

عنوان مقاله:

Synthesis of a new bis thi aza crown compound

محل انتشار:

همایش منطقه ای شیمی (سال: 1389)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Macrocyclic diamides and corresponding aza crown compounds and dimers form have gained a great deal of attention due to their wide applications in nano technology, waste water treatment, nuclear energy, chemistry, biology, medical, anti HIV, anti bacterial, anti biotic, industrial uses [1,2]. In this research work we wish to report synthesis new bis thia aza crown as carrier nano drugs. In this research work bis phenole (1) gained by reaction p-Cresol with sulfur dichloride in 45% yield. Treatment of bisphenole (1) with methyl chloroacetate in the presence of K₂CO₃ and KI at refluxed in dry acetone gave dimethyl ester (2) in 98% yield. Macrocyclic diamide (3) in 70% yield was prepared by diamidation of diester (2) with diethylentriamine, and then purified with recrystallization from methanol. Bis crown ether was synthesized by reaction of macrocycle (3) and E-pent-2-enediyl dichloride in 60% yield. The structures of these compounds were confirmed by IR, ¹H NMR, ¹³C NMR and elemental analysis.

کلمات کلیدی:

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