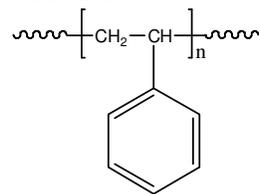
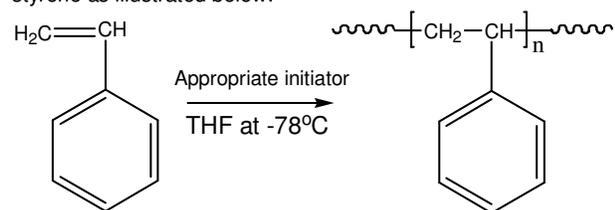


Sample Name: Polystyrene**Sample #: P15006-S****Structure:****Composition:**

Mn x 10 ³	PDI
237	1.15

Synthesis Procedure:

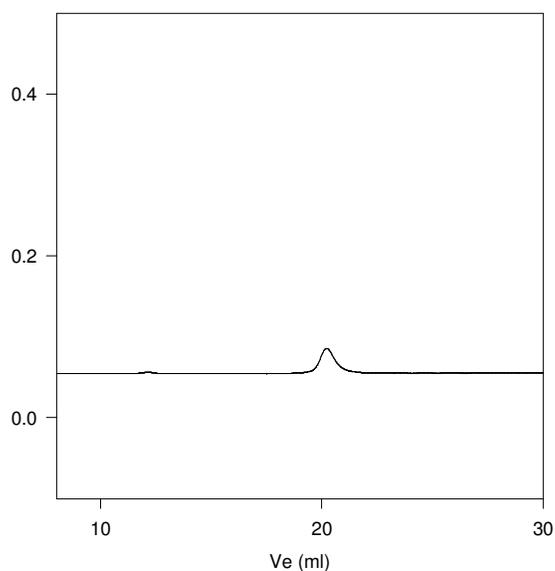
Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:

**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 CHCl₃. It precipitates from methanol, ethanol, water and hexanes.



— Polystyrene, M_n=237,000, M_w=272,500, PI=1.15