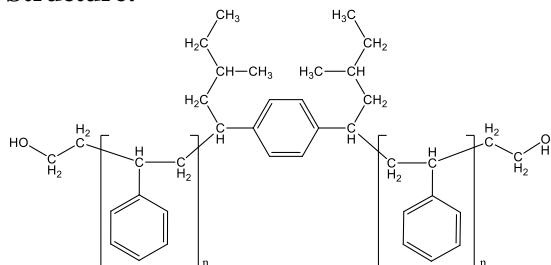


Sample Name:

Poly(styrene), α,ω -bis(hydroxy)-terminated
(with *p*-[bis-2-sec-butyl ethyl]benzene group in the middle of polymer chain)

Sample #: P43187-S2OH

Structure:

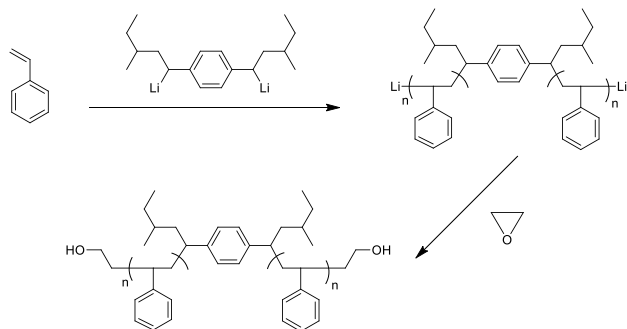


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
2.2	1.01

Synthesis procedure:

α,ω -Di(hydroxyl)-terminated polystyrene was prepared by living anionic polymerization of styrene using a bifunctional 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, chloroform. It precipitates from cold methanol, and water.

SEC elugram of the polymer:

