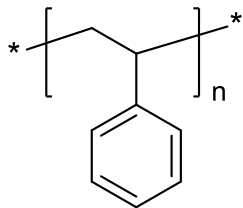


**Sample Name:** Polystyrene

**Sample #:** P10659A-S

**Structure:**

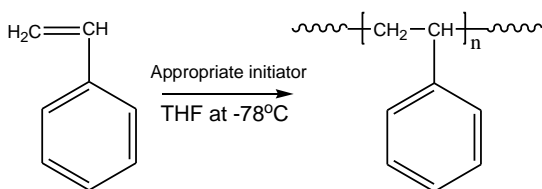


**Composition:**

$M_n \times 10^3$ (g/mol)	$M_w/M_n$
2,225.0	1.16

**Synthesis Procedure:**

Polystyrene was obtained by living anionic polymerization technique.



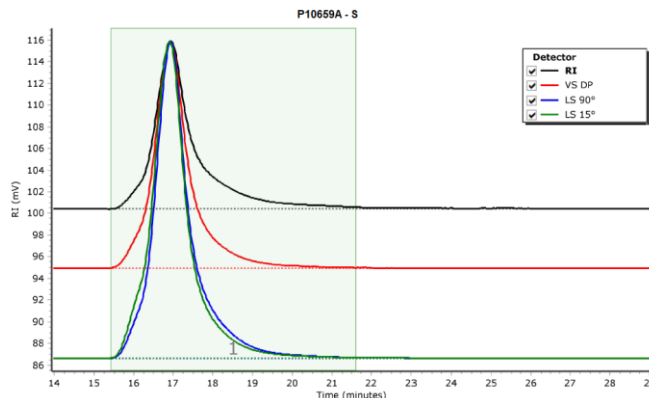
**Characterization:**

The molecular weight and polydispersity index ( $M_w/M_n$ ) were obtained by size exclusion chromatography (SEC) performed on Agilent 1260 Infinity II multi-detector GPC/SEC system using tetrahydrofuran (THF) as a mobile phase.

**Solubility:**

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

**SEC chromatogram of P10659A in THF:**



**Molecular Weight Averages**

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	PD
Peak 1	2841976	2225429	2592621	2822096	1.165

**Processing Parameters**

Entered dn/dc (mL/g)	0.185
MW calculation method	Use all angles
Log Mi-v-RT curve fit options	Set the fit limits using the limits at peak width of 10 %