عنوان مقاله:

Isolation and characterization of bis(Y-ethylheptyl) phthalate from Cynodon dactylon (L.) and studies on the catalytic activity of its Cu(II) complex in the green preparation of \(\omega_1, \Lambda-\text{dioxo-octahydroxanthenes}\)

محل انتشار:

فصلنامه ارتباطات شيمي ايران, دوره 8, شماره 3 (سال: 1399)

تعداد صفحات اصل مقاله: 16

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خلاصه مقاله:

Bis(Y-ethylheptyl) phthalate is an anti-oxidant and anticancer compound that was extracted from the Cynodon dactylon plant stem extract and fully identified and characterized by FTIR, CHN, \(\mathbb{H}\)NMR, \(\mathbb{H}\)CNMR, along with various \(\mathbb{P}\)D NMR techniques. The phthalate compound was modified and functionalized by polyethylene glycol (PEG) chains followed by complexation to Cu(II) ions. The resultant complex was applied as an efficient and strong recyclable homogeneous catalyst for the preparation of \(\mathbb{I}\),\(\Lambda\)-dioxo-octahydroxanthenes under mild conditions. The homogeneous catalyst could be recovered and reused for several times

کلمات کلیدی:

xanthene, copper complex, Trans-esterification, Homogeneous catalyst

لینک ثابت مقاله در پایگاه سیویلیکا:

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