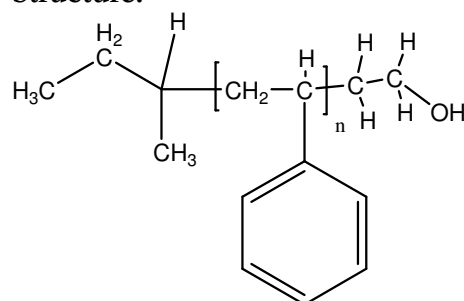


Sample Name:
ω-Hydroxy Terminated Polystyrene

Sample #: P18788- SOH

Structure:



Composition:

Mn x 10 ³	PDI
10.5	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:

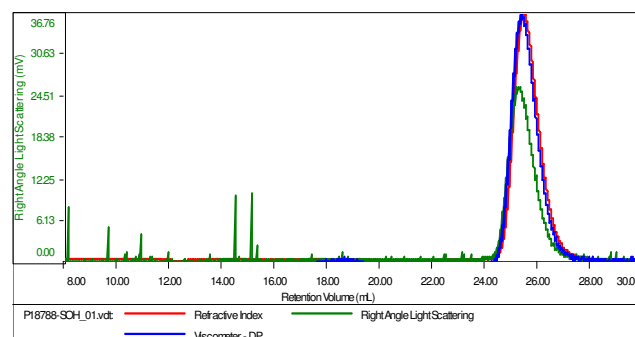
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

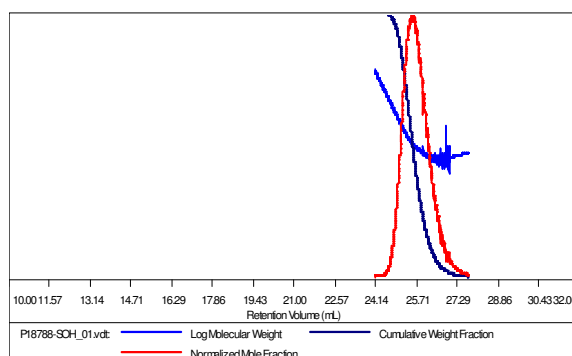
Polymer is soluble in toluene, THF, CHCl₃ and can be precipitated in water and cold methanol.

SEC of Sample:
Sample ID: P18788-SOH

Concentration (mg/mL)	0.7465
Sample dry/c: (mL/g)	0.1850
Method File	PS80K-July11-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mw	Mp	Mw/Mh	IV
P18788-SOH_01.vdt	10,422	11,124	10,831	1.067	0.6060



DSC thermogram for the sample:

