عنوان مقاله:

A Journey Towards FeCl۳ Catalysed Synthesis of Multisubstituted Pyrrole

محل انتشار:

مجله علوم دارویی و شیمی, دوره 2, شماره 3 (سال: 1398)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Ramandeep Kaur - *School of Pharmaceutical Sciences, Apeejay Stya University, Sohna-Palwal Road, Sohna, Gurgaon, Haryana-۱۲۲۱۰۳, India*

Kapil Kumar - *Department of Pharmaceutical Chemistry, Indo-Soviet Friendship College of Pharmacy (ISFCP), Moga,Punjab-۱۴۲۰۰۱, India*

خلاصه مقاله:

An efficient procedure was developed for the synthesis of different derivatives of ۳,۴-disubstituted pyrrole using TosMIC with ethyl cinnamate in DMF using lithium hydroxide monohydrate as a base. Further, trisubstituted pyrrole was synthesized using nitrostyrene, ethyl-propiolate and benzylamine in toluene as a reaction medium. This reaction was catalysed by lewis acid FeCl۳. This strategy was further modified to synthesized tetra and penta substituted pyrrole using ethanol as a reaction medium keeping other conditions intact. This method is very economical and was successfully utilized for the synthesis of its derivatives with moderate to good yields.

کلمات کلیدی:

Pyrrole, TosMIC, FeCl۳, Cyclization, Lewis acid, Ethanol