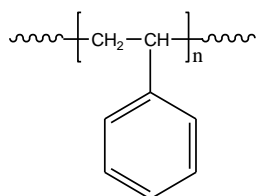


Sample Name: Polystyrene-Broad Distribution

SEC profile of the polymer:

Sample #: P3718-S

Structure:

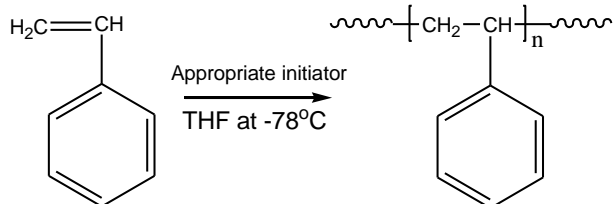


Composition:

Mn x 10 ³	PDI
455.0	1.5

Synthesis Procedure:

Polystyrene is obtained by living anionic polymerization of styrene as illustrated below:



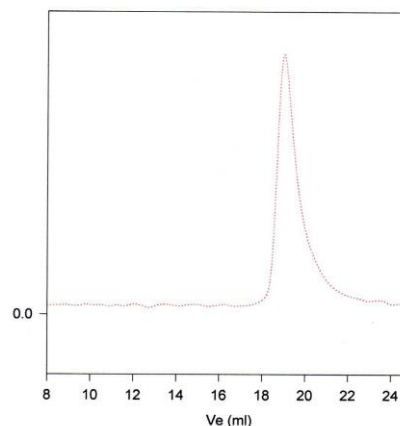
Characterization:

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.

P3718-S



Size exclusion chromatography of polystyrene:

M_n=455000 M_w=679000 PI=1.5