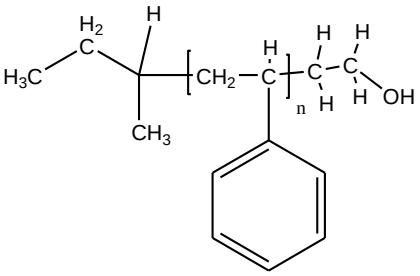
Sample Name: ω-Hydroxy Terminated Polystyrene
Sample #: P19239- SOH

Structure:



Composition:

Mn x 10^3	PDI
5.6	1.09
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.

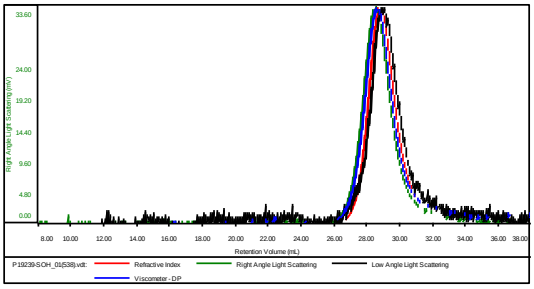
Thermal analysis:
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10^oC/min.The inflection glass transition temperature (T_g) has been considered.

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

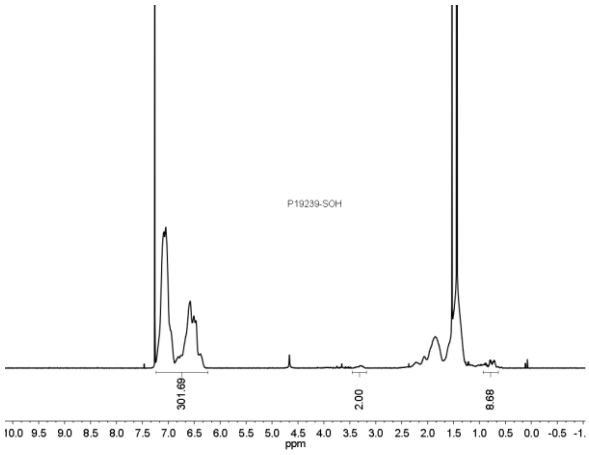
SEC of Sample:

Sample ID:P19239-SOH

Concentration (mg/mL)	7.3023
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-April13-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersi	Intrinsic Viscosity (dL/g)
P19239-SOH_01(538).vdt	5,619	6,158	5,694	1.096	0.2022



DSC thermogram for the sample: