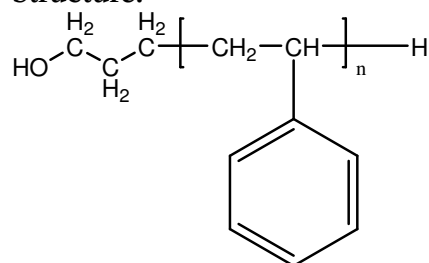


**Sample Name:**  $\omega$ -Hydroxy Terminated Polystyrene

**Sample #:** P18787B- SOH

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
10.0	1.14
T <sub>g</sub> (°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°C/min. The inflection glass transition temperature (T<sub>g</sub>) has been considered.

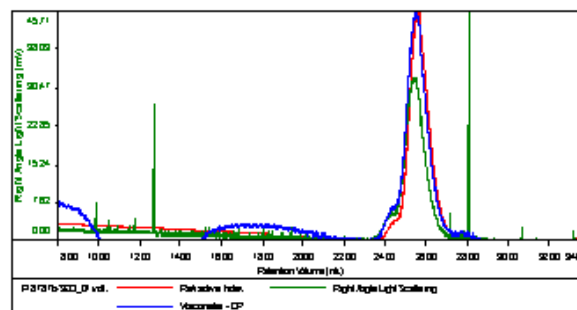
**Solubility:**

Polymer is soluble in toluene, THF, CHCl<sub>3</sub> and can be precipitated in water and cold methanol.

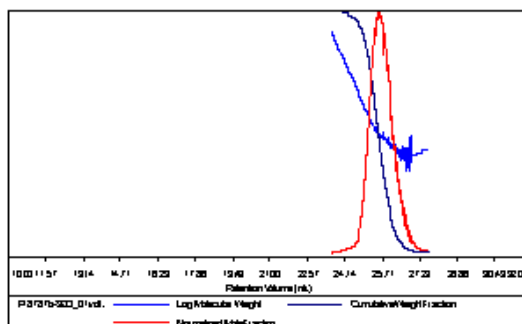
**SEC of Sample:**

**Sample ID:** P18787-SCH

Concentration (mg/mL)	0.9793
Sample divide (mL/g)	0.1880
Method File	PS8046111-2014-0000.ucm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	PDI
P18787b-SEC_01.udt	10,399	11,851	10,574	1.140	0.672



**DSC thermogram for the sample:**

