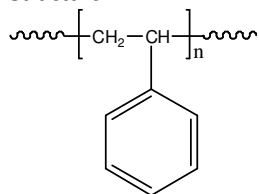


Sample Name: Polystyrene-Broad Distribution

Sample #: P1003-S

Structure:



Composition:

$M_n \times 10^3$	PDI
1450.0	1.3

Synthesis Procedure:

Polystyrene is obtained by living anionic polymerization of styrene using n Butyl lithium initiator.

Characterization:

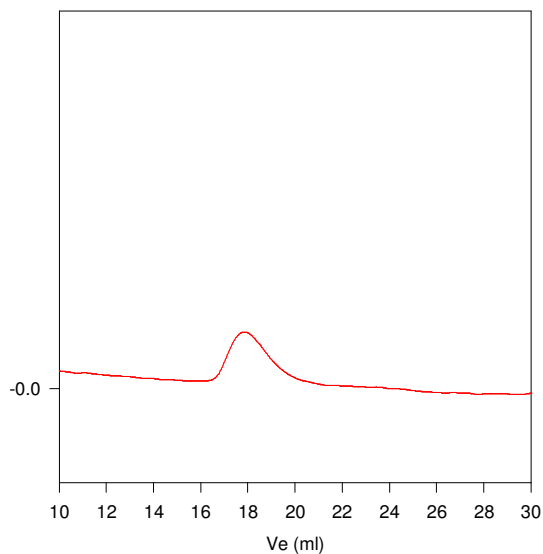
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

P1003-S



Size exclusion chromatograph of polystyrene:

$M_n=1450,000$, $M_w=1980,000$ $PI=1.3$