

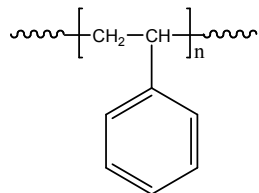
**Sample Name: Polystyrene-Broad
Distribution**

SEC of Homopolymer

P10396-S

Sample #: P10396-S

Structure:



Composition:

Mn x 10 ³	PDI
2,600.0	1.5

Synthesis Procedure:

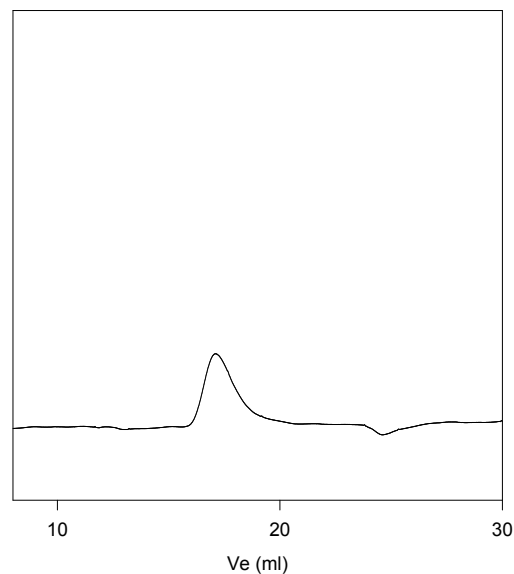
Polystyrene is obtained by free radical polymerization of styrene.

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 CHCl₃. It precipitates from methanol, ethanol, water and hexanes.



— Polystyrene, M_n=2,600,000, M_w= 3,900,000 PI=1.5

T_g of polystyrene as function of molecular weight

