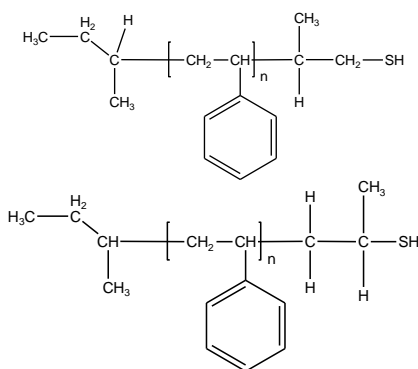


Sample Name: Thiol Terminated Polystyrene

Sample # P42098-SSH

Structure:

Route 2: (possible architectures)



Composition:

$M_n \times 10^3$ (g/mol)	Mw/Mn
57.0	1.08

-SH functionality	>95%
Tg	53 °C

Synthesis:

The polymer was synthesized by direct termination of anionic living polymerization of styrene by ethylene sulfide or propylene sulfide. Polymerization of styrene by sec-BuLi in THF at -78°C and termination by purified ethylene sulfide or propylene sulfide.

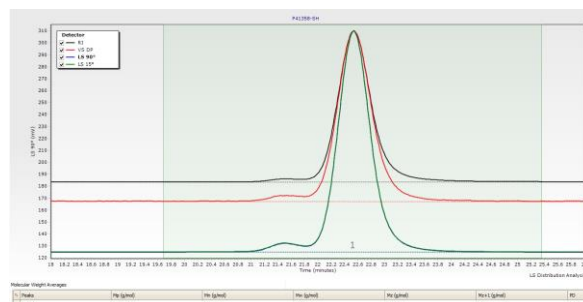
Characterization:

The molecular weight and polydispersity index of the hydroxyl terminated polymer were determined before functionalization with thiol by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with UV-vis and refractive index detectors. Polymer functionality was verified by oxidation of thiol to disulfide.

Functionality:

It was determined by oxidation reaction with iodine.

SEC elugram of the Sample:



DSC thermogram of the Polymer:

