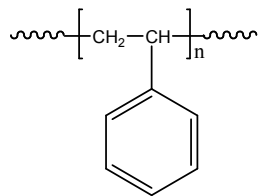


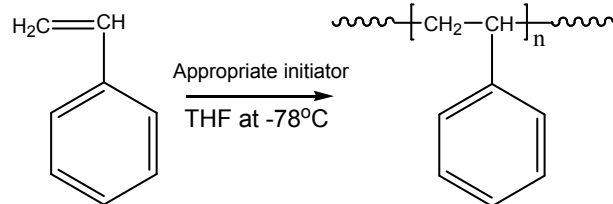
Sample ID: P10447-S

**Sample Name: Polystyrene****Sample #: P10447-S****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
130.0	1.05

**Synthesis Procedure:**

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

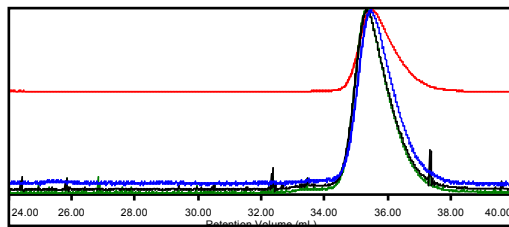
**Characterization:**

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 CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

Concentration (mg/mL)	1.0627
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-July-0000.v cm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P10447_2011-10-03_11:46;24_01.vdt	129,718	135,801	132,436	1.047	1.0116

