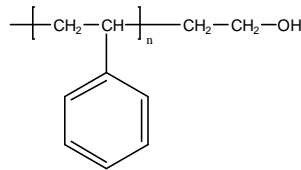


Sample Name:
?-Hydroxy Terminated Polystyrene

Sample #: P10138-SOH

Structure:

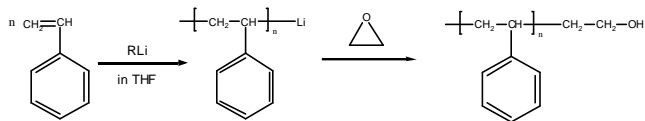


Composition:

Mn x 10 ³	PDI
13.5	1.06
T _g (°C)	91

Synthesis Procedure:

?-hydroxy terminated polystyrene was prepared by living anionic polymerization. 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. Polymer functionality was determined by titration with NaOH solution using phenolphthalein as the indicator.

Thermal analysis:

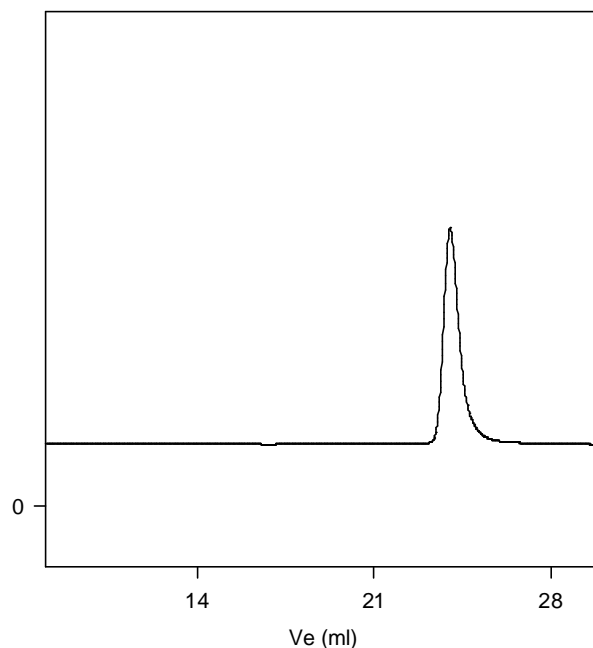
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Polymer is soluble in toluene, THF, CHCl₃ and can be precipitated in water and cold methanol.

SEC of Sample:

P10138-SOH



Size Exclusion chromatography of Hydroxy end poly styrene
— Polystyrene, M_n=13,500, M_w=14,300 PI=1.06

DSC thermogram for the sample:

