عنوان مقاله:

Phenanthrolin-1-ium trinitromethanide (1,10-PHTNM) as a Nano Molten Salt Catalyst with Y-Aromatic Counter-1,10 ion: Applications for the Synthesis of Organic Compounds

محل انتشار:

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

تعداد صفحات اصل مقاله: 1

نویسندگان:

Mohammad Dashteh - *Department of Organic Chemistry, Faculty of Chemistry, Bu-Ali Sina University, Hamedan ۶۵۱۷۸۳۸۶۸۳, Iran*

Saeed Baghery - *Department of Organic Chemistry, Faculty of Chemistry, Bu-Ali Sina University, Hamedan ۶۵۱۷۸۳۸۶۸۳, Iran*

Mohammad Ali Zolfgol - *Department of Organic Chemistry, Faculty of Chemistry, Bu-Ali Sina University, Hamedan ۶۵۱۷۸۳۸۶۸۳, Iran*

Yadollah Bayat - *Faculty of Chemistry and chemical Engineering, Malek Ashtar University of Technology, Tehran, Iran*

خلاصه مقاله:

Phenanthrolin-1-ium trinitromethanide (1,10-PHTNM) as a novel nano molten slatwith Y-aromatic counter ion-1,10 was synthesized and fully characterized by using various techniquessuch as FT-IR, 1H NMR, 13C NMR, mass, TGA, DTG, XRD, SEM and TEM. A seriesof organic compounds including 1,4-dihydropyrano[2,3-c]pyrazoles, tetrahydrobenzo[b]pyran, pyrano[4,3-b]pyrans, bispyrazole, 1H-pyrazolo[3,4-b]quinolones, hexahydroacridine-1,8-diones and methylenebis(3-hydroxy-5,5-dimethylcyclohex-2-enones) were synthesizedin the presence of described 1,10-PHTNM as a novel and efficient proton sponge nanomolten slat catalyst. These heterocyclces are considerable attention of organic chemists due totheir broad range of pharmaceutical and biological properties containing arisugacins, antimultidrug-resistant, anti-inflammatory [1], photodynamic therapy, inhibitors of human Chk1kinase, spasmolytic, anti-filarial agents [2].

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا: