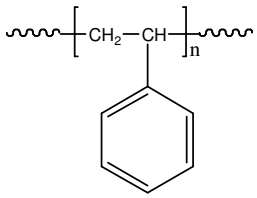
Sample Name: **Polystyrene-Broad Distribution**

Sample #: **P11288-S**

Structure:

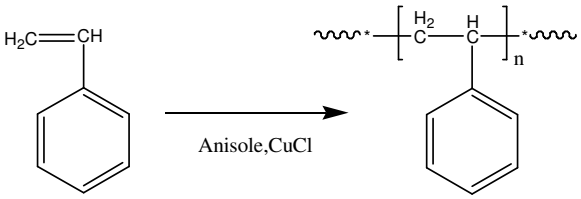


Composition:

Mn x 10^3	PDI
95.5	1.4

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 $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC of the polymer:

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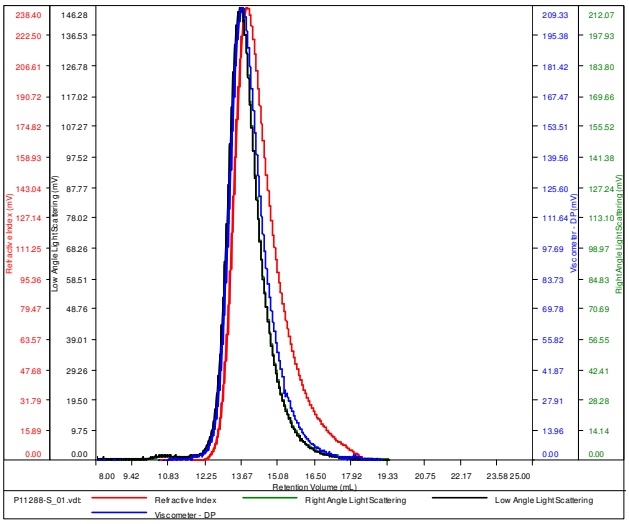
Conc (mg/mL)	3.0980
dn/dc (mL/g)	0.1500
Method	ps80k-Dec2015-DMAc-0000.vcm
Solvent	DMAc with 0.8w/v LiBr
Column	PSS



Sample	Mn	Mw	Mp	MwMn	IV
P11288-S_01.vdt	95,537	136,189	158,457	1.426	0.9619