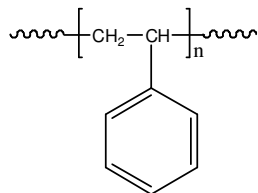


Sample Name: Polystyrene-Broad Distribution

Sample #: P15004-S

Structure:



Composition:

Mn x 10 ³	PDI
205.0	1.8

Synthesis Procedure:

Polystyrene is obtained by free radical polymerization of styrene.

Characterization:

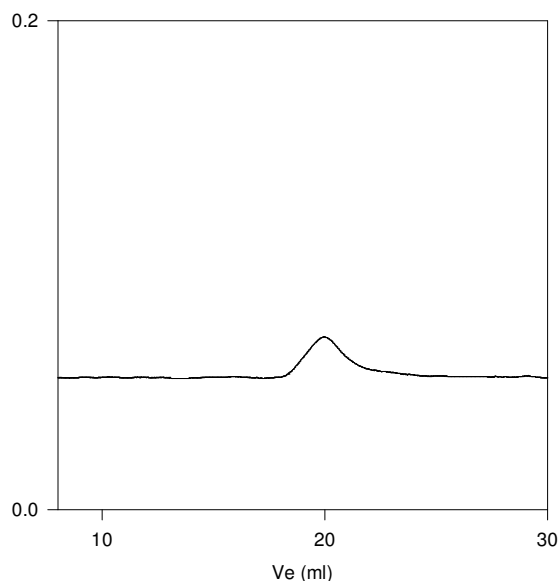
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polystyrene is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer

P15004-S



— Polystyrene, M_n=205,000, M_w=369,000, PI=1.8

T_g of polystyrene as function of molecular weight

