

عنوان مقاله:

Choline chloride: Y ZnClY catalyzed efficient one-pot regioselective synthesis of dihydrobenzofuro[Y,W-b]benzofuran

محل انتشار:

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خلاصه مقاله:

The reaction of Y-naphthol and also para-substituted phenols with glyoxal in presence of choline chloride: Y ZnClY [ChCl: YZnClY], a deep eutectic solvent (DES), as a green catalyst was studied. The amount of catalyst, solvent type, temperature, and time on the yield of reaction were investigated. It was found that the optimal condition included 1.% mol ratio of catalyst (mol percentage of DES to glyoxal), solvent-free condition (% °C) and the time about one hour. Under these conditions, products are obtained in good yield (A.%). The products were characterized on the basis of FT-IR, 1H-NMR, 1mC-NMR spectra and comparison of melting point with authentic sample. The NMR spectra indicated that of the two probable isomers with an acetal and ether structure; the aforementioned reaction, regionselectively, .furnished compounds with acetal linkage, rather than ether

کلمات کلیدی:

Regioselective synthesis, benzofuro[Y,W-b]benzofuran, Deep Eutectic Solvent, choline chloride: Y ZnClY

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