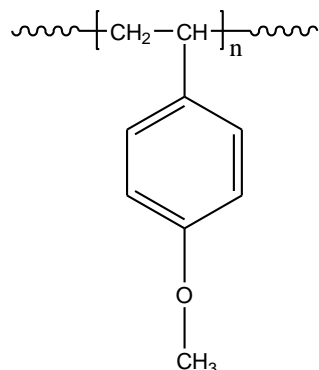


Sample Name: Poly (4-methoxy styrene)

Sample #: P18306-4MeOS

Structure:

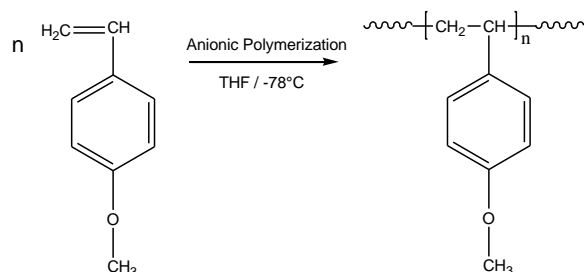


Composition:

Mn x 10 ³	PDI
35.0	1.16

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 DMF.

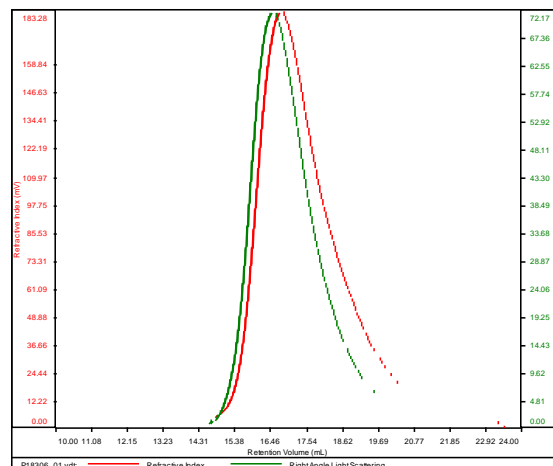
Solubility:

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:

P18306

Conc	11.3655
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS-80K_2018-04-02-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18306_01.vdt	34,973	40,462	45,375	1.157	0.1926