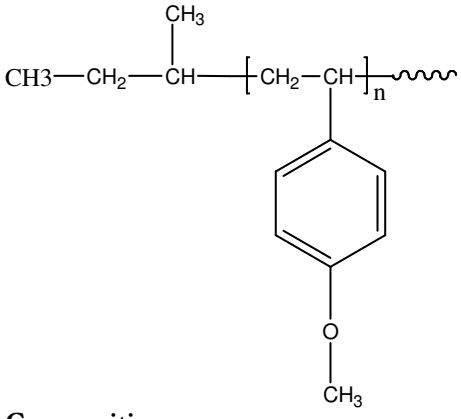
Sample Name: **Poly(4-methoxy styrene)**

Sample #: **P19200-4MeOS**

Structure:

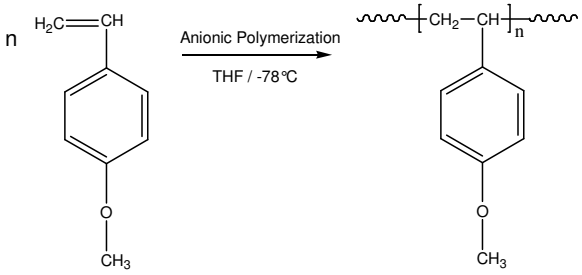


Composition:

Mn x 10^3	PDI
780.0	1.07

Synthesis Procedure:

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



Characterization:

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

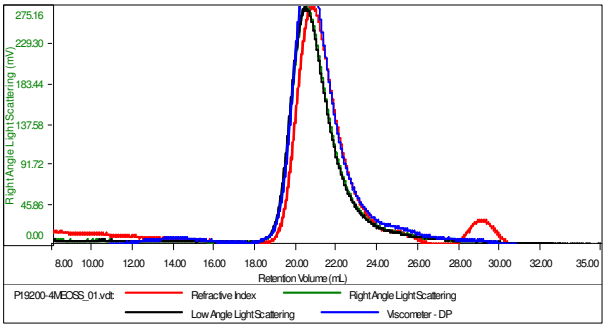
Solubility:

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

SEC of Homopolymer:

Sample ID: P19200-4MeoS

Concentration (mg/mL)	2.1394
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersit	Intrinsic Viscosity (dL/g)
P19200-4MEOSS_01.vdt	779,313	832,862	819,097	1.069	1.2683