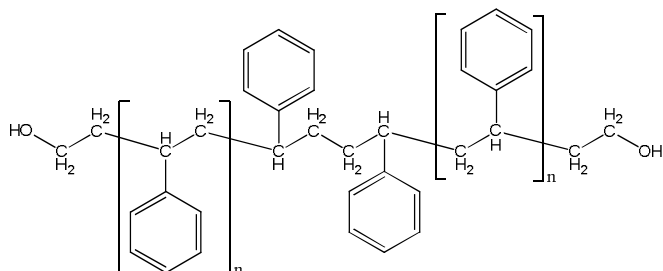


Sample Name:

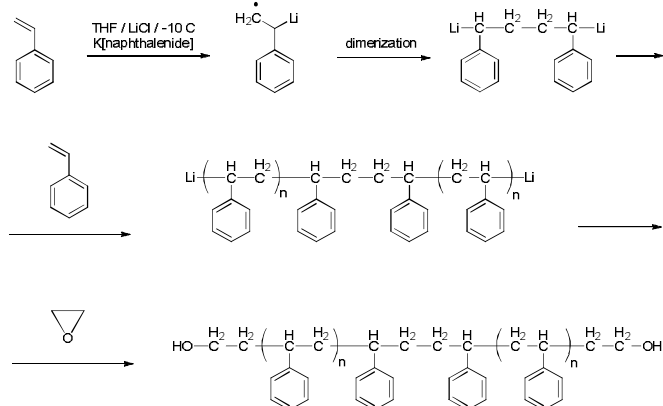
α,ω -Di(hydroxy)-terminated polystyrene,
(with styrene dimer group in the middle of polymer chain)

Sample # P18072-S2OH**Structure:****Composition:**

$M_n \times 10^3$ (g/mol)	M_w/M_n
1,900.0	1.15

Synthesis procedure:

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

**Characterization:**

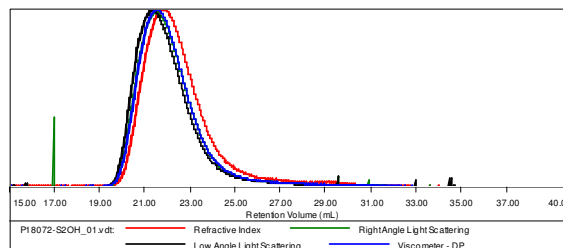
The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detectors.

Solubility:

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

SEC elugram of the polymer:**Sample ID:****P18072-S2OH**

Concentration (mg/mL)	1.1559
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-May-2013-0000.vc.m
Column Set	3x PL 1113-6300
System	System 1



Sample	M_n	M_w	M_p	M_w/M_n	IV
P18072-S2OH_01.vdt	1.910 e 6	2.203 e 6	2.199 e 6	1.153	10.2345

