عنوان مقاله:

Twin deep eutectic mixtures of gabapentin and citric acid: Controlledselective synthesis of 1, A-dioxooctahydroxanthenes, FHbenzo[b]pyrans

محل انتشار:

پنجمین کنگره ملّی شیمی و نانوشیمی از پژوهش تا فناوری (سال: 1401)

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نویسنده:

Saeedeh Toorchi Roudsari - Radiation Application Research School, Nuclear Science and Technology Research Institute

خلاصه مقاله:

Two deep eutectic mixtures of gabapentin and citric acid have been detected. These twinmixtures, irrespective of having different compositions, melt at close temperatures and slight differencescan be noticed in their thermogravimetric and differential calorimetric curves. Yet, they impose differentselective promotions on the reaction malononitrile, between arylaldehyde, dimedone. As the reactionmixture selectively gives tetrahydrobenzo[b]pyran-YH-ones in Y/I ratio of gabapentin/citric acid eutecticmelt and majorly yields 1, A-dioxooctahydroxanthenes in \/Y ratio of gabapentin/citric acid under similarconditions. All of the reactions were carried out without further hazardous organic solvents, and theproducts were simply isolated and purified, and deep eutectic .solvents were easily reused

کلمات کلیدی: Deep eutectic solvent, Heteroaromatic compound, Ionic liquid, Organic solvent

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