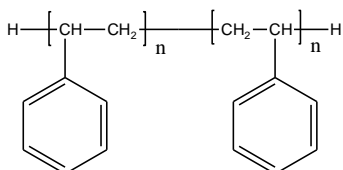


Sample Name: **Polystyrene**

Sample #: **P40566-S**

**Structure:**

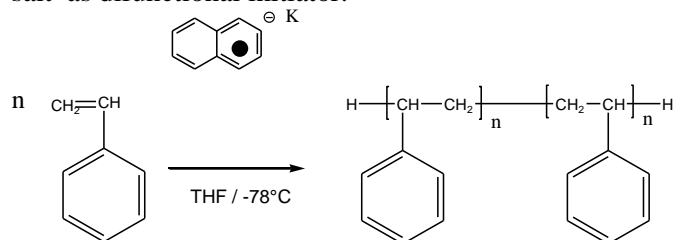


**Composition:**

Mn x 10 <sup>3</sup>	PDI
603.0	1.08

**Synthesis Procedure:**

Polystyrene is obtained by living anionic polymerization of styrene using Naphthalene Potassium salt as difunctional initiator.



**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 chromatography 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.

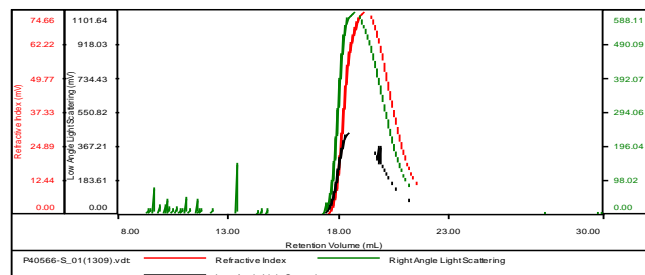
**Solubility:**

Polystyrene is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of the polymer in THF:**

**P40566-S**

Concentration (mg/mL)	1.6464
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Feb2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40566-S_01(1309).vc	603,140	651,886	1.081	4.2163	641,688