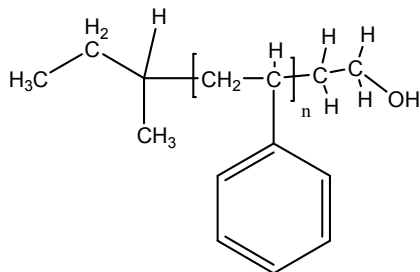


Sample Name:

ω -Hydroxy Terminated Polystyrene

Sample #: **P40312- SOH**

Structure:



Composition:

Mn x 10 ³	PDI
11.5	1.03

Synthesis Procedure:

ω -Hydroxy terminated polystyrene was prepared by anionic living polymerization of styrene in THF followed by termination with ethylene oxide.

Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

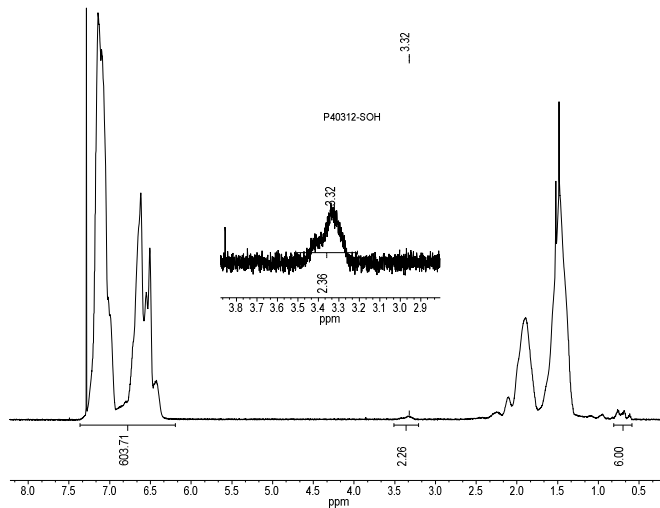
Thermal analysis:

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).

Solubility:

Polystyrene is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

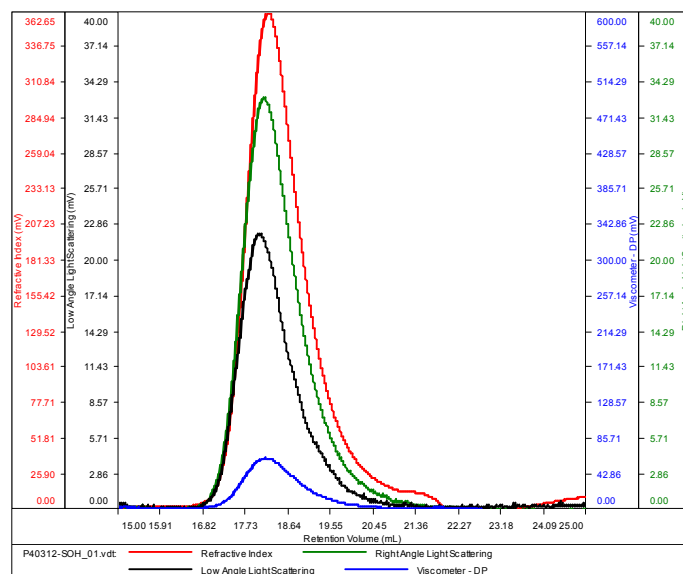
HNMR of the Polymer:



SEC elugrame:

P40312-SOH

Conc (mg/mL)	19.7141
dn/dc (mL/g)	0.1650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40312-SOH_01.vdt	11,590	11,922	11,964	1.029	0.0461