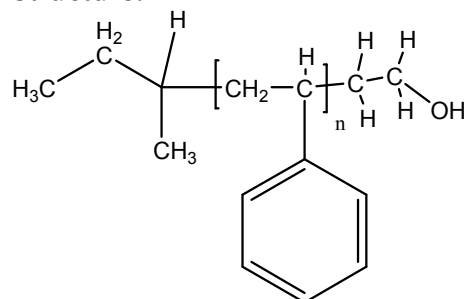


Sample Name:
ω-Hydroxy Terminated Polystyrene

Sample #: P19237- SOH

Structure:



Composition:

Mn x 10 ³	PDI
5.2	1.06
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.

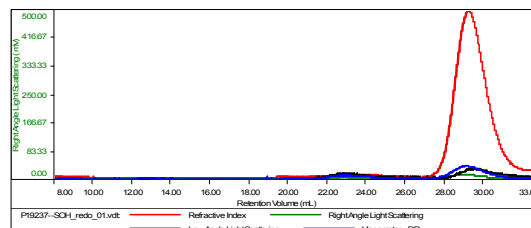
Solubility:

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

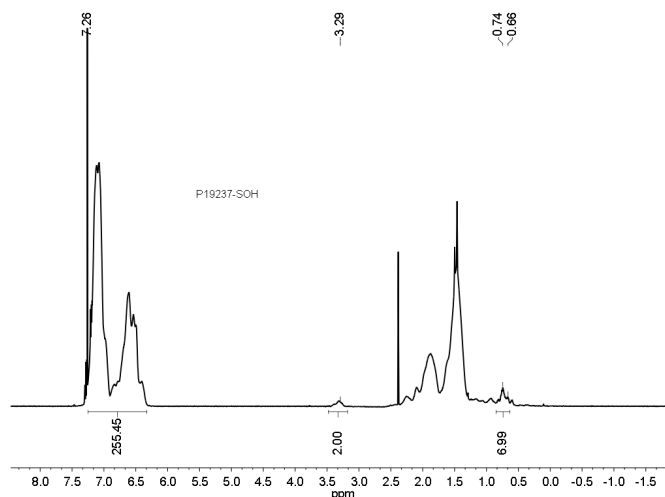
SEC of Sample:

Sample ID: P19237-SOH

Concentration (mg/mL)	2.7122
Sample ch/dt (mL/g)	0.1850
Method File	PS80K-April13-2015-0000.vcm
Column Set	3xPL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19237-SOH_redo_01.vdt	5,153	5,467	4,911	1.061	0.1620



DSC thermogram for the sample:

