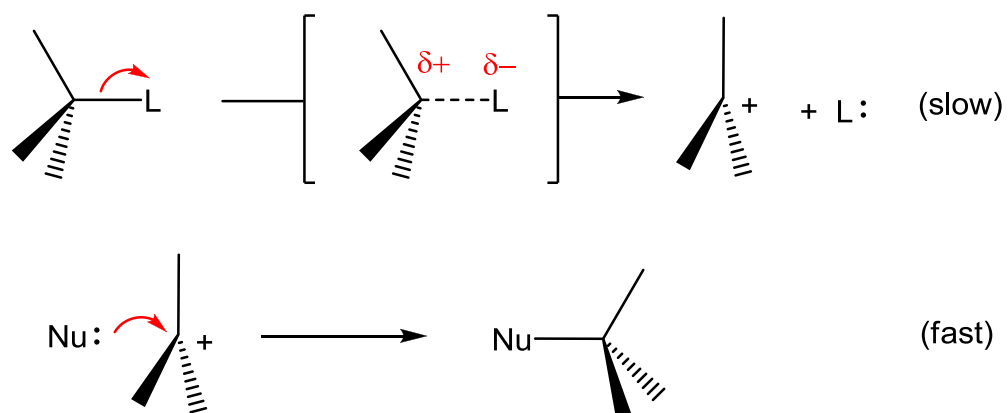
i. The S_N2 mechanism



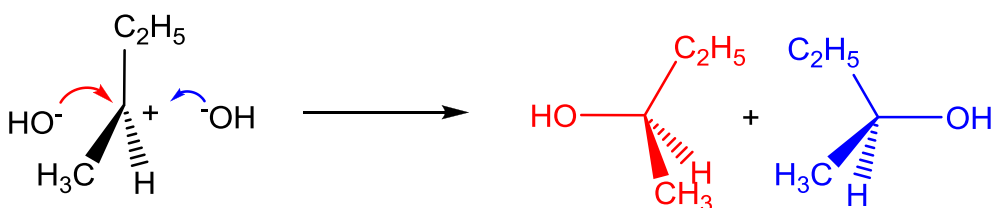
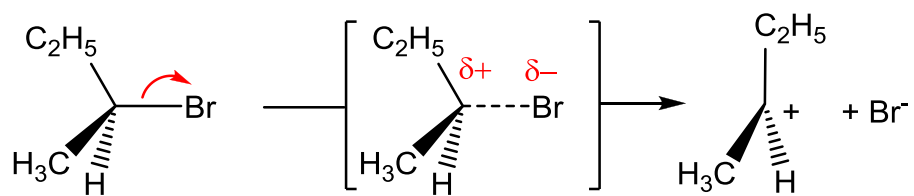
e.g.



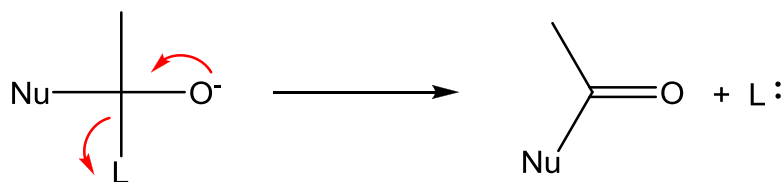
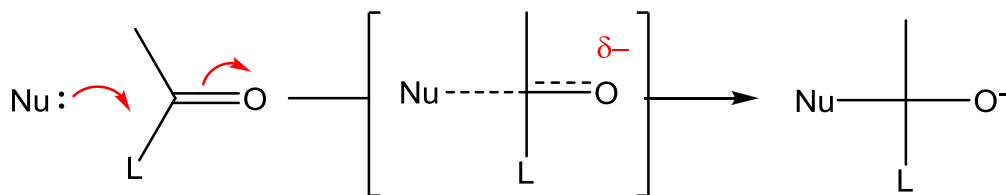
ii. The S_N1 mechanism



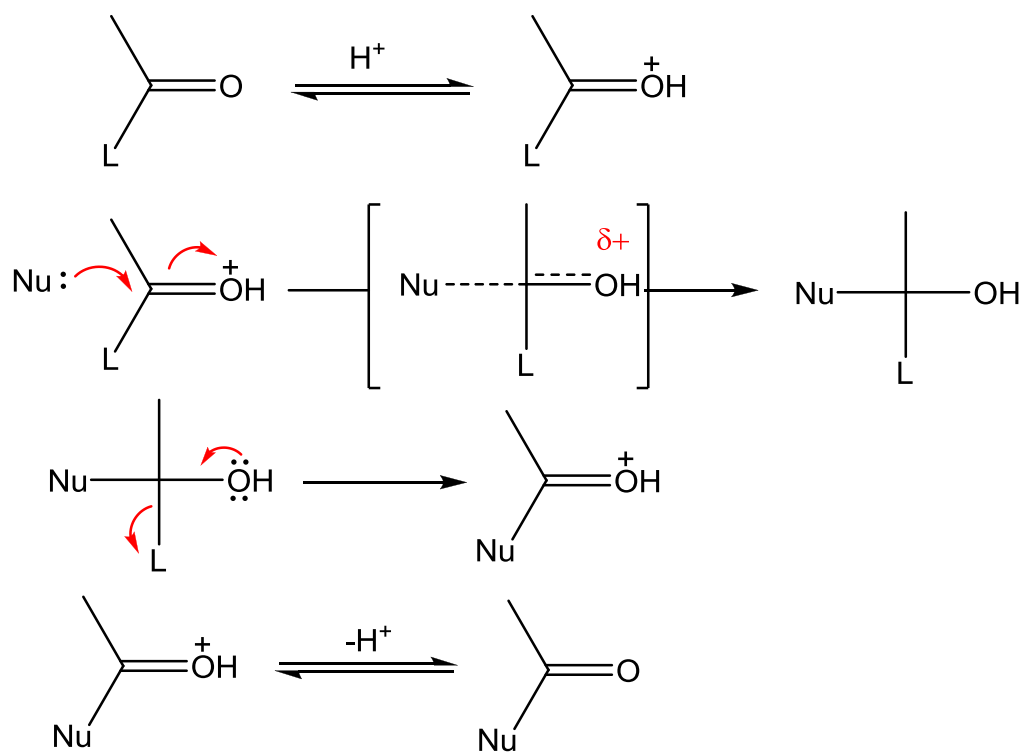
e.g.



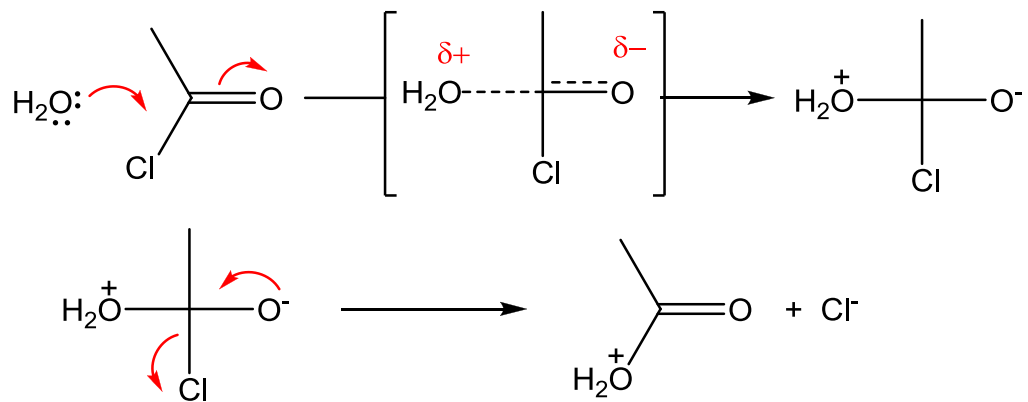
b. At acyl carbon

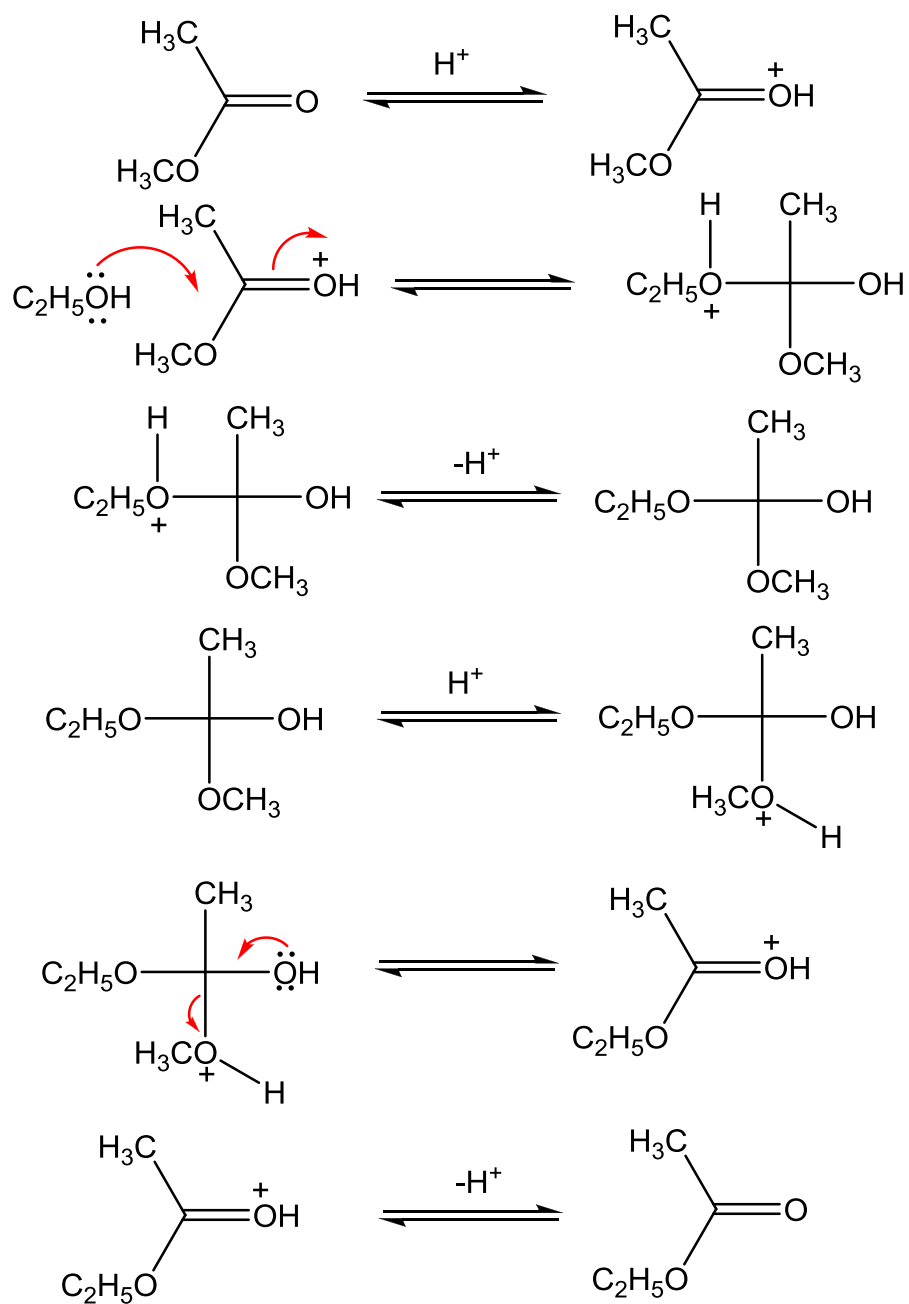


or

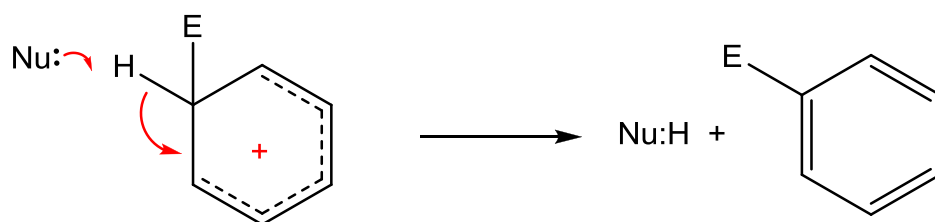
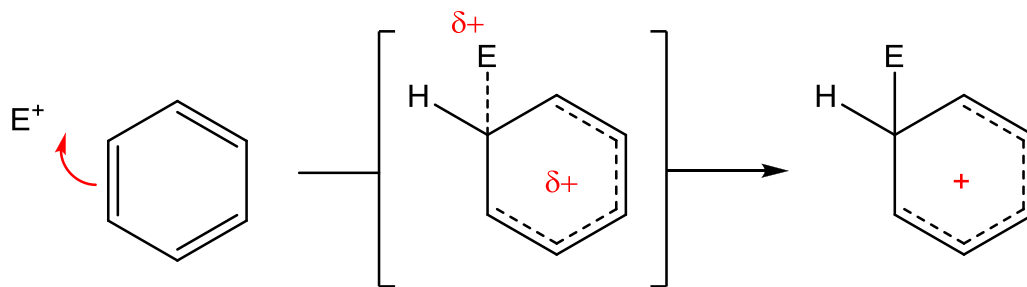


e.g.





3. Electrophilic aromatic substitution



e.g

