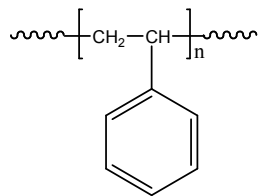


Sample ID: P10449-S

Sample Name: Polystyrene

Sample #: P10449-S

Structure:

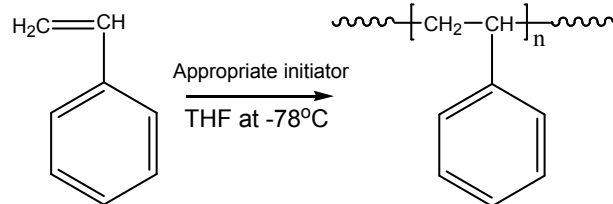


Composition:

Mn x 10 ³	PDI
58.0	1.05

Synthesis Procedure:

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



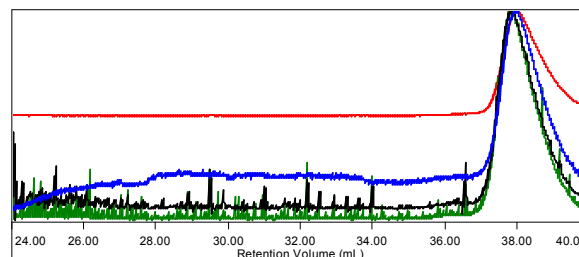
Characterization:

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.

Concentration (mg/mL)	1.2917
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-July-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P10449_2011-10-03_12:47:27_01.vdt	58,110	60,639	60,964	1.044	0.5240

