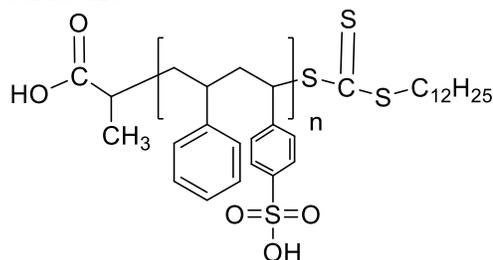


Sample Name:

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

Sample #: **P42596C-SSSO3Hran**

Structure:

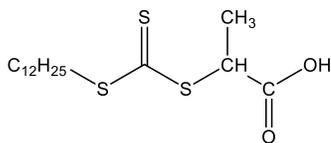


Composition:

$M_n \times 10^3$	PDI
41.5	1.03
Sulfonation	45%

Synthesis Procedure:

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

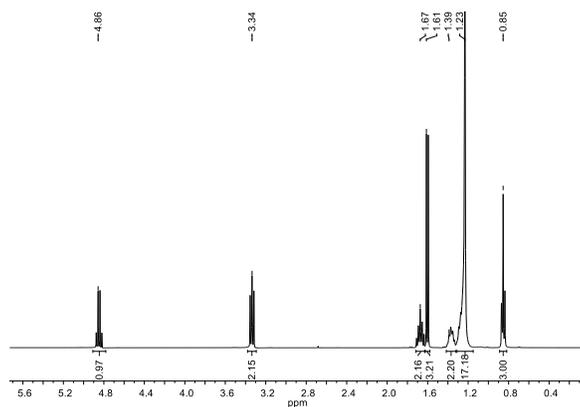


Chemical Formula:  $C_{16}H_{30}O_2S_3$   
Molecular Weight: 350.59

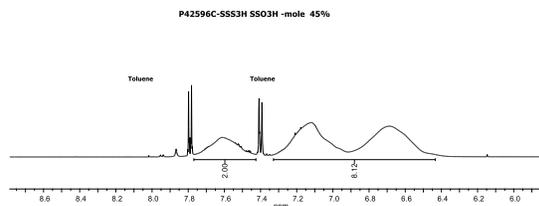
Characterization:

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 ( $CDCl_3$ ):**

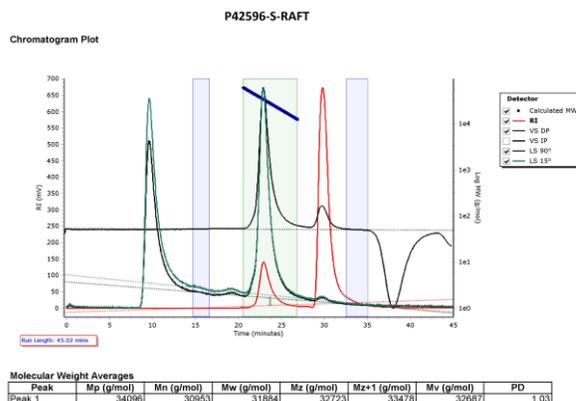


**$^1H$ -NMR spectrum of the sample:**



**SEC elugram of the Sample:**

Agilent GPC/SEC Software



% sulfonation: 45% Mn: 41500