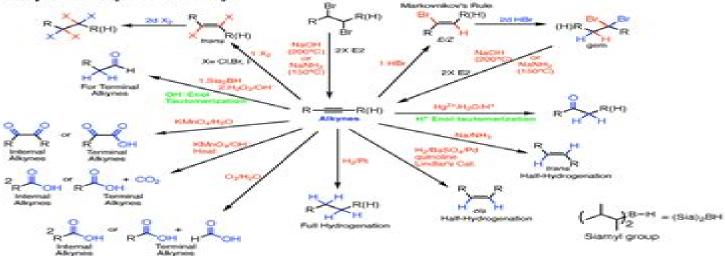
Chapter 9 Alkyne Chemistry



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.

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

$$Sodium amide$$

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

$$pKa = 25$$

$$CH_{3}Br$$

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

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

Ch 9 Alkynes Study Guide

L Reisser



Decoding Ch 9 Alkynes Study Guide: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Ch 9 Alkynes Study Guide**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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