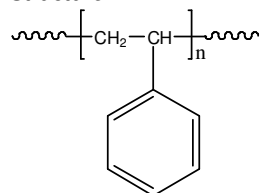
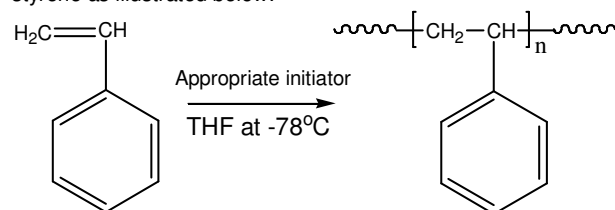


**Sample Name: Polystyrene****Sample #: P15005-S****Structure:****Composition:**

$M_n \times 10^3$	PDI
195	1.25

**Synthesis Procedure:**

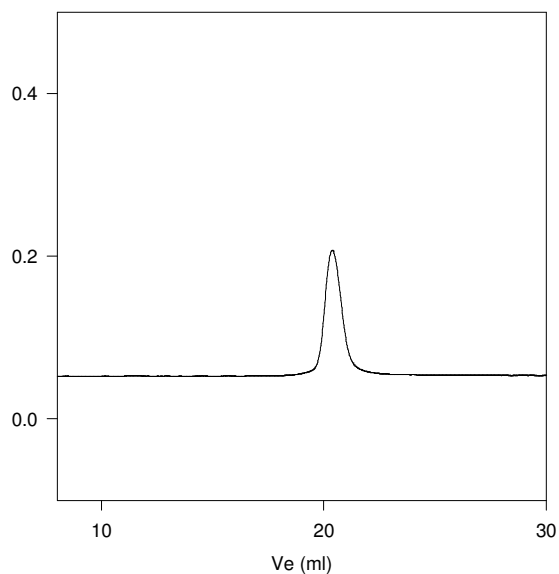
Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:

**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  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes.



— Polystyrene,  $M_n=195,000$ ,  $M_w=244,000$ ,  $PI=1.25$