

عنوان مقاله:

Synthesis and application of polystyrene-supported GaCl₃ as a new polymeric Lewis acid catalyst

محل انتشار:

چهاردهمین کنگره ملی مهندسی شیمی ایران (سال: 1391)

تعداد صفحات اصل مقاله: 16

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خلاصه مقاله:

Polystyrene-supported GaCl₃ was prepared from polystyrene and gallium trichloride. This reagent was used as a new Lewis acid catalyst for preparation of N-substituted pyrroles by an one-pot condensation reaction of 2,5-hexanedione with amines and diamines. This new protocol has the advantages of easy availability, stability, reusability and eco-friendly of the catalyst, high to excellent yields, simple experimental and work-up procedure

کلمات کلیدی:

Polymer- supported catalyst; Pyrrole; Paal-Knorr condensation reaction; Heterogeneous Lewis acid catalyst

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