

عنوان مقاله:

Investigation of Multi Functional Crosslinkers on Poly(acrylic acid) Microgels Prepared via Precipitation polymerization

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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خلاصه مقاله:

Novel poly (acrylic acid) microgels were prepared by using multi functional cross-linkers and acrylic acid (AA) via precipitation polymerization. The properties of these microparticles exhibit a strong dependence on the cross-linker structure. Capability of solvent absorbency and viscosity enhancement demonstrated that the structure of samples depend very strongly number of functional and number of hydrophobic group of cross-linkers. The gel content values indicate that uncross-linked oligomers (i.e., low soluble fraction) are diminished as the number of functionality is increased. The glass transition temperature is closely depend on cross-linker density

کلمات کلیدی:

Multi functional Cross-linkers, network properties, Poly (acrylic acid) Microgels, precipitation polymerization

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