

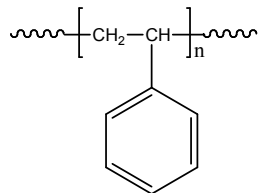
Sample Name: Polystyrene-Broad Distribution

SEC of Homopolymer

P9253-S

Sample #: P9253-S

Structure:



Composition:

Mn x 10 ³	PDI
360.0	1.4

Synthesis Procedure:

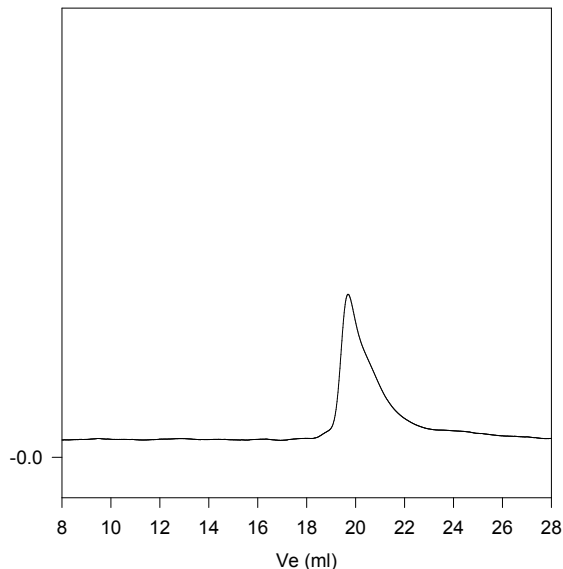
Polystyrene is obtained by free radical polymerization of styrene.

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.



Size exclusion chromatograph of polystyrene:

M_n=360,000, M_w=504,000, PI=1.4

T_g of polystyrene as function of molecular weight

