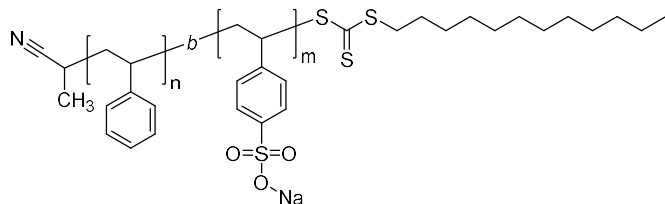


**Sample Name:** Poly(styrene)-b-poly (4-styrene sulfonic acid sodium salt)

**Sample #:** P60091B-S-SSO3Na

**Structure:**



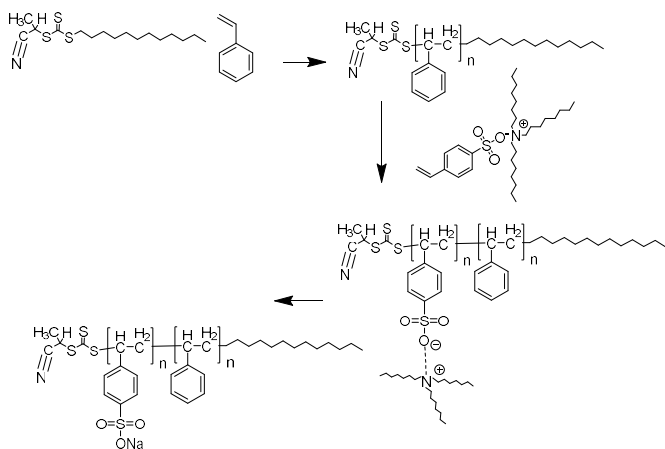
**Composition:**

$M_n \times 10^3$ PS-b-PSSO3Na	PDI
7.0-b-8.0	1.16

**Synthesis Procedure:**

The polymer was synthesized by RAFT polymerization process.

The following reaction scheme shows how the product was prepared:



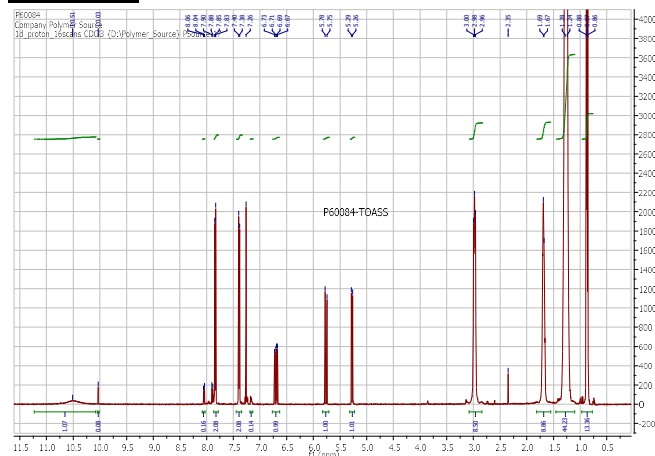
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) in DMF as an eluent and HNMR.

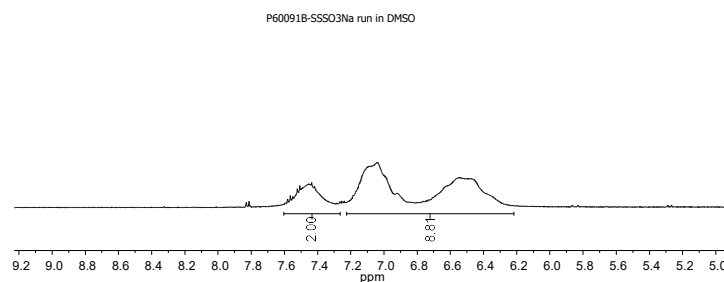
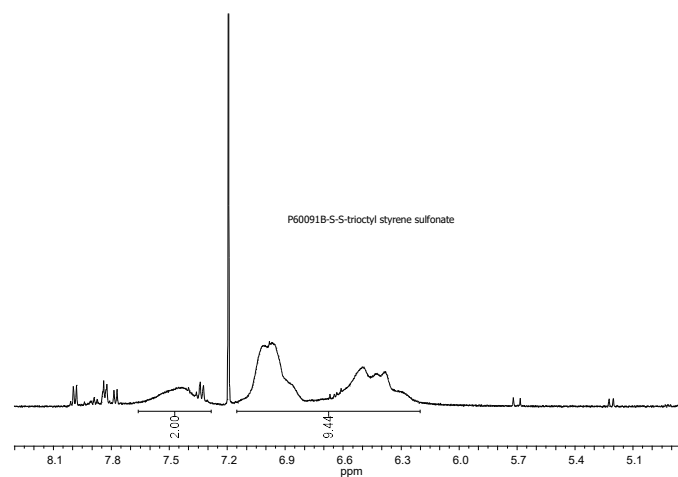
**Solubility:**

The polymer is soluble in DMSO.

**HNMR of Trioctylammonium -4-styrene sulfonate monomer:**

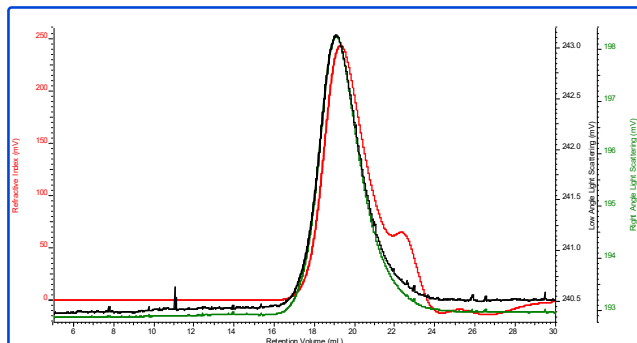


**HNMR spectrum of the Sample:**



**SEC elugram of the first block:**  
**p60091-S first Block**

<b>dn/dc</b>	0.1650
<b>Flow Rate</b>	0.7000
<b>Solvent</b>	DMF with LiBr
<b>Method</b>	PSS column-PMMA60K-Jan3-2019-0003.vcm

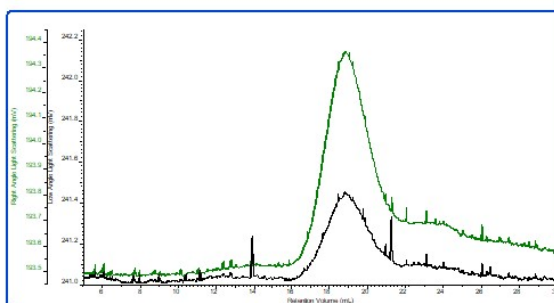


Sample	Mn	Mw	Mp	Mw/Mn
P60091-Styrene	7,130	7,774	7,477	1.090

**SEO elugram of PStyrene-b-4-Trioctyl ammonium**  
**Styrene sulfonate:**

**P60091-** Styrene-4Trioctyl ammonium sulfonate

<b>dn/dc</b>	0.1650
<b>Flow Rate</b>	0.7000
<b>Solvent</b>	DMF with LiBr
<b>Method</b>	PSS column-PMMA60K-Jan3-2019-0003.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P60091B_1_2019-06-	7,717	8,933	8,251	1.158

To check the Mw/Mn and composition calculated from HNMR.