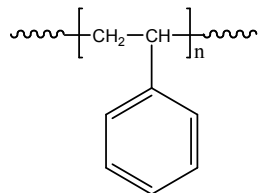


**Sample Name: Polystyrene-Broad
Distribution**

Sample #: P8942-S

Structure:



Composition:

$M_n \times 10^3$	PDI
260.0	3.0

Synthesis Procedure:

Polystyrene is obtained by free radical polymerization of styrene.

Characterization:

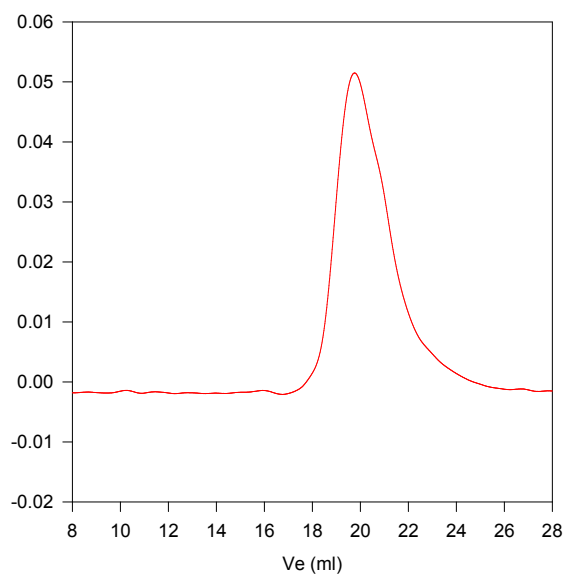
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polystyrene is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer

P8942-S (broad distribution)



Size exclusion chromatograph for polystyrene

T_g of polystyrene as function of molecular weight

