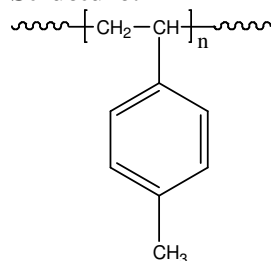


Sample Name: Poly(4-methyl styrene)

Sample #: P19646-4MeS

Structure:

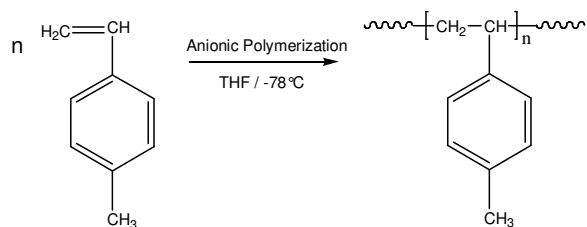


Composition:

$M_n \times 10^3$	PDI
75.0	1.01

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).

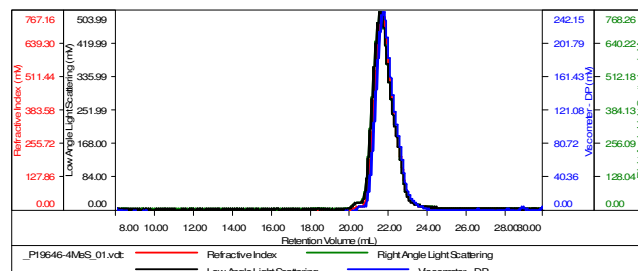
Solubility:

Poly(4-methyl styrene) is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

Sample ID-P19646-4MeS

Concentration (mg/mL)	4.286
Sample dn/dc (mL/g)	0.1850
Method File	PS90K-June30-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
_P19646-4MeS_01.vcl	75,066	75,859	70,350	1.011	1.7429