

عنوان مقاله:

One-pot synthesis of isoxazole-5(4H)-ones via three-component condensation of β -keto esters, hydroxylamine hydrochloride, and substituted benzaldehydes in the presence of iodine in water

محل انتشار:

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خلاصه مقاله:

In the present work, highly efficient method for the synthesis of 3-substituted-4-arylmethylidene-isoxazol- 5(4H)-one heterocyclic compounds by the three-component reaction between substituted benzaldehydes, β -keto esters, and hydroxylamine hydrochloride under the influence by iodine as commercially available, inexpensive, and easy to handle catalyst has been described. The benefits of this method are good yields, relatively shorter reaction times, simplicity of implementation, using water as the solvent, and respect of the environment

کلمات کلیدی:

.Aqueous media, Iodine, 3-Substituted-4-arylmethylidene-isoxazol-5(4H)-one, Three-component, Greensynthesis

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