

عنوان مقاله:

The three-component reaction of 2-(2-oxopropyl)isoindoline-1,3-dione with alkyl isocyanides and aromatic carboxylic acids under catalyst-free conditions in water

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خلاصه مقاله:

A green and convenient protocol is described for the preparation of 1-(alkylamino)-3-(1,3-dioxoisoindolin-2-yl)-2methyl-1-oxopropan-2-yl benzoates via one-pot three-componentreaction between 2-(2-oxopropyl)isoindoline-1,3dione, an alkyl isocyanide and an aromaticcarboxylic acid in water at room temperature. The methods used to follow the reactions are TLCand NMR, which indicated that there is no side product and the products were obtained withoutany purification. The structures of the products were deduced from their 1H NMR, 13C NMR and IR spectra. The present methodology offers several advantages such as a simple procedure, catalyst-free, mild reaction .conditions, high yields, and the absence of any volatile and hazardousorganic solvents

کلمات کلیدی: 2-(2)-2 Oxopropyl)isoindoline-1,3-dione; alkyl isocyanide; aromatic carboxylic acid-2

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