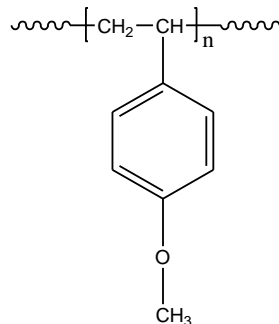


Sample Name: Poly(4-methoxy styrene)

Sample #: P18297B-4MeOS

Structure:

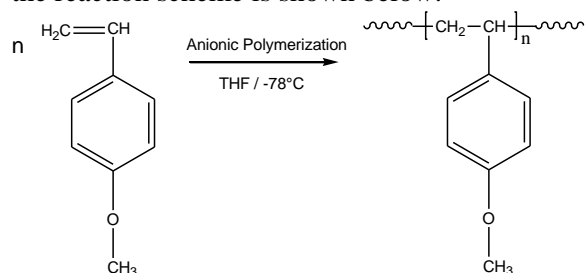


Composition:

Mn x 10 ³	PDI
25.0	3.3

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 in THF.

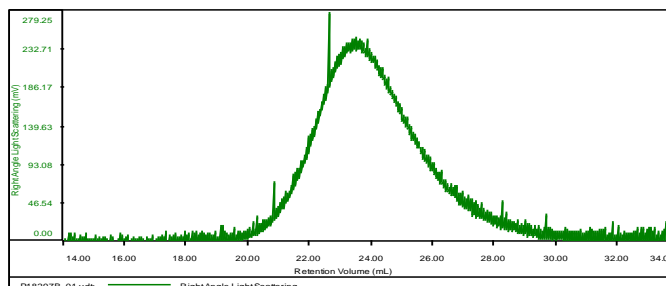
Solubility:

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

SEC elugram of Homopolymer:

P18297B

Concentration (mg/mL)	21.7923
Sample dn/dc (mL/g)	0.1850
Method File	PS105K-April16-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P18297B_01.vdt	25,077	83,567	3.332	0.2661	77,850