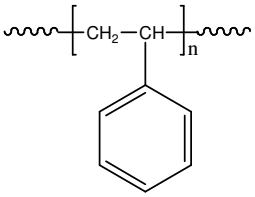
Sample Name: **Polystyrene**

Sample #: **P19102-S**

Structure:

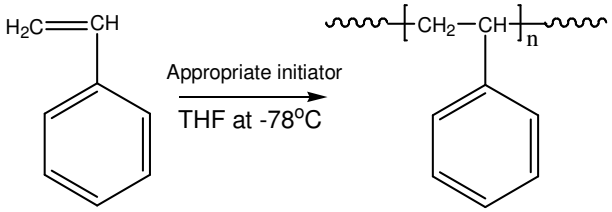


Composition:

Mn x 10^3	PDI
125.0	1.06

Synthesis Procedure:

Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:



Characterization:

The molecular weight and polydispersity index (PDI) are 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.

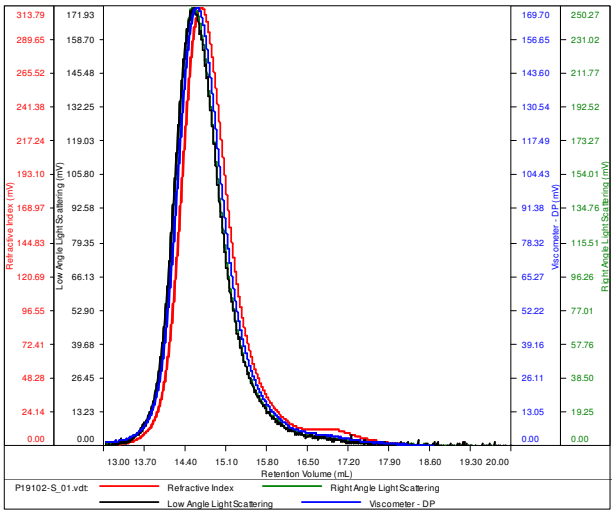
Solubility:

Polystyrene is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC elugram of the polymer: run in DMF

SAMPLE ID: P19102-S

Conc (mg/mL)	5.9986
dn/dc (mL/g)	0.1650
Method	PS80K-NOV2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P19102-S_01.vdt	124,847	131,764	128,646	1.055	0.3150