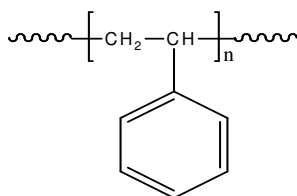


Sample Name: Polystyrene

Sample #: P19903-S

Structure:

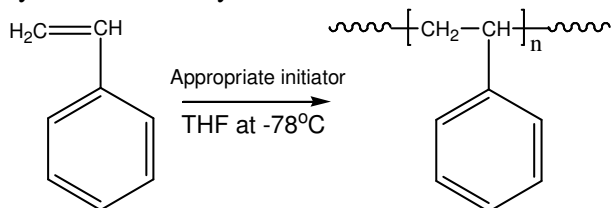


Composition:

Mn x 10 ³	PDI
243.0	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.

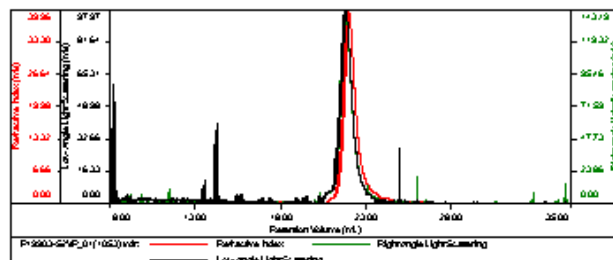
Solubility:

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

SEC elugram of the polymer in THF

Sample ID: P19903-E

Concentration (mg/mL)	0.4776
Sample chkb (mL/g)	0.1880
Method File	PS2016-April-18-2016-0001.vmr
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P19903-E _01 (1053)	242,938	264,957	1.091	1.2695	253,784