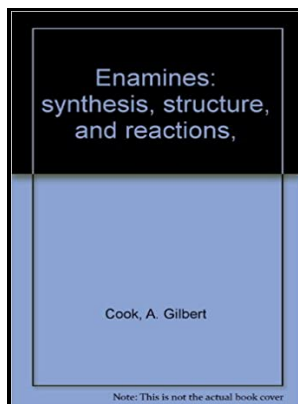


# Enamines: synthesis, structure, and reactions

M. Dekker - Organic Chemistry 1 and 2 Topics



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## Enamines: Synthesis: Structure, and Reactions, Second Edition,

In a synthesis of opioid antagonists, an enamine intermediate Table 10, entry 12 was reduced effectively with NaBH<sub>4</sub> in MeOH.

## Organic Chemistry 1 and 2 Topics

Biological Imine Forming Reactions Imine intermediates are common in biological pathways. Consequently, the best hydride reagents to reduce enamines are those that are stable under acid conditions such as NaBH<sub>3</sub>CN and NaBH<sub>3</sub>OAc. The following is an explanation of how the synthetic reactions are carried out for ketones and aldehydes.

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Reactions are sensitive to acidic or alkaline conditions, which can cause hydrolysis of the —CN group. To do so, they investigated enamines with isoxazole, 1,2,4-oxadiazole, and 1,2,3-thiadiazole fragments to the reaction with isocyanides. This is primarily due to the fact that when acetate is the counterion the intermediate iminium ions are labile and readily tautomerize.

## Stereoselective Synthesis of Nitrogen

Imines featuring  $\alpha$ -hydrogens are in equilibrium with their enamine tautomers. This feature makes the tautomerizable imine resemble the reactivity of the corresponding enamine in organic transformations. Dehydration of the aminoalkanol is acid catalyzed; this reaction normally is fast at pH values smaller than 3-4.

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