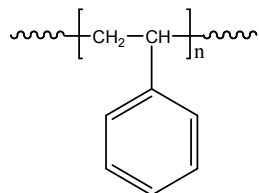


Sample Name: Polystyrene-Broad Distribution

Sample #: P10887-S

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
315.0	1.35

**Synthesis Procedure:**

Polystyrene is obtained by free radical polymerization of styrene.

**Characterization:**

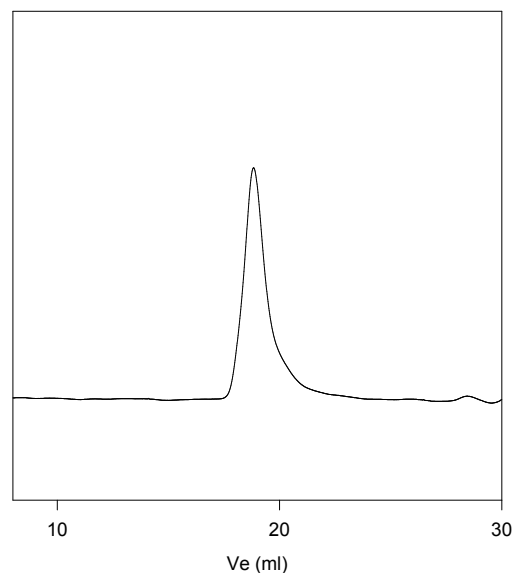
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

**P10887-S**



Polystyrene, M<sub>n</sub>=315,000, M<sub>w</sub>=425,000, PI=1.35

