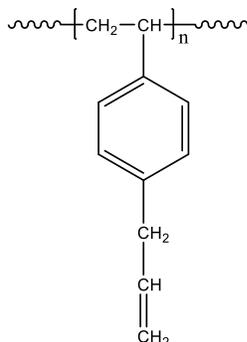


**Sample Name: Poly(4-allyl styrene)**

**Sample #: P42857-4-AllylS**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
20.5	1.8

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process.

**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.

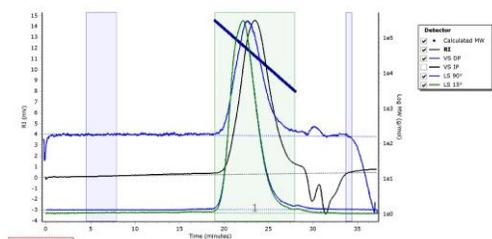
**Solubility:**

Polymer is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of Homopolymer:**

P42857-S-Allyl

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mz (g/mol)	PD
Peak: 1	31493	20726	36997	65803	100769	56533	1.881