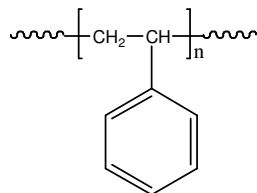


Sample Name: Polystyrene-Broad Distribution

Sample #: P11294-S

Structure:

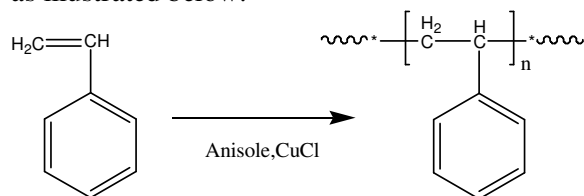


Composition:

Mn x 10 ³	PDI
152.5	1.65

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.

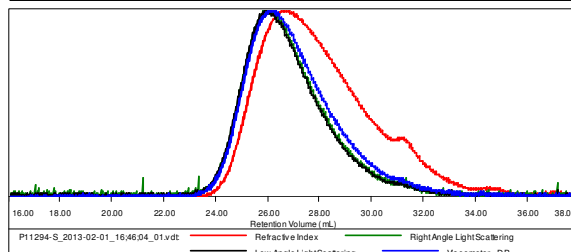
Solubility:

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

SEC of the polymer:

Sample ID: P11294-S

Concentration (mg/mL)	2.0532
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Feb-2013-0001.v cm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P11294-S_2013-02-01_16:46:04_01.v dt	152,648	249,117	299,904	1.632	1.0928

