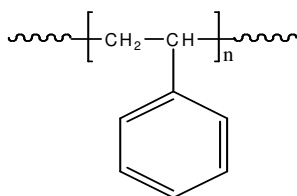


Sample Name: Polystyrene-Broad distribution

Sample #: P19661-S

Structure:

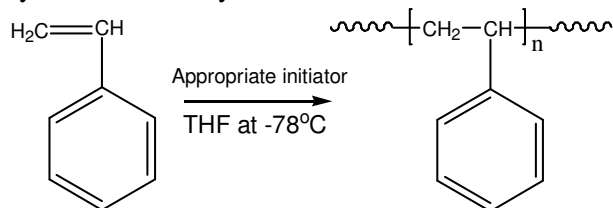


Composition:

$M_n \times 10^3$	PDI
615.0	1.24

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.

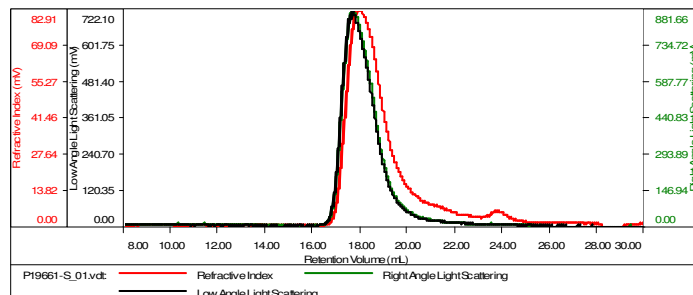
Solubility:

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

SEC elugram of the polymer: run in DMF

Sample ID-P19661-S

Concentration (mg/mL)	0.8411
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-June30-2015-0000.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)
P19661-S_01.vdt	616,013	761,102	907,397	1.236	8.5301