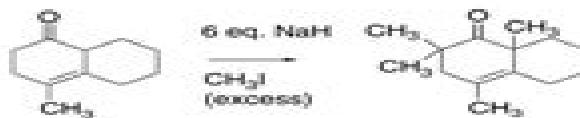


b. This transformation involves methylation at all enolizable positions. The alkylation was effected using a sixfold excess of NaH and excess methyl iodide. Evidently there is not a significant amount of methylation at C(4), which could occur through γ -alkylation of the C(8a)-enolate.



c. This alkylation was accomplished using two equivalents of NaNH_2 in liquid NH_3 . The more basic site in the dianion is selectively alkylated. Note that the dianion is an indenyl anion, and this may contribute to its accessibility by di-deprotonation.



d. This is a nitrile alkylation involving an anion that is somewhat stabilized by conjugation with the indole ring. The anion was formed using NaNH_2 in liquid NH_3 .



Advanced Organic Chemistry Part A Solution

Francis A. Carey, Richard J. Sundberg

Advanced Organic Chemistry Part A Solution:

Advanced Organic Chemistry Francis A. Carey, Richard J. Sundberg, 2007-06-13 The two part fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand alone together with Part B Reaction and Synthesis the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure reaction and selectivity for students and exercise solutions for instructors.

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Advanced Organic Chemistry: Structure and mechanisms Francis A. Carey, Richard J. Sundberg, 2000 This textbook provides broad coverage of the structure reactivity and synthesis of organic compounds. The material in Part A is organized on the basis of fundamental structural topics. The fourth edition updates certain topics that have advanced rapidly since the third edition was published.

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