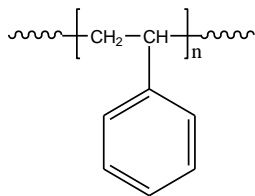


Sample Name: **Polystyrene**

Sample #: **P5629-S**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
900.00	1.14

**Synthesis Procedure:**

Polystyrene is obtained by living anionic polymerization using Sec. Butyllithium initiator.

**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.

**SEC of Homopolymer**

