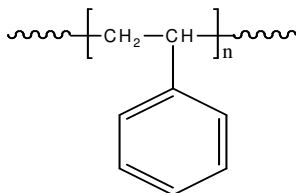


Sample Name: Polystyrene

Sample #: P19831-S

Structure:

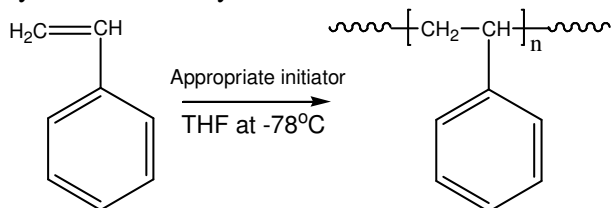


Composition:

$M_n \times 10^3$	PDI
14.0	1.09

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.

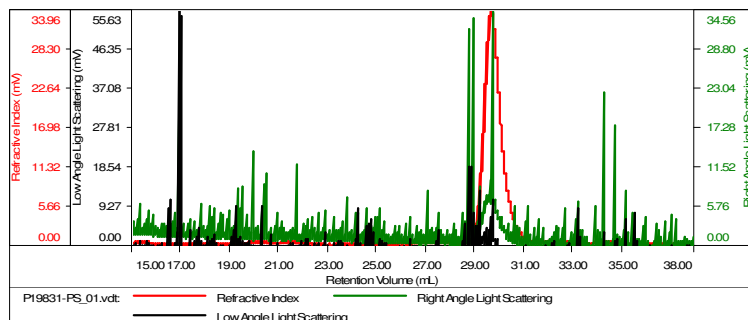
Solubility:

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-P19831-S

Concentration (mg/mL)	0.0906
Sample dn/dc (mL/g)	0.1860
Method File	PS80K-March2016-0001.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Rh (nm)	Ret Vol (mL)
P19831-PS_01.vdt	13,941	15,291	1.097	0.8210	6.37	29.660