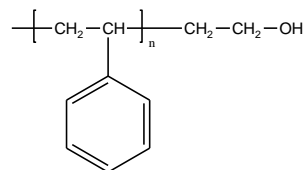


**Sample Name:**  
**ω-Hydroxy Terminated Polystyrene**

**Sample #: P8758- SOH**

**Structure:**

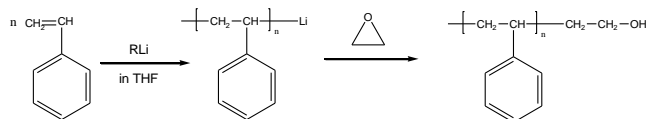


**Composition:**

Mn x 10 <sup>3</sup>	PDI
19.0	1.15
T <sub>g</sub> (°C)	96

**Synthesis Procedure:**

ω-Hydroxy Terminated Polystyrene was prepared by living anionic polymerization. The scheme of the reaction is illustrated below:



**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 using phenolphthalein as the indicator.

**Thermal analysis:**

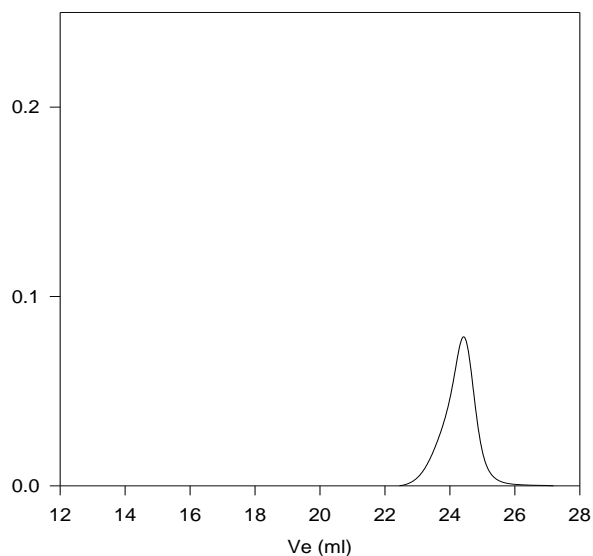
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T<sub>g</sub>) has been considered.

**Solubility:**

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

**SEC of Sample:**

**P8758-SOH**



**DSC thermogram for the sample:**

