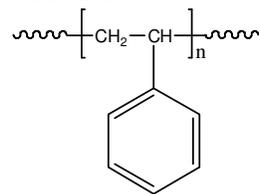
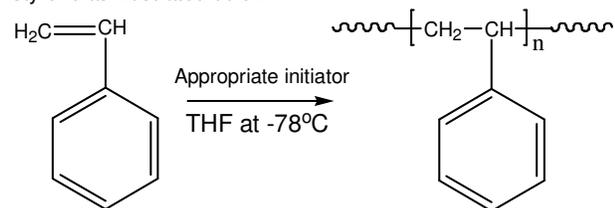


Sample Name: Polystyrene**Sample #: P15001-S****Structure:****Composition:**

Mn x 10 ³	PDI
22.5	1.08

Synthesis Procedure:

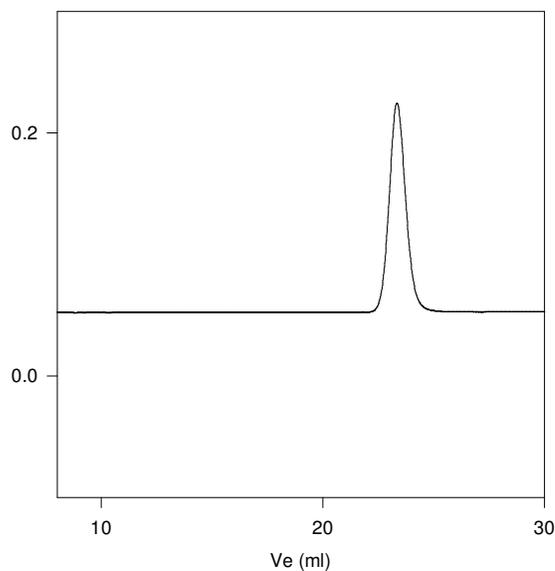
Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:

**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 $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.



— Polystyrene, $M_n=22,500$, $M_w=24,300$, $PI=1.08$