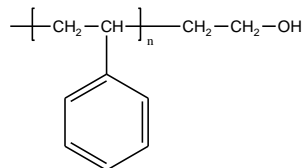


Sample Name:

ω -Hydroxy Terminated Polystyrene

Sample #: **P4715- SOH**

Structure:

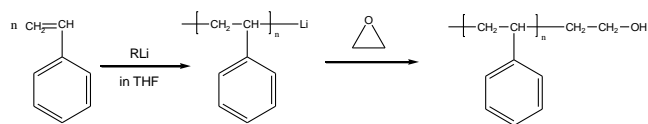


Composition:

$M_n \times 10^3$	PDI
32.0	1.10

Synthesis Procedure:

α,ω -Hydroxy 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 the reaction is illustrated below:



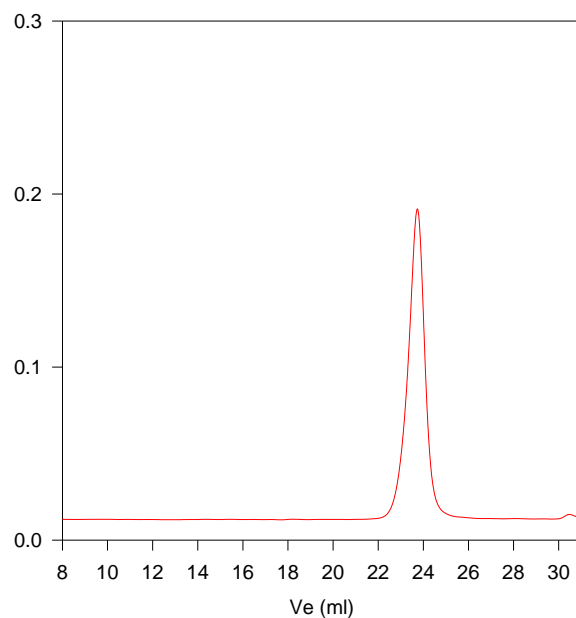
Characterization:

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

Solubility: Polymer is soluble in toluene, THF, CHCl_3 and can be precipitated in water and cold methanol.

SEC of Sample:

P4715-SOH



Size exclusion chromatography of ω hydroxy Terminated polystyrene
 $M_n=32000$, $M_w=35200$, $PI=1.10$, functionality>99%