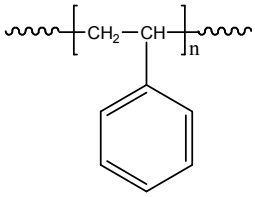
Sample Name: **Polystyrene**

Sample #: **P19447-S**

Structure:

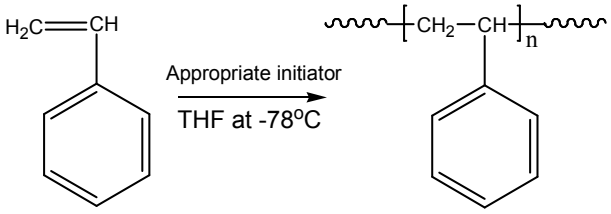


Composition:

Mn x 10^3	PDI
519.0	1.25

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 DMF. 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.

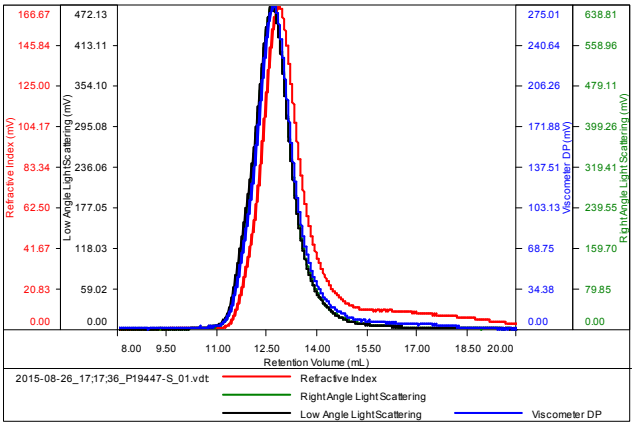
Solubility:

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

SEC of the Sample: run in DMF

SAMPLE ID: P19447-S

Conc (mg/ml)	4.6155
dn/dc (dl/g)	0.1650
Method	2015AUG-0001.v cm
Solvent	DMF w 0.03M LiBr
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
2015-08-26_17;17;36_P19447-S_01.v	519,006	649,907	652,147	1.252	0.9420