

# **Synthesis and solution properties of a betaine-sulfur dioxide polyampholyte**

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## **ABSTRACT**

The pyrrolidinium cyclized copolymer (I) of N,N-diallyl-N-(carbethoxymethyl)-N-methylammonium chloride and SO<sub>2</sub> was synthesized in excellent yield. I on acidic hydrolysis readily gave a polyampholyte. The soln. properties of these polymers are discussed in detail. The polyampholyte was insol. in water but dissolved readily in the presence of low mol. wt. common salts. The polyampholyte shows "anti-polyelectrolyte" behavior; the viscosity of the polyampholyte increases upon increasing the ionic strength of its aq. solns.