

عنوان مقاله:

One-Pot Three Component Synthesis of 2,3-Dihydroquinazolin-4(1H)-ones by a Heterogeneous and Reusable Polyvinyl Alcohol Immobilized Cu(II) Schiff base Complex

محل انتشار:

بیست و ششمین سمینار شیمی آلی ایران (سال: 1397)

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خلاصه مقاله:

One of the most frequently encountered heterocycles in medicinal chemistry is quinazolinone derivatives with wide applications including anticancer, antihypertensive, antidiuretic, anticonvulsant, antibacterial, antihistaminic, antidiabetic, and anti-inflammatory activities [1,2]. 2,3-Dihydroquinazoline derivatives are a class of heterocycles which exhibit biological and pharmaceutical activity and herbicidal agents, as well as plant growth regulators [2]. Also, recently a number of classical methods for the synthesis of 2,3-dihydroquinazolin-4(1H) one have been reported in literature involving homogeneous, heterogeneous, solid acid and transition metal complexes [3]. However, most of the reported methods have certain limitations such as the use of organic solvents, long reaction times, tedious processes, harsh reaction conditions and low yields of product. Thus, developing versatile approaches to synthesize quinazolinone derivatives still remains a highly desired goal in organic synthesis. For sake of notable property of quinazolinone derivatives, herein, we have developed a recoverable and reusable heterogeneous catalyst to overcome some of the above-mentioned impediments by working under mild and green conditions to perform efficiently preparation of 5-substituted quinazolinone derivatives (Fig. 1). In our previous work we have demonstrated the ability of the PVA@Cu(II)-Schiff base complex over efficient preparation of 5-substituent-1H-tetrazoles at room temperature.

کلمات کلیدی:

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