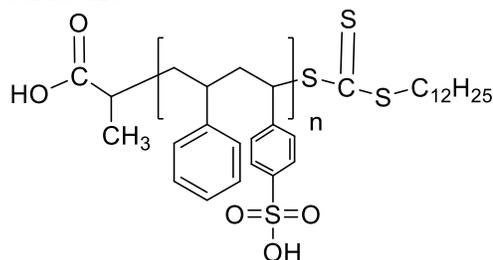


Sample Name:

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

Sample #: **P42596D-SSSO3Hran**

Structure:

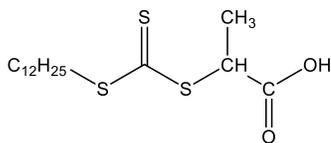


Composition:

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

Synthesis Procedure:

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

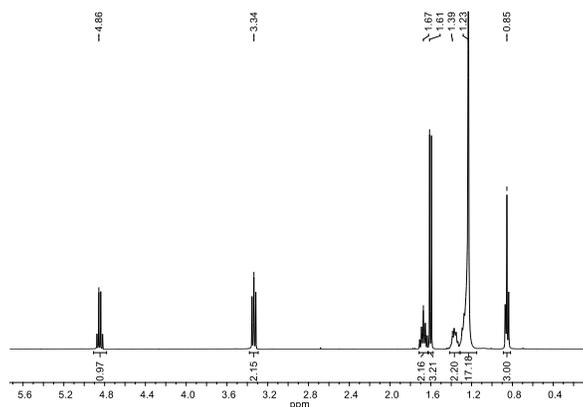


Chemical Formula: $C_{16}H_{30}O_2S_3$
Molecular Weight: 350.59

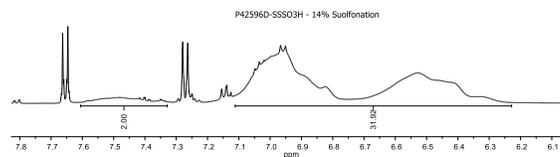
Characterization:

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 ($CDCl_3$):

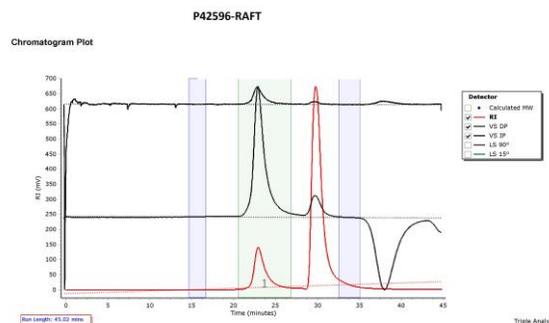


1H -NMR spectrum of the sample:



SEC elugram of the Sample:

Agilent GPC/SEC Software



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	31984	32723	33478	33667	1.03

% sulfonation: 14% Mn: 34,500