

عنوان مقاله:

Calculation of Monomer Reactivity Ratios by Using In Situ Quantitative ^1H NMR Monitoring

محل انتشار:

دهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1391)

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خلاصه مقاله:

On-line ^1H NMR kinetic experiments have been successfully used for the kinetic study of free radical polymerization. The quantitative in situ NMR analysis is a new methodology which is described for the determination of the reactivity ratios [1]. On-line ^1H NMR experiments let us to calculate individual and overall monomer conversions at the same time, as well as the comonomer mixture and copolymer chain compositions as a function of reaction progress. This is one of the advantages of on-line ^1H NMR technique in comparison with the off-line techniques [2, 3]. This paper presents studies on the copolymerization reactions of methacrylic acid (MAA) and ethyl acrylate (EA).

کلمات کلیدی:

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