

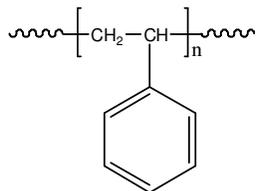
**Sample Name: Polystyrene-Broad Distribution**

**SEC of Homopolymer**

**P15004-S**

**Sample #: P15004-S**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
205.0	1.8

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

