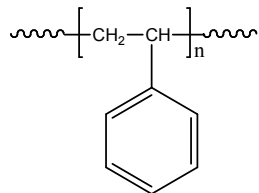


**Sample Name: Polystyrene-Broad Distribution**

**Sample #: P10027-S**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
290	2.7

**Synthesis Procedure:**

Polystyrene is obtained by free radical polymerization of styrene.

**Characterization:**

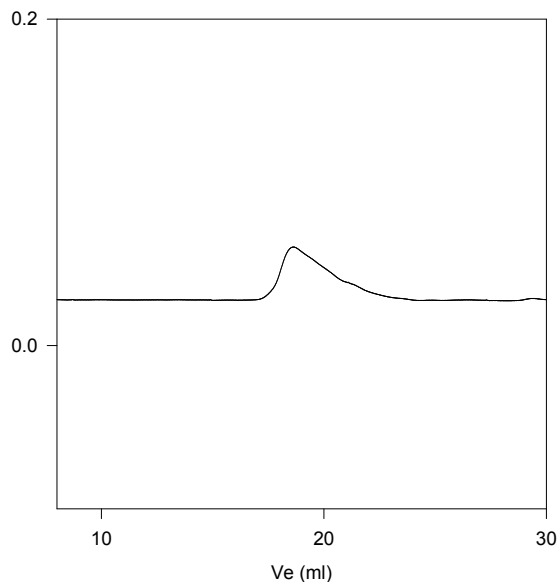
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

**SEC of Homopolymer**

**P10027-S**



$T_g$  of polystyrene as function of molecular weight

