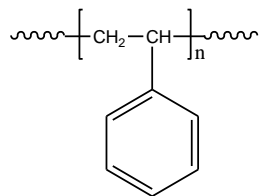


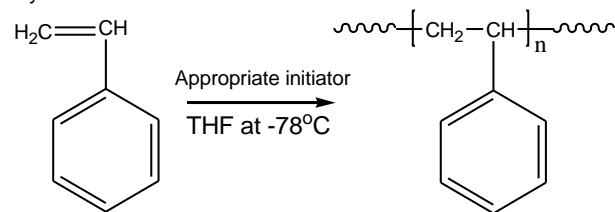
Sample ID: P18161-S

**Sample Name: Polystyrene****Sample #: P18161-S****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
467.5	1.07

**Synthesis Procedure:**

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

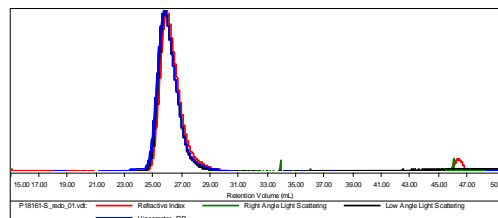
**Characterization:**

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.#NF
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Aug30-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18161-S_redo_01.vdt	467,443	502,516	515,601	1.075	1.9215

