

عنوان مقاله:

Reaction of benzothiazole, isoquinoline and phenanthridine with dimethyl acethylenedicarboxylate in the presence of 4- hydroxycoumarine

محل انتشار:

ینجمین کنفرانس بین المللی پژوهش کاربردی در شیمی و مهندسی شیمی با تاکید بر فناوری های بومی ایران (سال: 1397)

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خلاصه مقاله:

isoquinoline phenanthridine dimethyl Three-component reactions involving benzothiazole, and acetylenedicarboxylate in the presence of 4-hydroxycoumarine are described. The reactions proceeded smoothly at room temperature without using any catalyst. The structures of the synthesized compounds have been characterized by the spectral studies

کلمات کلیدی: Aza-heterocycles; Dimethyl acetylenedicarboxylate; 4-Hydroxycoumarine

لینک ثابت مقاله در پایگاه سیویلیکا:

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