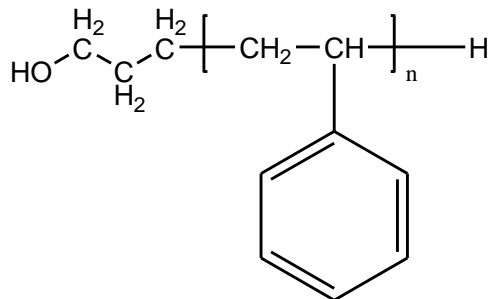


Sample Name:
 ω -Hydroxy Terminated Polystyrene

Sample #: P18731- SOH

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 5.0 | 1.09 |
| T _g (°C) | 80 |

Synthesis Procedure:

ω -hydroxy terminated polystyrene was prepared by living anionic polymerization using OH protected initiator.

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.

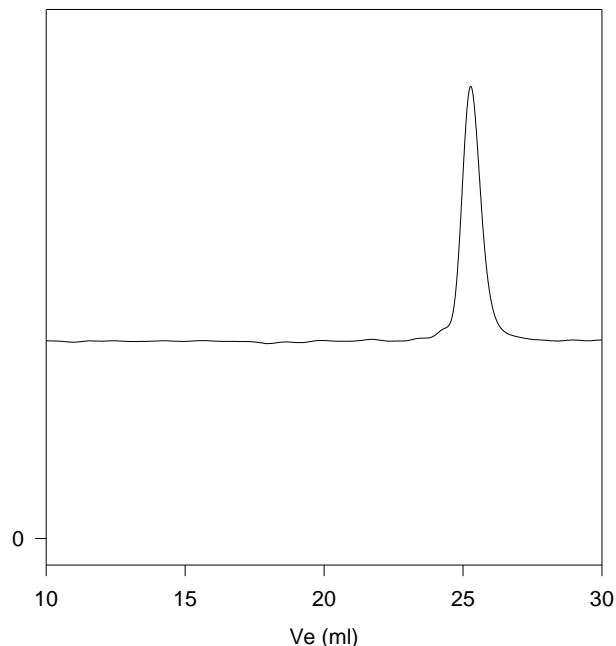
Thermal analysis:

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.

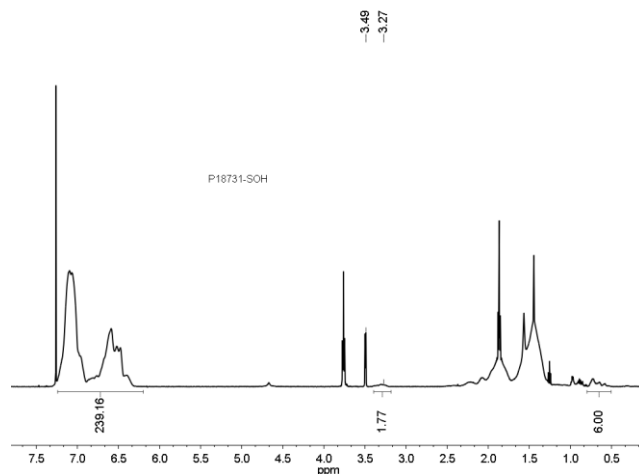
SEC of Sample:
P18731-SOH



Size Exclusion chromatography of Hydroxy end poly styrene

Polystyrene, M_n=5,500, M_w=6,000 PI=1.09

H NMR:



DSC thermogram for the sample:

