

عنوان مقاله:

A Simple, Convenient and Eco-Friendly Method for the Synthesis of 2,4,5-trisubstituted-1H-imidazoles Catalyzed by Vitamin B12 Under Solvent-Free Conditions

محل انتشار:

اولین کنگره بین المللی شیمی و نانو شیمی از پژوهش تا فناوری (سال: 1397)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

A simple, highly efficient and eco-friendly protocol for the synthesis of 2,4,5-trisubstituted-1H-imidazoles via one-pot three component condensation of benzil, aldehydes and ammonium acetate under solvent-free conditions has been achieved utilizing vitamin B12 as catalyst. This methodology has number of advantages such as: use of green and nonhazardous catalyst, clean work up, solvent-free conditions, short reaction times, high yields and no need to column chromatography.

کلمات کلیدی:

Imidazole, Vitamin B12, Three component reaction, Solvent-free

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<https://civilica.com/doc/814388>

