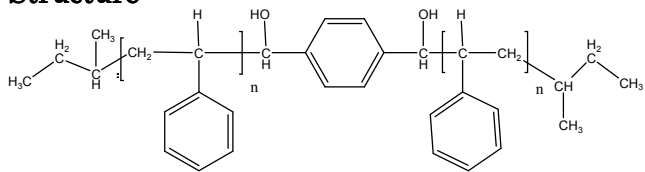
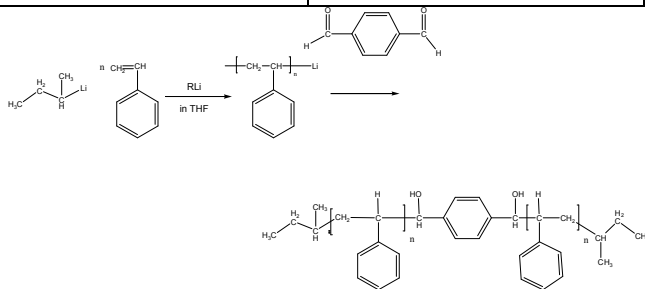


Sample Name:**Dihydroxy group in the center of Polystyrene****Sample #: P10092- S2OH****Structure:****Composition:**

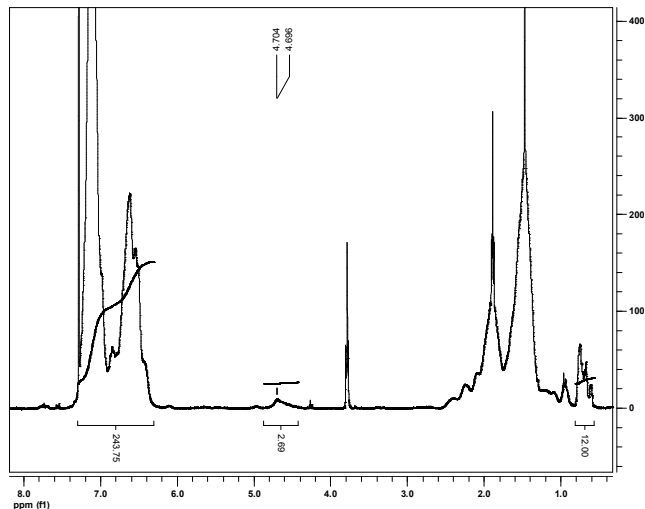
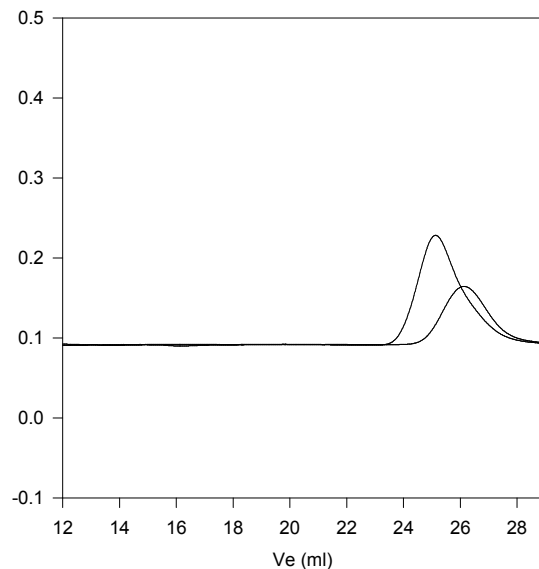
Mn x 10 ³	PDI
5.0	1.4
T _g (°C)	82

**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.

Thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

**SEC for the functional polymer:****P10092-S2OH**Size exclusion chromatography of ω - α dihydroxy in the center polystyrene:M_n=2500, M_w=3500, PI=1.4

After linking reaction : Mn 5,000 Mw/Mn 1.4 functionality: >1.98%

DSC thermogram for the polymer: