

عنوان مقاله:

Mesoporous Silica Phenylsulfonic acid (SBA-15-Ph-SO₃H) as an Efficient and Reusable Heterogenous Solid Acid Catalyst for Boc Protection of Amines and Amino Acids at Room Temperature

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1394)

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خلاصه مقاله:

An efficient and rapid protocol for the chemoselective N-Boc protection of various structurally different aryl, aliphatic and heterocyclic amines and amino acids was reported with (Boc)₂O using Mesoporous silica phenylsulfonic acid (SBA-15-Ph-SO₃H) as recyclable and heterogenous solid acid catalyst under solvent free condition at ambient temperature. The catalyst can be easily recovered and reused for ten reaction cycles for protection of amines without considerable loss of activity. The advantages of this method are green, simplicity, easy work-up, chemoselectivity, short reactions times and excellent yields.

کلمات کلیدی:

Nanoreactor, N-Boc protection, Mesoporous material, Solid acid catal

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