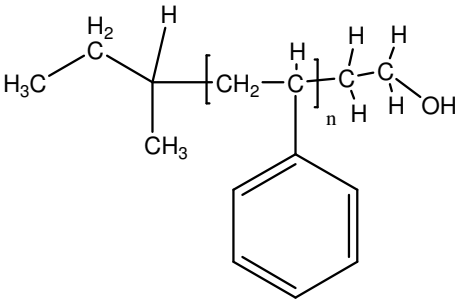
Sample Name:
ω-Hydroxy Terminated Polystyrene

Sample #: P19011- SOH

Structure:



Composition:

Mn x 10^3	PDI
13.5	1.07
T_g (^oC)	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.

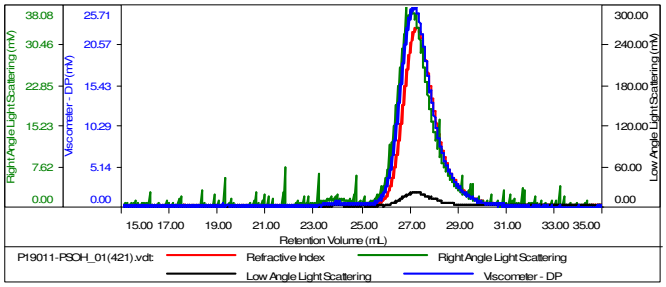
Thermal analysis:
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10^oC/min.The inflection glass transition temperature (T_g) has been considered.

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

SEC of Sample:

P19011-PSOH

Concentration (mg/mL)	2.5778
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Dec17-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersit	Intrinsic Viscosity (dL/g)
P19011-PSOH_01(421).vdt	13,761	14,554	13,889	1.058	0.3738

DSC thermogram for the sample: