

عنوان مقاله:

Triethylammonium-N-sulfonic Acid Tetrachloroaluminate (TSAT) as a New Ionic Liquid Catalyst for the Synthesis of [1,2,4]Triazolo[1,5-a]pyrimidines

محل انتشار:

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خلاصه مقاله:

Triethylammonium-N-sulfonic acid tetrachloroaluminate (TSAT) as a new ionic liquid was synthesized and characterized by its FT-IR, ^1H , ^{13}C NMR and mass spectra as well as TG and DTG diagrams. This ionic liquid was employed as a catalyst for the synthesis of [1,2,4]triazolo[1,5-a]pyrimidines-6-carboxamides via one-pot three-component reaction of aromatic aldehydes, acetoacetanilide and 3-amino-1,2,4-triazole under solvent-free conditions at 60°C . The salient features of the present protocol are mild reaction condition, easy isolation of products and clean reaction profiles.

کلمات کلیدی:

Ionic Liquid, Triethylammonium-N-sulfonic acid tetrachloroaluminate (TSAT), [1, 4]Triazolo[1, 5-a] pyrimidines-6-carboxamide, Acetoacetanilide, 3-Amino-1, 2, 4-triazole

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