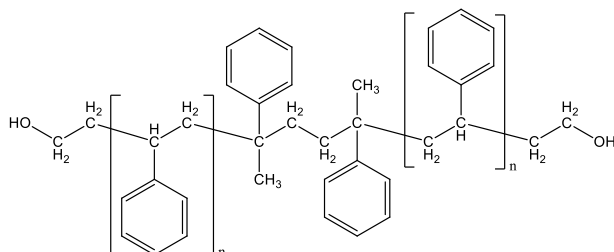


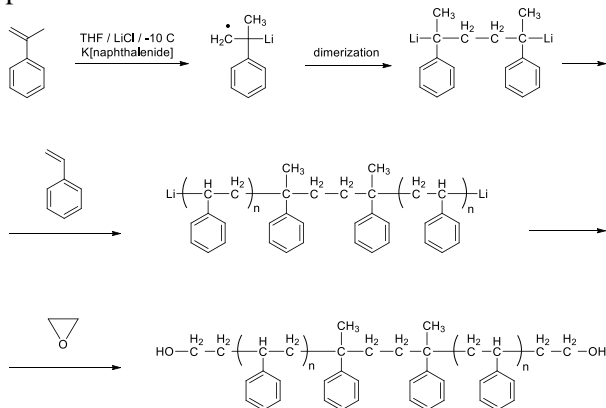
**$\alpha,\omega$ -Di(hydroxy)-terminated polystyrene**  
(with  $\alpha$ -methyl styrene dimer group in the middle of polymer chain)

**Structure:**



$M_n \times 10^3$ (g/mol)	$M_w/M_n$
8.0	1.2

$\alpha,\omega$ -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:



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.

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

P5306A-S2OH

