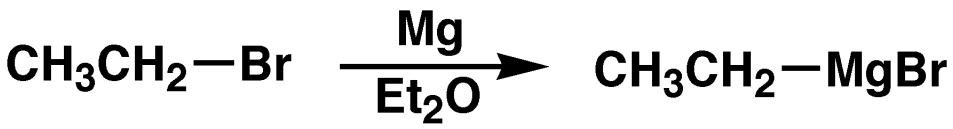
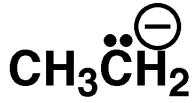
Addition Involving Carbon Nucleophiles

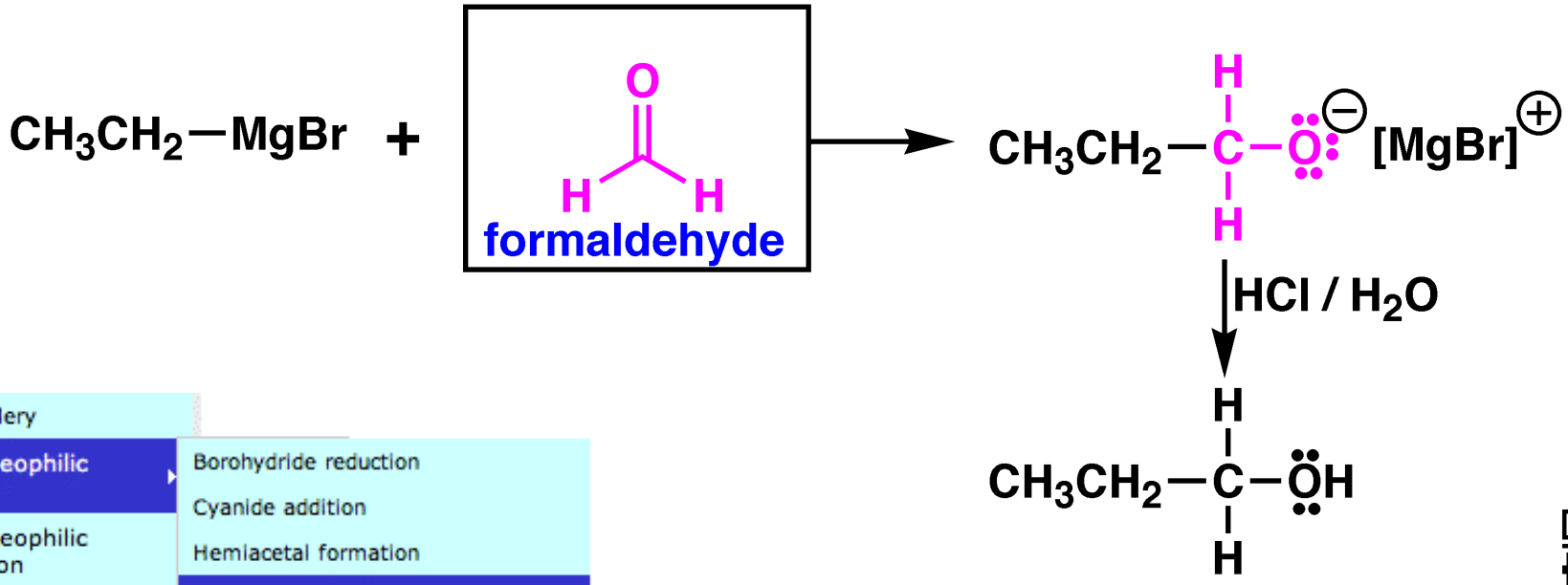
Grignard reagents



Reacts like a carbanion Nu:⁻



Synthesis of primary alcohols



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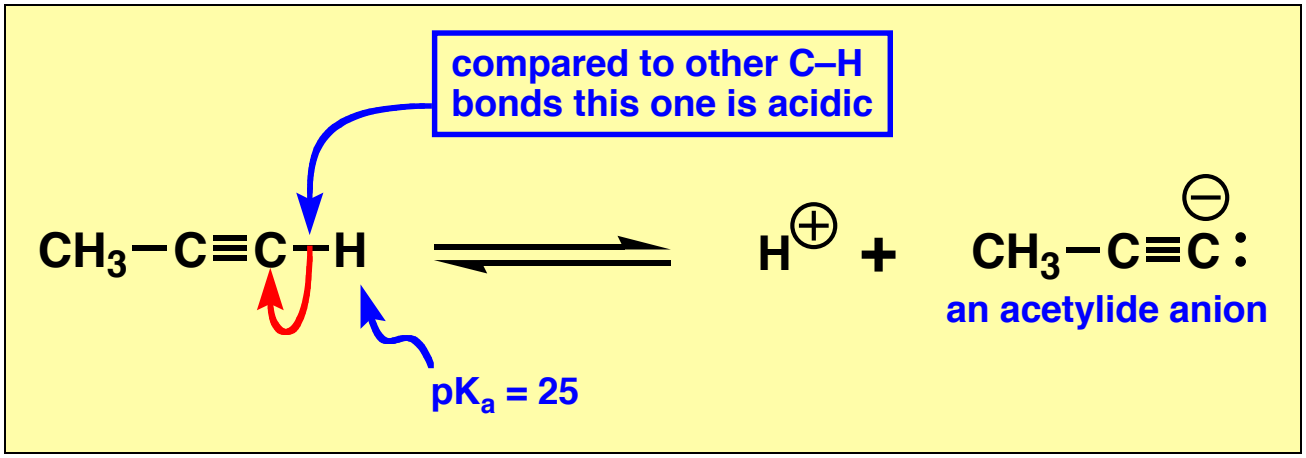
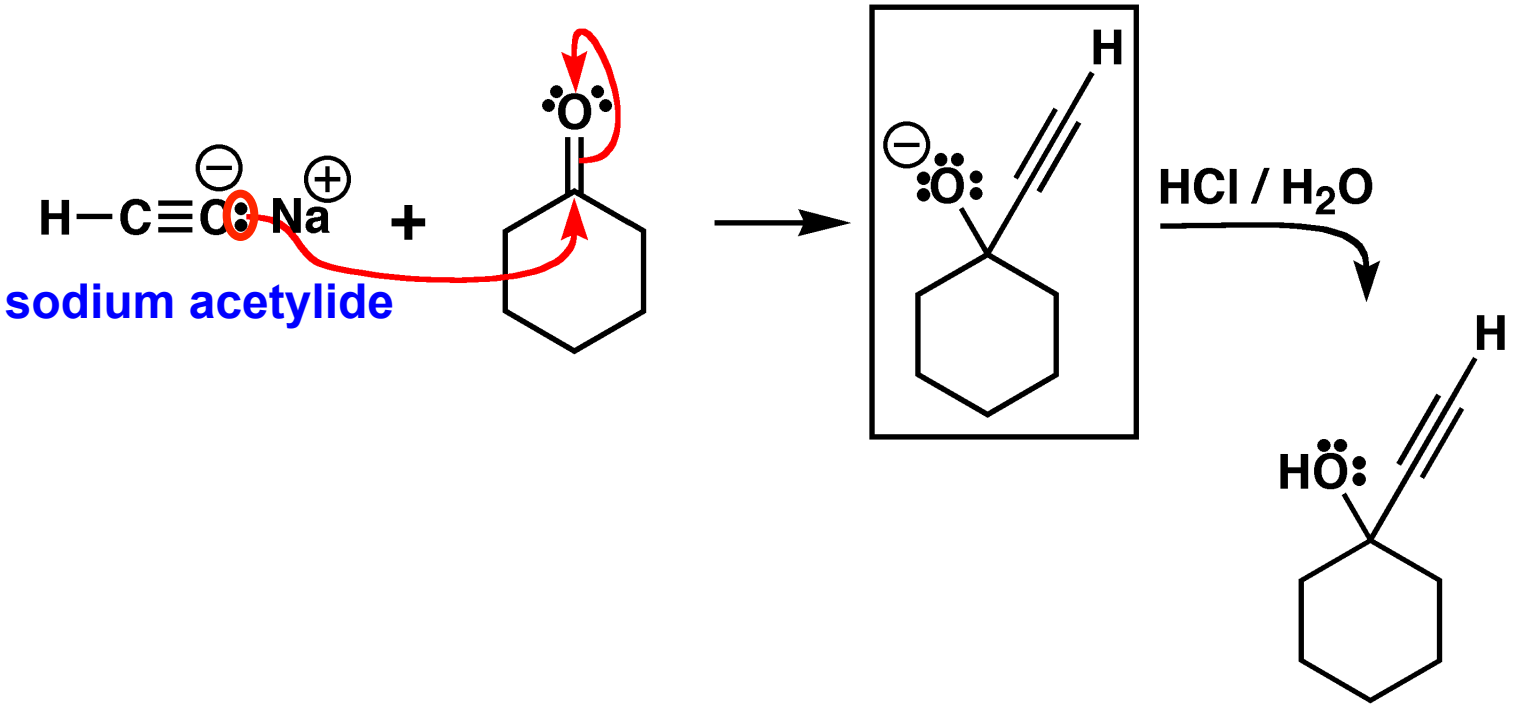
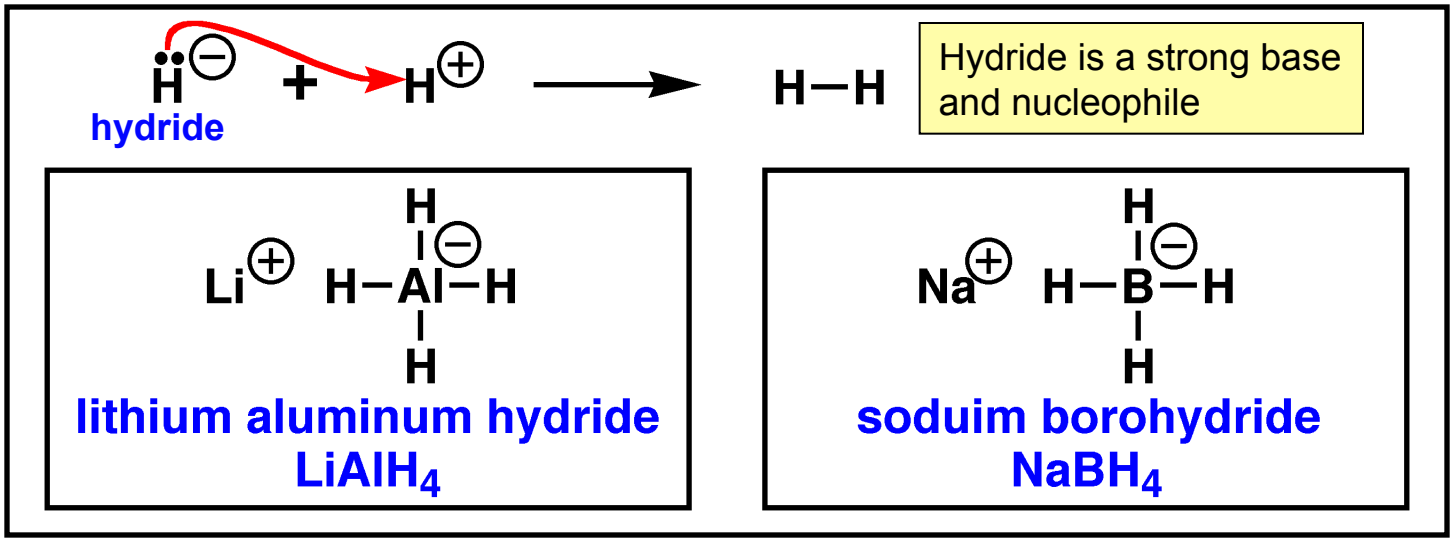
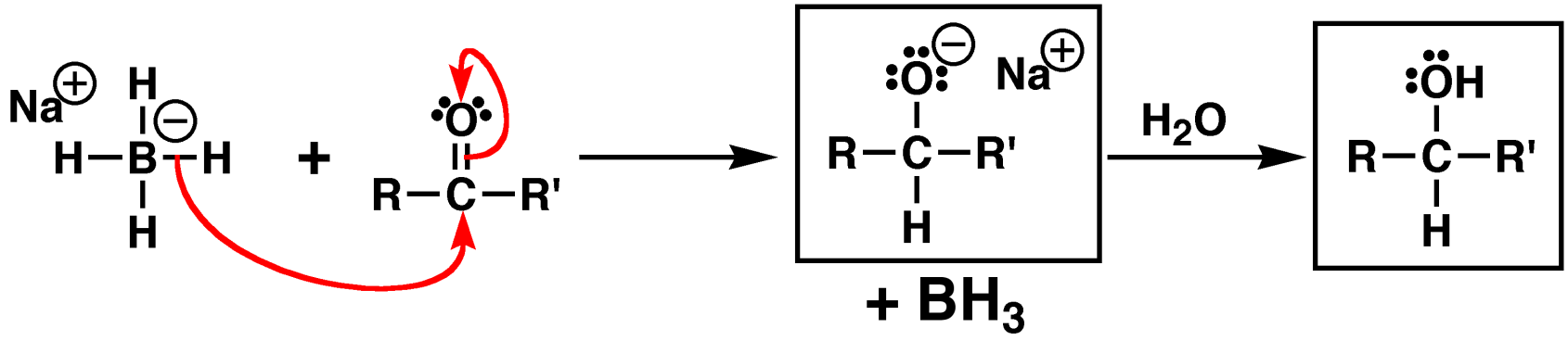
Acetylide Anions As Carbon Nucleophiles

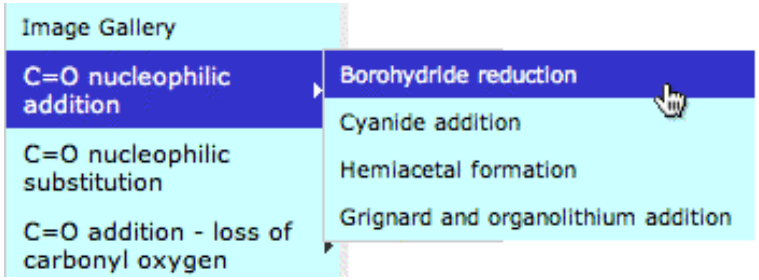




Hydride Reduction of Ketones and Aldehydes







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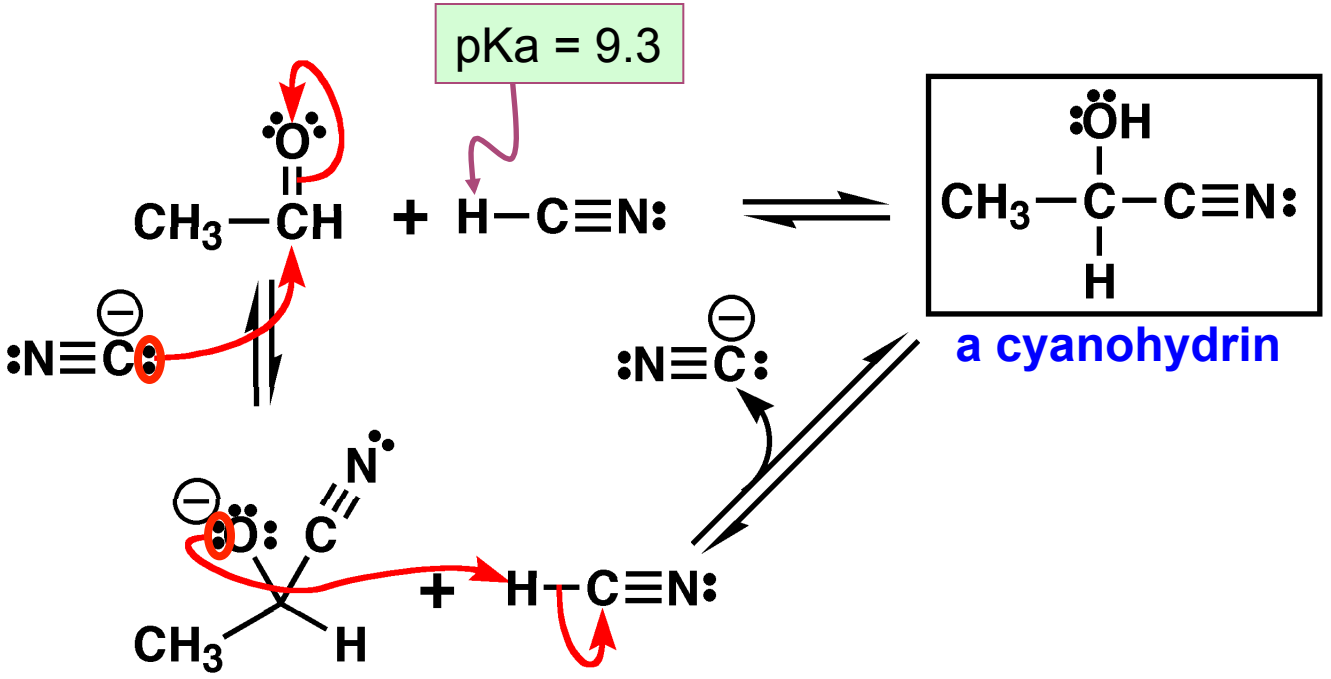
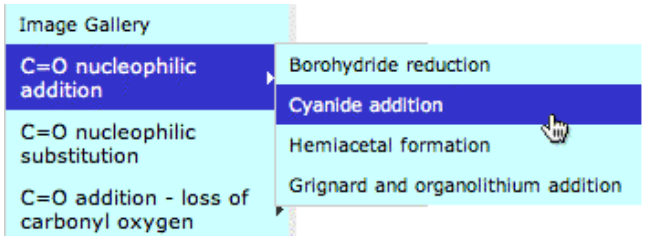
Addition of H-CN to a Ketone or Aldehyde: Cyanohydrin Formation



For aldehydes and most ketones, the position of the equilibrium favors cyanohydrin formation. For aryl ketones and sterically hindered aliphatic ketones, starting materials are favored.



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