

عنوان مقاله:

One-pot Preparation of ۲,۴,۵-Trisubstituted and ۱,۲,۴,۵-Tetrasubstituted Imidazoles Using Poly(۴-vinylpyridinium Butane Sulfonic Acid) Hydrogen Sulfate, as an Efficient Heterogeneous Poly(ionic Liquid) Solid Acid Catalyst under Solvent-free Conditions

محل انتشار:

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خلاصه مقاله:

One-pot preparation of ۲,۴,۵-trisubstituted and ۱,۲,۴,۵-tetrasubstituted imidazoles has been conducted in the presence of poly(۴-vinylpyridinium butane sulfonic acid) hydrogen sulfate, P(۴VPBSA)HSO₄, as an efficient dual acidic catalyst under solvent-free conditions. Reusability of the catalyst, easy work-up procedure, eco-friendly reaction conditions, short reaction times and high yields of the products illustrate the utility of this approach.

کلمات کلیدی:

Solvent-free, Substituted imidazoles, Poly(ionic liquid), Benzil, Multicomponent reaction

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