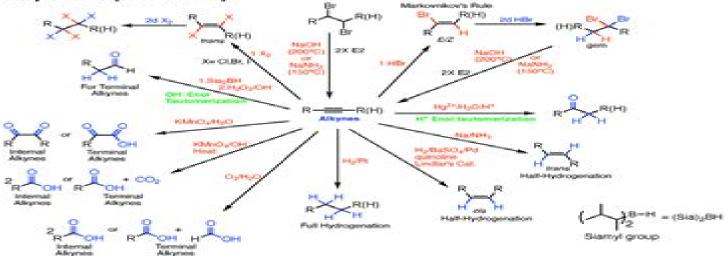
Chapter 9 Alkyne Chemistry



1. Acetylide Anions: Terminal triple bonds (alkynes, "yne" ending) have can be deprotonated with very strong bases. The most common base used is NaNH₂, sodium amide, the conjugate base of a very weak acid, NH₃ (pKa = 35). This makes the acetylide anion that is a great nucleophile for 1° alkyl halides, as well as methyl and benzyl halides. 2° and 3° undergo quick E2 elimination with acetylide anions because they are strong bases.

$$NH_{3} + Na^{0} \xrightarrow{Fe(NO_{3})_{3}} Na^{\odot} NH_{2} + 1/2 H_{2}$$

$$Sodium amide$$

$$NH_{3} + \blacksquare^{\odot} NH_{2}$$

$$pKa = 25$$

$$CH_{3}Br$$

$$1^{\circ} \text{ only}$$

$$NH_{3} + \blacksquare^{\odot} Acetylide Anion$$

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John McMurry, Susan McMurry

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