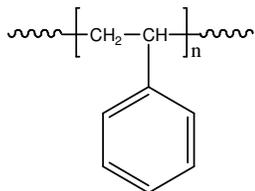


Sample Name: Polystyrene

Sample #: P19031-S

Structure:

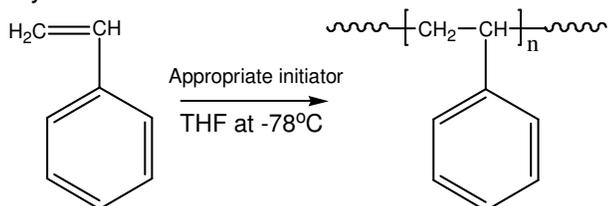


Composition:

$M_n \times 10^3$	PDI
142.0	1.05

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.

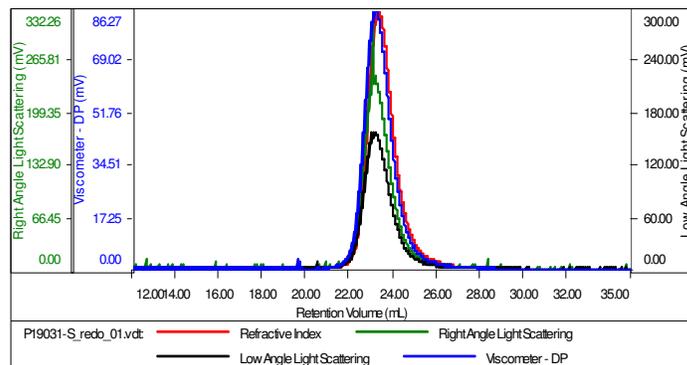
Solubility:

Polystyrene is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC elugram of the polymer:

Sample ID: P19031-S

Concentration (mg/mL)	1.6042
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Dec17-2014-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19031-S_redo_01.vdt	141,835	148,415	143,702	1.046	1.8617