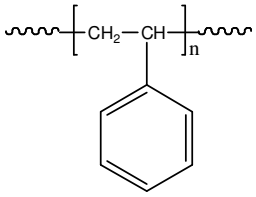
Sample Name: Polystyrene
(Initiator used in synthesis: tert-Butyl lithium).

Sample #: P19438-S

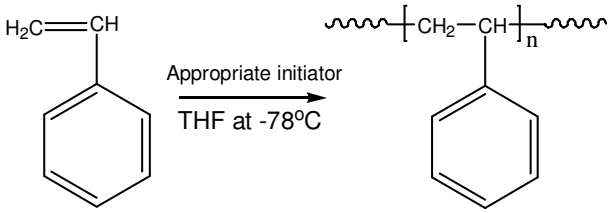
Structure:



Composition:

$M_n \times 10^3$	M_w/M_n
1,095.0	1.08

Synthesis procedure:
Polystyrene was obtained by living anionic polymerization of styrene as illustrated below:



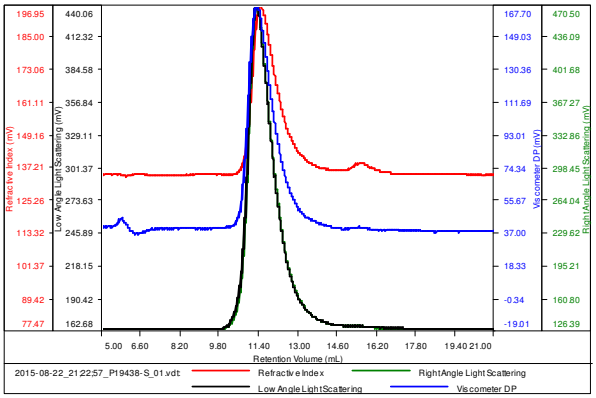
Characterization:
The molecular weight and polydispersity index were obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

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

SEC of the polymer:

SAMPLE ID: P19438-S

Conc (mg/ml)	0.9419
dn/dc (dl/g)	0.1650
Method	PS80K-August2015-0000.vcm
Solvent	DMF w 0.03M LiBr
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
2015-08-22_21;22;57_P19438-S_01.vdt	1.095 e 6	1.180 e 6	1.075 e 6	1.078	1.8589