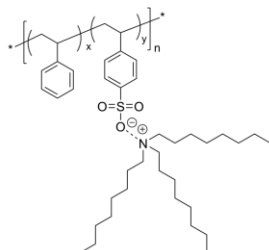


Sample Name: Poly(styrene-co-4-trioctylammonium styrene sulfonic acid)

Sample #: P42583-SSSO3N-TriOct

Structure:



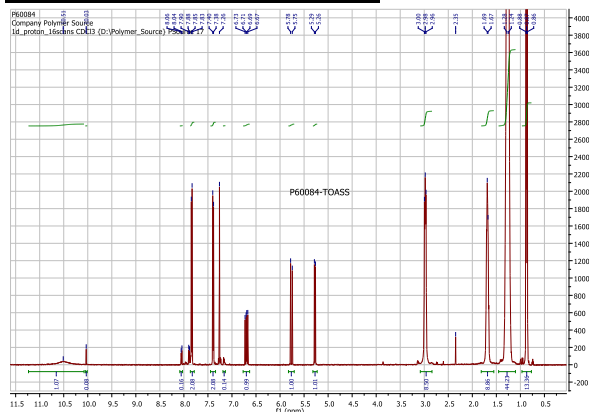
Composition:

Mn x 10 ³	Mole% of SO3N_Octyl	PDI
19	3 %	1.04

Synthesis Procedure:

Poly(styrene-co-4-styrene sulfonic acid) is synthesized by copolymerization of Styrene with trioctylammonium-4 styrene sulfonate partially sulfonation of monodispersed polystyrene and the reaction scheme is shown below.

HNMR of Trioctylammonium -4-styrene sulfonate (TOASS) monomer:



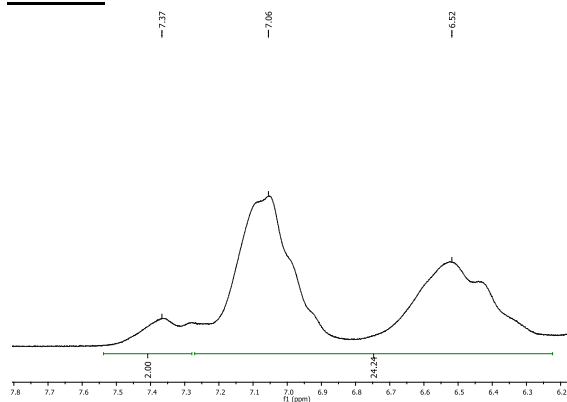
Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

Solubility:

The polymer is soluble in CHCl₃, acetone, DMSO and methanol depending on the sulfonation degree.

¹HNMR spectrum of the Sample runs in DMSO:



SEC elugram of Sample:

