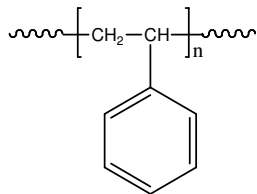


Sample Name: Polystyrene

Sample #: P11432-S

Structure:

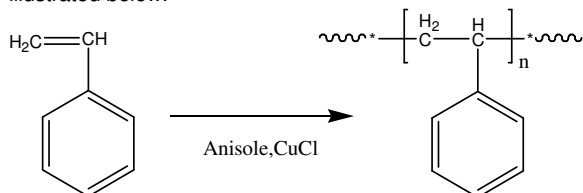


Composition:

Mn x 10 ³	PDI
1,700.0	1.14

Synthesis Procedure:

Polystyrene is obtained by free radical polymerization 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.

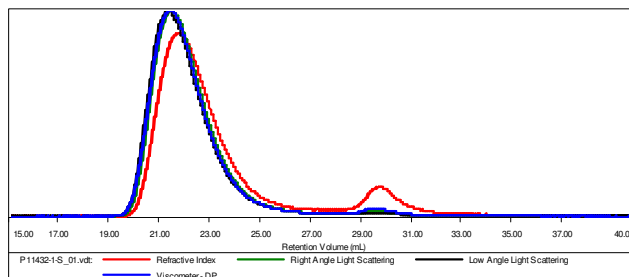
Solubility:

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

SEC of the polymer:

Sample ID: P11432-1-S

Concentration (mg/mL)	1.7954
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Apr-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P11432-1-S_01.vdt	1.707 e 6	1.936 e 6	1.978 e 6	1.134	5.7978

