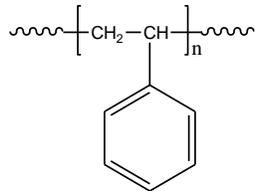


Sample Name: Polystyrene-Broad Distribution

Sample #: P7630-S

Structure:



Composition:

Mn x 10 ³	PDI
9.5	1.35

Synthesis Procedure:

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

Characterization:

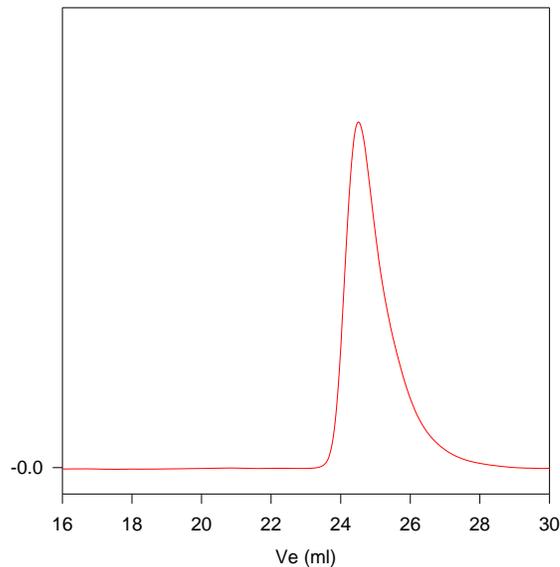
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

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

SEC of Homopolymer

P7630-S (broad distribution)



Size exclusion chromatograph of polystyrene:

M_n=9500, M_w= 12800 M_w/M_n=1.35