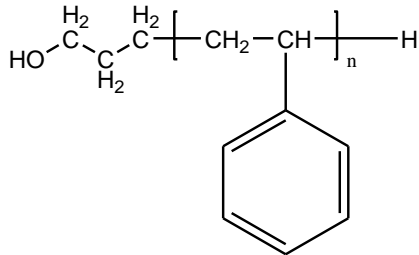


**Sample Name:**  $\omega$ -Hydroxy Terminated Polystyrene

**Sample #:** P18097-SOH

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
1,700.0	1.25
$T_g$ ( $^{\circ}\text{C}$ )	80

**Synthesis Procedure:**

$\omega$ ,-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  $10^{\circ}\text{C}/\text{min}$ . The inflection glass transition temperature ( $T_g$ ) has been considered.

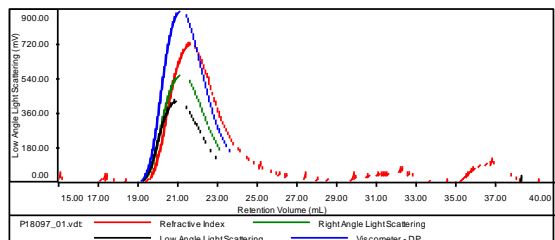
**Solubility:**

Polymer is soluble in toluene, THF,  $\text{CHCl}_3$  and can be precipitated in water and cold methanol.

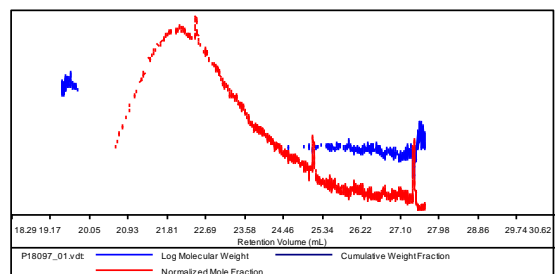
**SEC of Sample:**

Sample ID: P18097-SOH

Concentration (mg/mL)	1.4932
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-July-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18097_01.vdt	1.700 e 6	2.123 e 6	2.192 e 6	1.249	4.3269



**DSC thermogram for the sample:**

