

عنوان مقاله:

N,N,N,N-tetramethylethylenediaminium-N,N-disulfonic acid chloride as a highly effective catalyst for the synthesis of 4H-pyrano[2, 3-c]pyrazoles, α -carbamatoalkyl- β -naphthols and α -amidoalkyl- β -naphthols

محل انتشار:

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تعداد صفحات اصل مقاله: 10

نویسندگان:

Sharareh Ravanshad - Department of Chemistry, Payame Noor University, PO Box ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

Hakimeh Asvar - Department of Chemistry, Payame Noor University, PO Box ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

Fatemeh Fouladi - Department of Chemistry, Payame Noor University, PO Box ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

Arezo Pourkazemi - Department of Chemistry, Payame Noor University, PO Box ۱۹۳۹۵-۳۶۹۷ Tehran, Iran

خلاصه مقاله:

In this work, N,N,N,N-tetramethylethylenediaminium-N,N-disulfonic acid chloride {[TMEDSA][Cl]₂} has been utilized as a highly effective catalyst in order to promote the following organic transformations under green, solvent-free and mild conditions: (i) the synthesis of 4H-pyrano[2, 3-c]pyrazoles from aromatic aldehydes, 3-methyl-1-phenyl-2-pyrazolin-5-one and malononitrile, (ii) the preparation of α -carbamatoalkyl- β -naphthols from arylaldehydes, β -naphthol and alkyl carbamates, and (iii) the production of α -amidoalkyl- β -naphthols from arylaldehydes, β -naphthol and amides.

کلمات کلیدی:

N,N,N,N-Tetramethylethylenediaminium-N,N-disulfonic acid chloride {[TMEDSA][Cl]₂} Sulfonic acid-functionalized ionic liquid 4H-Pyrano[2, 3-c]pyrazole α -Carbamatoalkyl- β -naphthol α -Amidoalkyl- β -naphthol

لینک ثابت مقاله در پایگاه سیویلیکا:

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