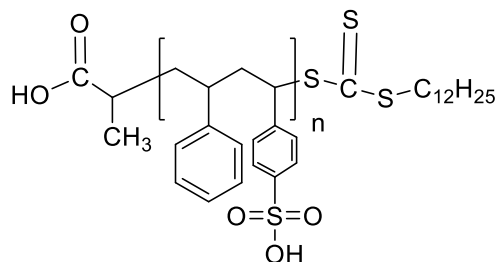


Sample Name:

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

Sample #: **P42596D-SSSO3Hran**

**Structure:**

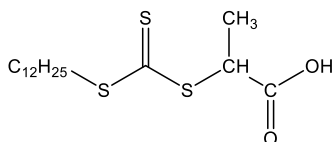


**Composition:**

$M_n \times 10^3$	PDI
34.5	1.03
Sulfonation	14%

**Synthesis Procedure:**

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



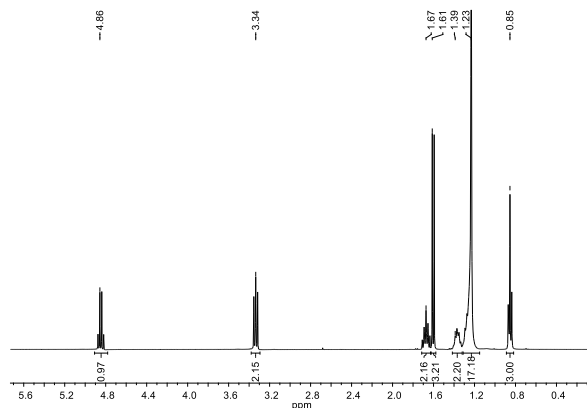
Chemical Formula:  $C_{16}H_{30}O_2S_3$

Molecular Weight: 350.59

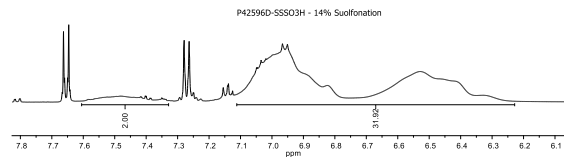
**Characterization:**

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:**

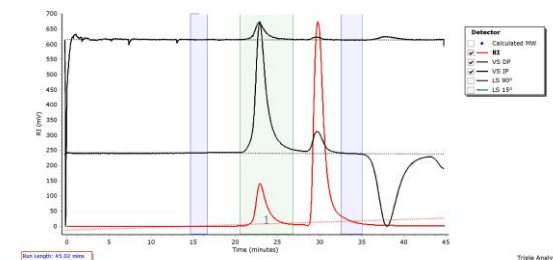


**SEC elugram of the Sample:**

Agilent GPC/SEC Software

P42596-RAFT

Chromatogram Plot



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	34096	30553	31984	32723	33478	33587	1.03

% sulfonation: 14% Mn: 34,500