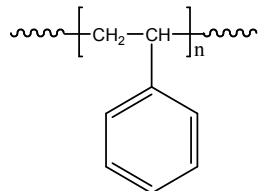


**Sample Name: Polystyrene- Broad Distribution**

**P10436-S**

**Sample #: P10436-S**

**Structure:**

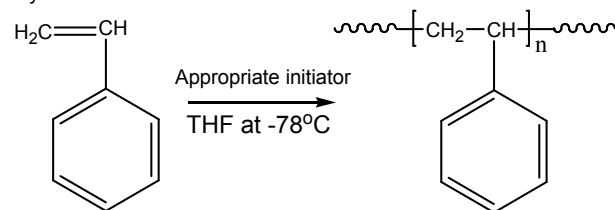


**Composition:**

Mn x 10 <sup>3</sup>	PDI
115.0	1.6

**Synthesis Procedure:**

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

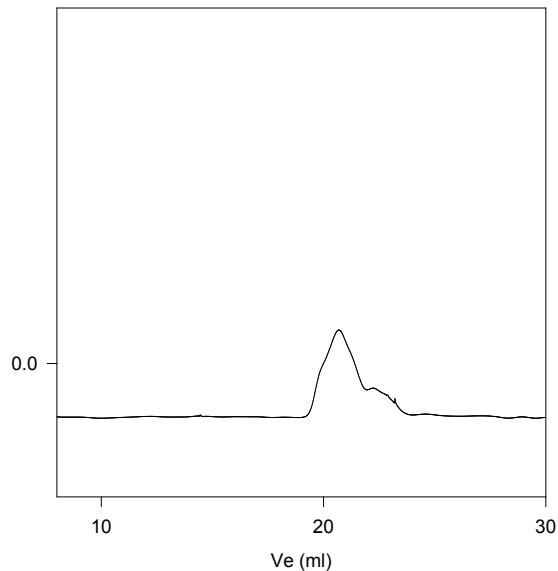


**Characterization:**

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.



— Polystyrene, M<sub>n</sub>=115,000, M<sub>w</sub>=184,000, PI=1.6