

# **Analysis of Residual AMPS<sup>®</sup> Monomer and Other Monomers in Latex and Polymeric Gels by Ion Chromatography**

**N. Buxton and G. Marks**

Lubrizol Ltd., Lubrizol International Laboratories  
PO Box 88, Belper, Derby, DE56 1QN

## **Abstract**

The determination of residual monomer at low detection level is an increasingly important issue for suppliers to the personal care, cosmetics and food packaging industries.

Separation methods of the analyte monomers from latex and polymeric gels are discussed. The monomers were analysed by ion chromatography which was found to give good resolution and detection levels down to below 1 ppm. Lubrizol is working closely with industry partners using the generated data to ensure products comply with regulatory requirements in the personal care and food packaging markets.

The method offers possibilities for the monitoring of conversion and obtaining kinetic data in solution polymerisation. The procedure is effective for the qualitative and quantitative analysis of charged species in aqueous environments. Indirectly it yields information regarding the incorporation of functional monomers into the latex particles.