

Characterization of Acrylic Acid Sulfur Dioxide Copolymers by Carbon- 13 NMR Spectroscopy

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ABSTRACT

¹³C-NMR of acrylic acid (A)-SO₂ (S) random copolymers prepd. at low temps. in various solvents allowed detn. of the probability of occurrence of the 5 possible triad structures in the polymer chain. For copolymers prepd. in DMF, the order and probability of occurrence of the triads were AAA, .55; AAS, 0.15; SAA, 0.15; ASA, 0.15; and SAS, 0.00.