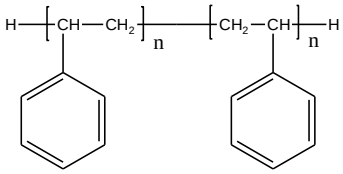
Sample Name: **Polystyrene**

Sample #: **P40565-S**

Structure:

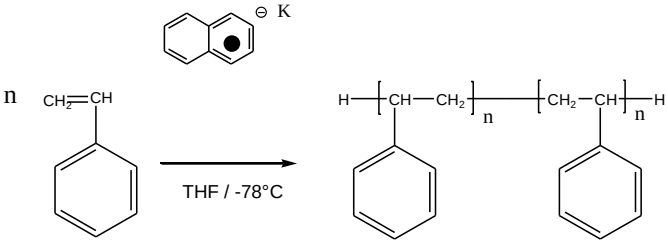


Composition:

Mn x 10^3	PDI
439.0	1.05

Synthesis Procedure:

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



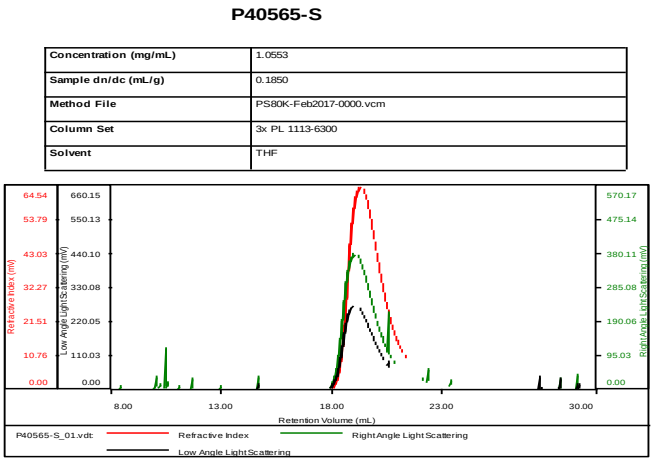
Characterization:

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

SEC elugram of the polymer in THF:



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40565-S_01.vdt	439,240	460,779	1.049	2.4160	470,586