RESUMES - PREPRINTS

22 - 26 Juin 1986
Blois - France

Par ouverture de cycles
Sur la polymérisation
5e Symposium International
C.N.R.S. IUPAC G.F.
Introduction

The formation of micelles in aqueous solutions is a fundamental concept in colloid science. Micelles are aggregates of surfactants that form spontaneously in solution at a critical micelle concentration (CMC). They consist of a hydrophobic core surrounded by a hydrophilic shell, which is crucial for their stability and solubilization of hydrophobic substances.

Abstract:
A series of reactions between polystyrene and potassium hydroxide was employed to prepare a macroscopic micelle solution. Hydroxyl content of the micelles was determined using Fourier transform infrared spectroscopy.

Variations in size and shape of micelles were studied using dynamic light scattering. These variations were attributed to changes in the temperature and concentration of the solution.

SYNTHESIS AND REACTIONS OF ULTRAFINE POLYDISPERSE SYSTEMS

REACTION SCHEME

Through these reactions, the formation of micelles in the synthesis of polymeric micelles is demonstrated.

C 17
L. Snyder et al.