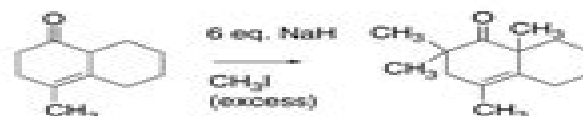


- b. This transformation involves methylation at all enolizable positions. The alkylation was effected using a sixfold excess of NaH and excess methyl iodide. Evidently there is not a significant amount of methylation at C(4), which could occur through γ -alkylation of the C(8a)-enolate.



- c. This alkylation was accomplished using two equivalents of NaNH₂ in liquid NH₃. 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 NaNH₂ in liquid NH₃.



1. The following are the structures of the intermediates in the reaction of 1-methylindole-3-carbonitrile with PhCH₂Cl in liquid NH₃. The first structure is the starting material, the second is the intermediate anion, and the third is the final product.
2. The following are the structures of the intermediates in the reaction of 1-methylindole-3-carbonitrile with PhCH₂Cl in liquid NH₃. The first structure is the starting material, the second is the intermediate anion, and the third is the final product.



Advanced Organic Chemistry Part A Solution

Francis A. Carey, Richard J. Sundberg



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