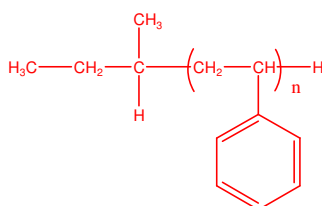


Sample Name: Polystyrene

Sample #: P40067A-S

Structure:

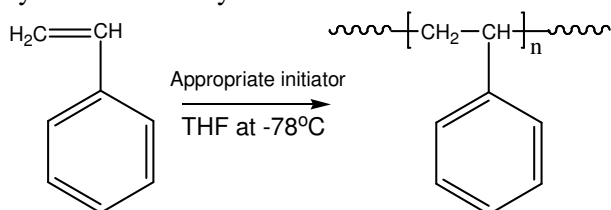


Composition:

Mn x 10 ³	PDI
359.0	1.08

Synthesis Procedure:

Polystyrene was synthesized by living anionic polymerization of styrene as illustrated below:



Characterization:

The molecular weight and polydispersity index (PDI) 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.

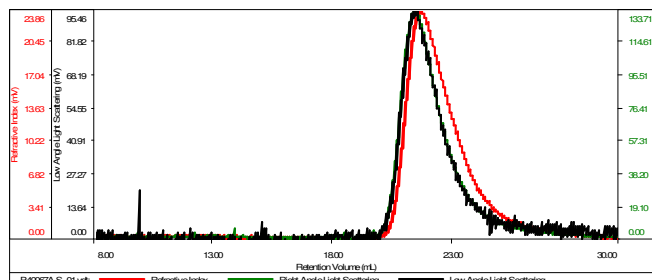
Solubility:

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

SEC elugram of the polymer in THF

Sample ID: P40067A-S

Concentration (mg/mL)	1.2203
Sample dn/dc (mL/g)	0.1880
Method File	PS80K-4August2016-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40067A-S_01.vdt	359,201	388,728	1.082	1.2324	426,010