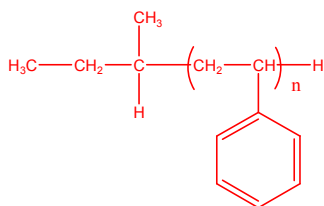


Sample Name: Polystyrene

Sample #: P40235-S

Structure:

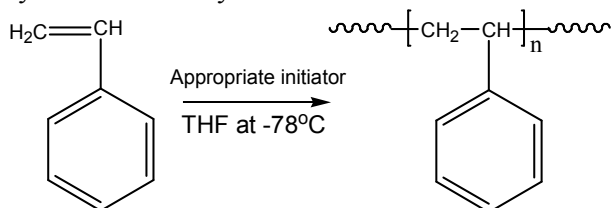


Composition:

Mn x 10 ³	PDI
972.0	1.22

Synthesis Procedure:

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



Characterization:

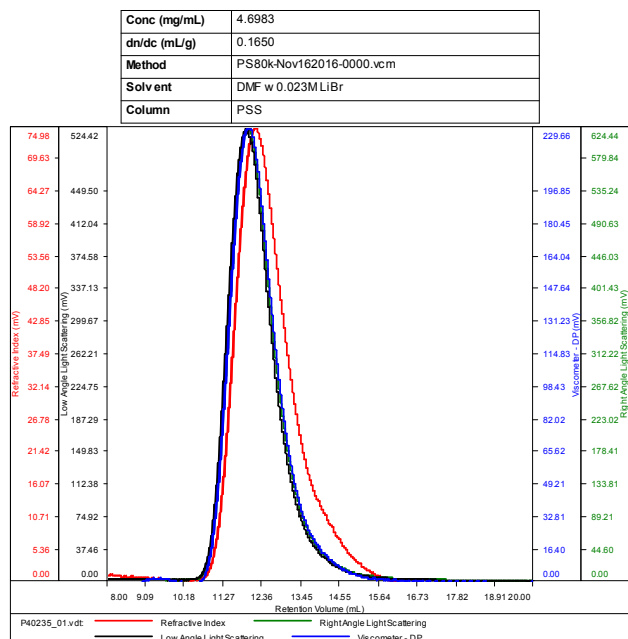
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in DMF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

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

SEC elugram of the polymer in DMF

P40235-S



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40235_01.vdt	972,119	1.190 e 6	1.241 e 6	1.224	0.8192