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.

Solution Manual For Advanced Organic Chemistry Part

James M. Coxon

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