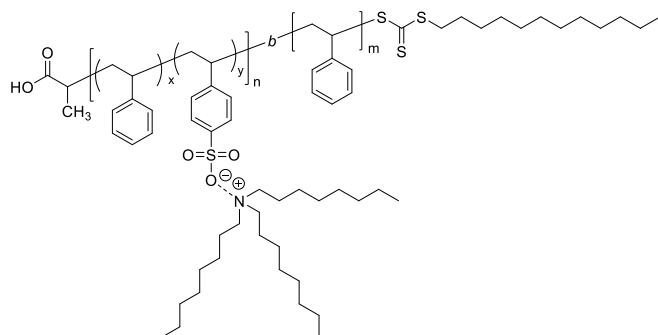


Product Name:

Poly(styrene-*co*-4-trioctylammonium styrene sulfonic acid)-*block*-polystyrene

Product # **P42552A-SSSO3NtOctran-b-S**

Structure:

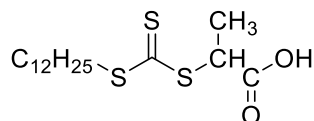


Composition:

$M_n \times 10^3$ (g/mol) [SSSO3NtOctran- <i>b</i> -S]	M_w/M_n	Sulfonation (1 st block):
15.5-14.0	1.02	6 mol%

Synthesis Procedure:

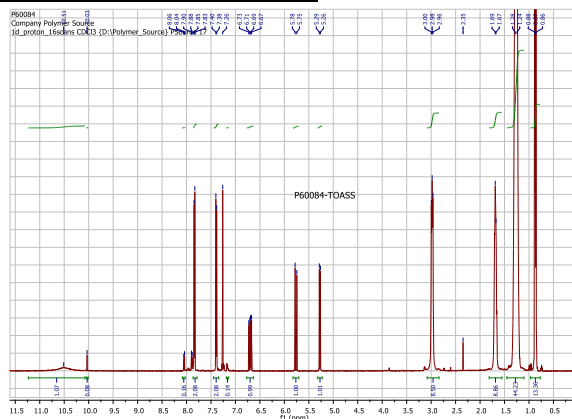
The polymer was synthesized by RAFT, using the following RAFT reagent:



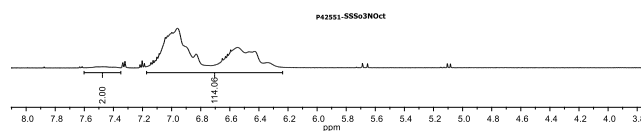
Characterization:

The product was validated by size exclusion chromatography (SEC, using triple detection method) and proton NMR spectroscopy analysis.

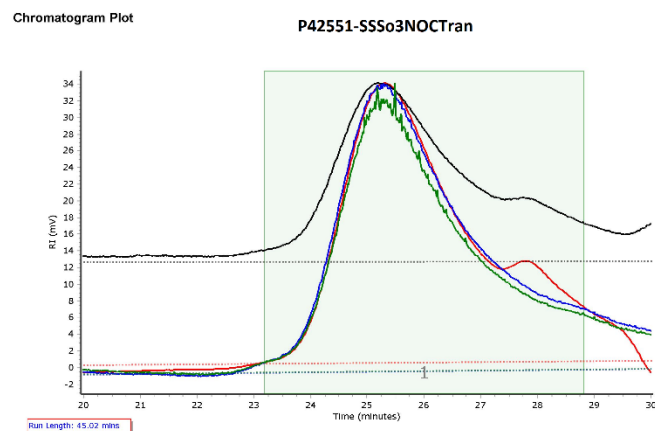
¹H NMR spectrum of trioctylammonium-4-styrene sulfonate (TOASS) monomer:



¹H NMR spectrum of the 1st block after sulfonation:



SEC of the 1st block (copolymer):



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)
Peak 1	15986	15566	15597	15627	15657	15638

SEC of the diblock copolymer (final product):

