

عنوان مقاله:

Synthesis of new poly macrocycle compound by grafting of diamine to dialdehyde starch

محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

The starch polymer due to its natural origin, availability, mechanical characteristics, being biodegrading and biocompatible and low price has a potential for the different purposes. However, starch is a hydrophilic polymer that has a low vulnerability and high sensitivity to humidity. In this project, the new starch Schiff base was prepared under mild condition. The first step starch converted to dialdehyde starch and then poly macrocycle starch was synthesized via a condensation reaction with N1, N2 – bis (3-aminophenyl)-1, 3-propan diamine. The structure of the product was investigated by FT-IR and ¹HNMR spectra.

کلمات کلیدی:

starch, Schiff Base, diamine, poly macrocycle

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