

عنوان مقاله:

Organocatalytic enantioselective one-pot synthesis of β -aminoketones via Mannich reaction

محل انتشار:

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خلاصه مقاله:

An effective protocol for the asymmetric synthesis of β -amino carbonyl compounds using pyrrolidine based organocatalyst has been developed via one-pot three-component Mannich reaction. The organocatalyst (S)-N-(2,4-dinitrophenyl) pyrrolidine-2-carboxamide 3b confirmed to be the superior organocatalyst in solvent acetonitrile to obtain corresponding products in up to 89% yield and with excellent ee (90%). This organocatalytic reaction reveals productive result with a range of other aldehydes. Aromatic aldehydes having electron withdrawing substituent show the best results. Excellent yields, high enantioselectivity, mild reaction condition, and simple experimental work-up procedure are some of the advantages of this method.

کلمات کلیدی:

Mannich reaction, Organocatalyst, β -amino carbonyl compounds Enantioselectivity, Multicomponent reaction

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