

Synthesis and solution properties of a quaternary ammonium polyampholyte. Ali, Sk. Asrof; Rasheed, Asif; Wazeer, Mohammed I. M.. Chemistry Department, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. *Polymer* (1999), 40(9), 2439-2446. Publisher: Elsevier Science Ltd.

Abstract

The quaternary ammonium salt, N,N-diallyl-N-carboethoxymethyl-N-methylammonium chloride (7), has been synthesized in excellent yield. The monomer (7), on polymn. in water soln. using ammonium persulfate as an initiator, afforded the polyelectrolyte 8. The polyelectrolyte (8), on acidic hydrolysis, gave the polyampholyte 9 in excellent yield. The soln. properties of these polymers are discussed in detail. The polyampholyte 9 showed "antipolyelectrolyte" behavior.