

عنوان مقاله:

[BMIm]BF₄-LiCl as an effective catalytic system for the synthesis of dicoumarols]

محل انتشار:

فصلنامه ارتباطات شیمی ایران، دوره 3، شماره 4 (سال: 1394)

تعداد صفحات اصل مقاله: 11

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خلاصه مقاله:

A homogeneous ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate doped with LiCl([BMIm]BF₄-LiCl) was found as catalyst solvents for the synthesis of dicoumarols by the condensation of 4-hydroxycoumarin and aldehyde at 80 °C. In this field, several types of aromatic aldehyde, containing electron-withdrawing groups as well as electron-donating groups, were rapidly changed to the corresponding derivatives in good to excellent yields. Application of this new homogeneous catalyst system offered the advantages of short reaction times, solvent-free conditions, high yields, and easy work-up procedure compared to the conventional methods of the syntheses. The ionic liquid can be recovered for the subsequent reactions and reused without any loss of efficiency.

کلمات کلیدی:

Homogeneous catalyst; 4-hydroxycoumarin; ionic liquid; dicoumarols

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