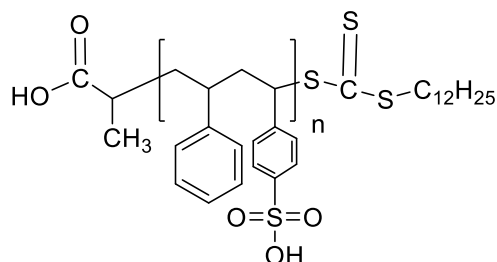


**Sample Name: POLY(STYRENE-CO-4-STYRENE SULFONIC ACID)-RAFT-agent terminated**

**Sample #: P42596F-SSSO3Hran**

**Structure:**

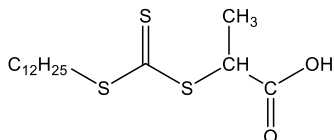


**Composition:**

| Mn $\times 10^3$ | PDI  |
|------------------|------|
| 41.5             | 1.03 |
| Sulfonation      | 44%  |

**Synthesis Procedure:**

The polymer is prepared by RAFT polymerization process using following RAFT reagent:

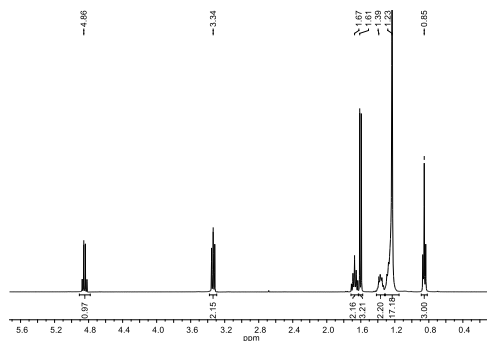


Chemical Formula:  $C_{16}H_{30}O_2S_3$   
Molecular Weight: 350.59

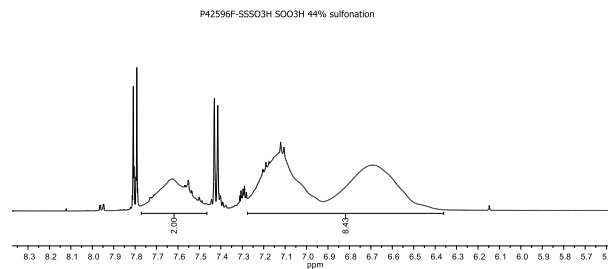
**Characterization:**

The molecular weight and polydispersity index(PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

**$^1H$ -NMR spectrum of the RAFT ( $CDCl_3$ ):**

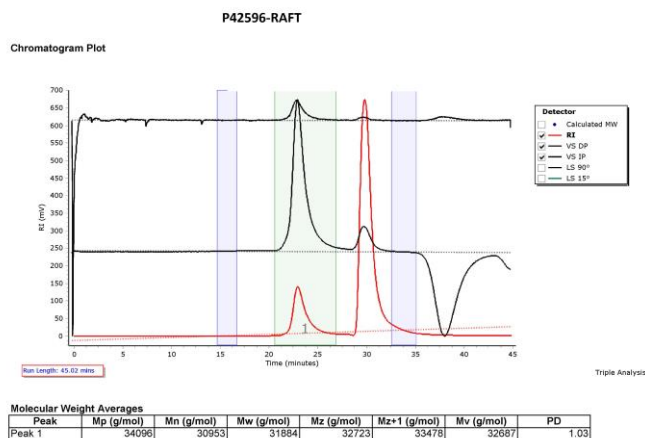


**$^1H$ -NMR spectrum of the sample:**



**SEC elugram of the Sample:**

Agilent GPC/SEC Software



% sulfonation: 44% Mn: 41,500