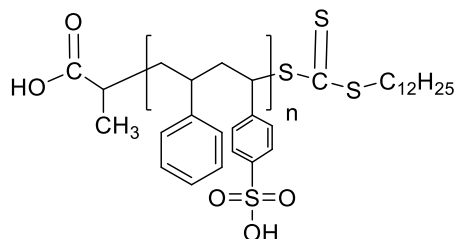


Sample Name:

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

Sample #: **P42596E-SSSO3Hran**

Structure:

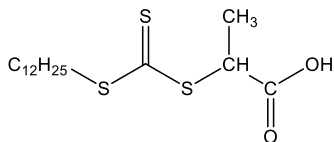


Composition:

$M_n \times 10^3$	PDI
37.5	1.03
Sulfonation	20%

Synthesis Procedure:

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

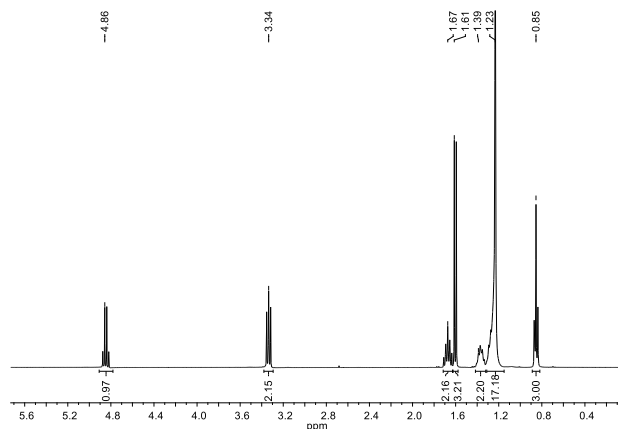


Chemical Formula: $C_{16}H_{30}O_2S_3$
Molecular Weight: 350.59

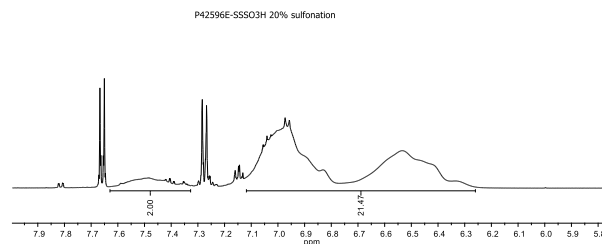
Characterization:

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:

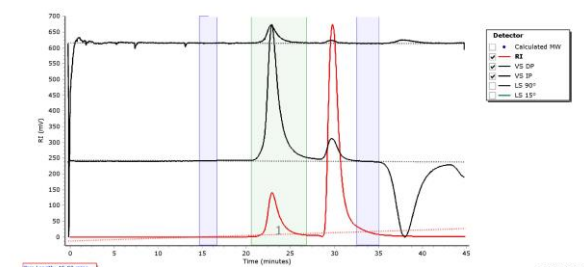


SEC elugram of the Sample:

Agilent GPC/SEC Software

P42596-RAFT

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mw (g/mol)	PDI
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Peak 1	34096	30953	31884	32723	33478	32687	1.03
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Processing Parameters

% sulfonation: 20% Mn: 37,500