

# Alkyl 3-Nitroacrylates: Synthesis and Reactions with Cyclohexane-1,3-diones and Meldrum's Acid

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**Abstract**—A modified procedure was proposed for the synthesis of alkyl 3-nitroacrylates by nitroiodination of alkyl acrylates and subsequent dehydroiodination of iodonitropropanoates with triethylamine. Alkyl 3-nitroacrylates reacted with cyclohexane-1,3-dione, dimedone, and Meldrum's acid in the presence of *N,N,N*-trimethylanilinium hydroxide (Rodionov's catalyst) in anhydrous methanol to give the corresponding Michael adducts.

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