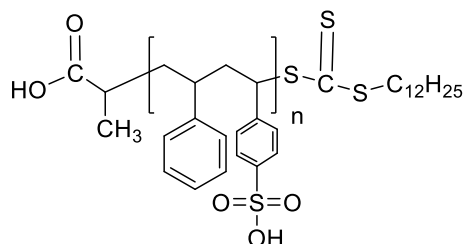


Sample Name:

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

Sample #: **P42596B-SSSO3Hran**

Structure:

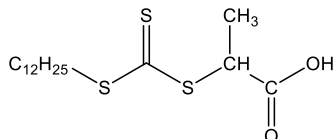


Composition:

Mn $\times 10^3$	PDI
39.5	1.03
Sulfonation	36%

Synthesis Procedure:

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



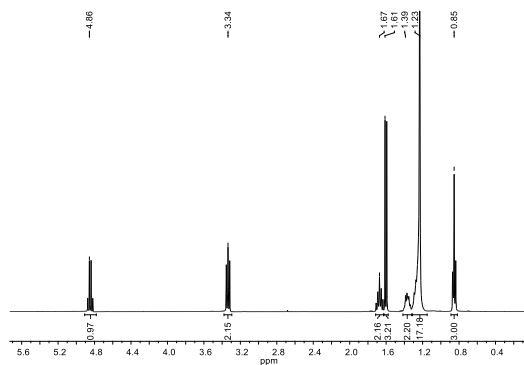
Chemical Formula: $C_{16}H_{30}O_2S_3$

Molecular Weight: 350.59

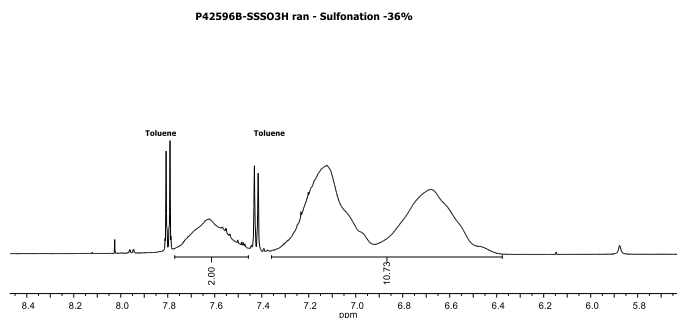
Characterization:

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:

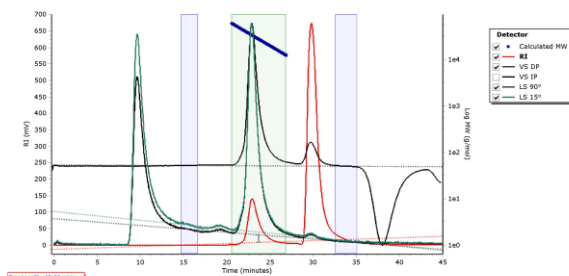


SEC elugram of the Sample:

Agilent GPC/SEC Software

P42596-S-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	30953	31854	32723	33478	33587	1.03

% sulfonation: 36% Mn: 39,500