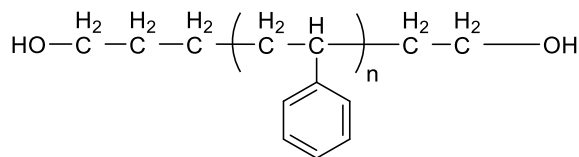


Sample Name:

α,ω -Di(hydroxy)-terminated polystyrene

Sample#: P43511-S2OH

Structure:

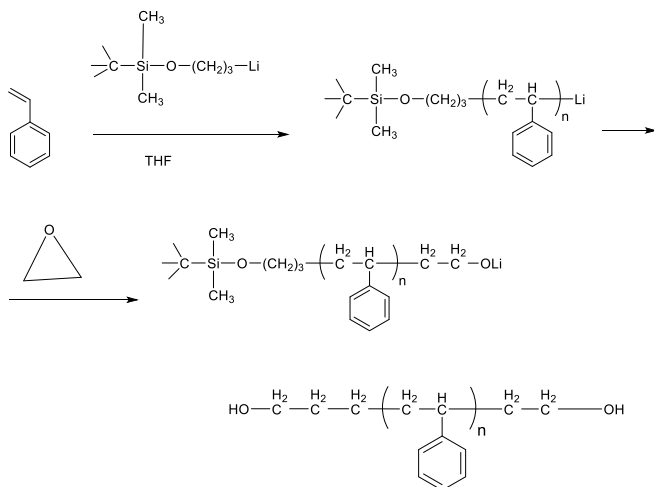


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
6.0	1.19

Synthesis procedure:

α,ω -Di(hydroxyl)-terminated polystyrene was prepared by living anionic polymerization of styrene using a hydroxyl-protected initiator, followed by termination with ethylene oxide. The scheme of reaction is presented below:



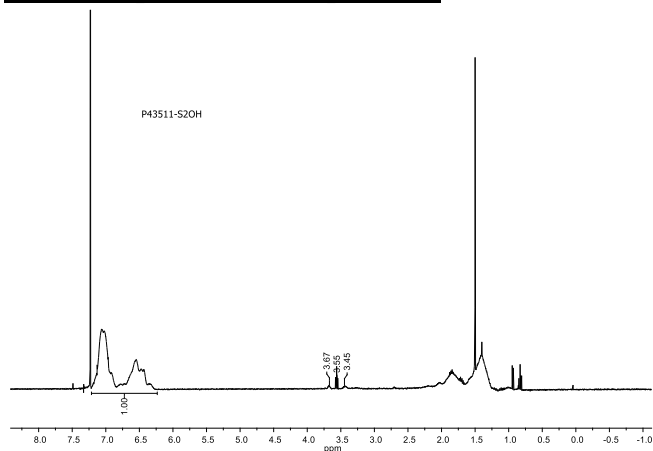
Characterization:

End-group functionality of the polymer was confirmed by ^1H -NMR spectroscopy. The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detectors.

Solubility:

Polystyrene is soluble in toluene, THF and chloroform. It precipitates from cold methanol, and water.

^1H -NMR spectrum of the polymer:



SEC elugram of the polymer:

