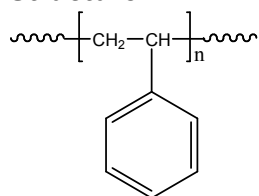


**Sample Name: Polystyrene**

**Sample #: P10486A-S**

**Structure:**

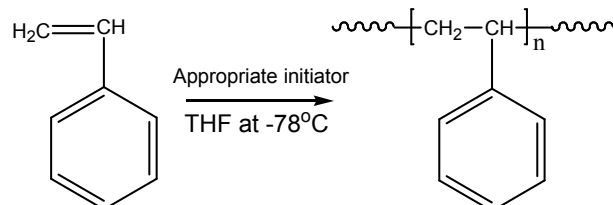


**Composition:**

Mn x10 <sup>3</sup>	Mw/Mn
233.0	1.15

**Synthesis Procedure:**

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



**Characterization:**

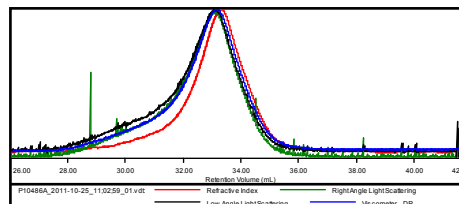
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple 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.

Sample ID: P10486A

Concentration (mg/mL)	2.7723
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Oct-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P10486A_2011-10-25_11:02:59_01.vdt	233,708	267,434	216,863	1.144	1.5425

