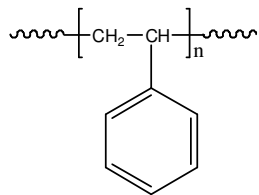


Sample Name: Polystyrene-Broad Distribution

Sample #: P15004A-S

Structure:



Composition:

$M_n \times 10^3$	PDI
103.0	2.5

Synthesis Procedure:

Polystyrene is obtained by free radical polymerization of styrene.

Characterization:

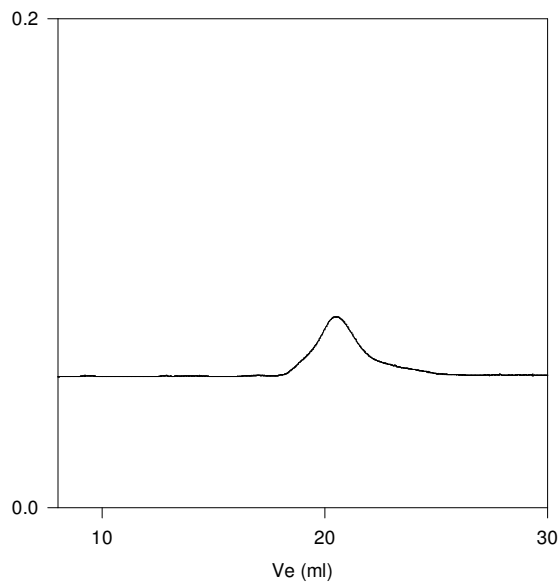
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

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

SEC of Homopolymer

P15004A-S



— Polystyrene, $M_n=103,000$, $M_w=258,000$, $PI=2.5$

T_g of polystyrene as function of molecular weight

