

عنوان مقاله:

Application of 4-(dimethylamino)pyridine as a base catalyst in the diastromerselective synthesis of high functionalized cyclohexanones in a pseudothree-component reaction

محل انتشار:

سومین کنفرانس کاتالیست انجمن شیمی ایران (سال: 1401)

تعداد صفحات اصل مقاله: 4

نویسندگان:

Mahla Sheikhveisi - Department of Chemistry Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran

Nourallah Hazeri - Department of Chemistry Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran

Mojtaba Lashkari - Department of Chemistry Faculty of Sciences, University of Velayat, Iranshahr, Iran

Homayoun FaroughiNiya - Department of Chemistry Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran

Maryam Fatahpour - Department of Chemistry Faculty of Sciences, University of Sistan and Baluchestan, Zahedan, Iran

خلاصه مقاله:

Pseudo-three-component synthesis of N,N'-diaryl-2-aryl-6-hydroxy-6-methyl-4-oxocyclohexane-1,3-dicarboxamide derivatives (3a-g) was performed by the reaction of acetoacetanilide and aromatic and aliphatic aldehydes with 4-(dimethylamino)pyridine (DMAP) as a base catalyst. This reaction proceeded gently in a reaction vessel at 80 °C under solvent-free conditions. Among the index features introduced in this research, we can mention the short reaction time, simple and easy separation and purification of products without the use of chromatographic columns in the synthesis of this group of highly substituted cyclohexanones.

کلمات کلیدی:

4-(Dimethylamino)pyridine (DMAP) catalyst, Pseudo-three-component, Highly substituted cyclohexanone

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1523711>

