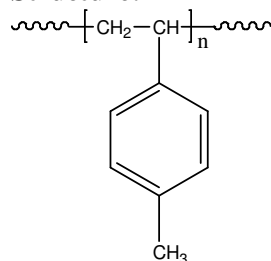


Sample Name: Poly(4-methyl styrene)

Sample #: P19648-4MeS

**Structure:**

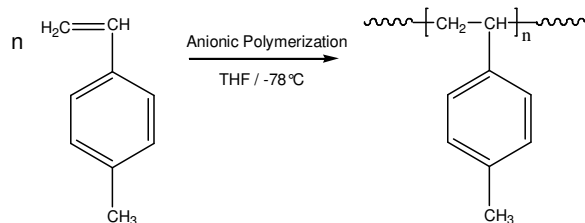


**Composition:**

Mn x 10 <sup>3</sup>	PDI
30.5	1.07

**Synthesis Procedure:**

Poly(4-methyl styrene) is synthesized by living anionic polymerization of 4-methyl styrene and the reaction scheme is shown below.



**Characterization:**

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC).

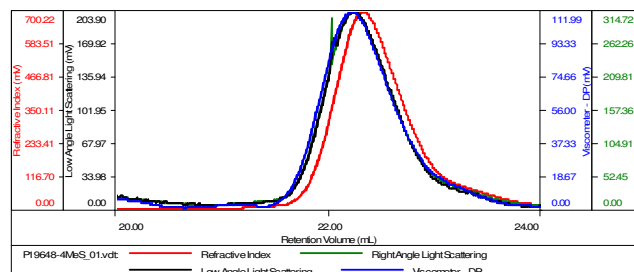
**Solubility:**

Poly(4-methyl styrene) is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC of Homopolymer:**

**Sample ID-P19648-4MeS**

Concentration (mg/mL)	3.3476
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan-2016-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19648-4MeS_01.vdt	30,594	32,923	30,114	1.076	0.8170