

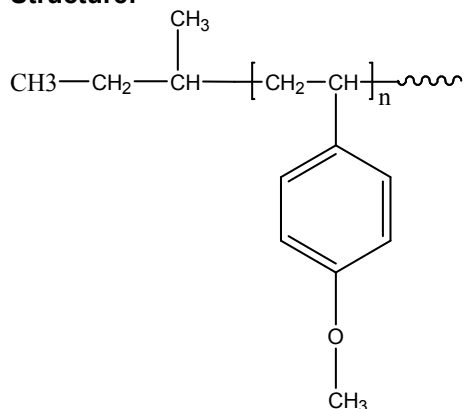
Sample Name: Poly(4-methoxy styrene)

SEC of Homopolymer:

P8119-4MeOS

Sample #: **P8119-4MeOS**

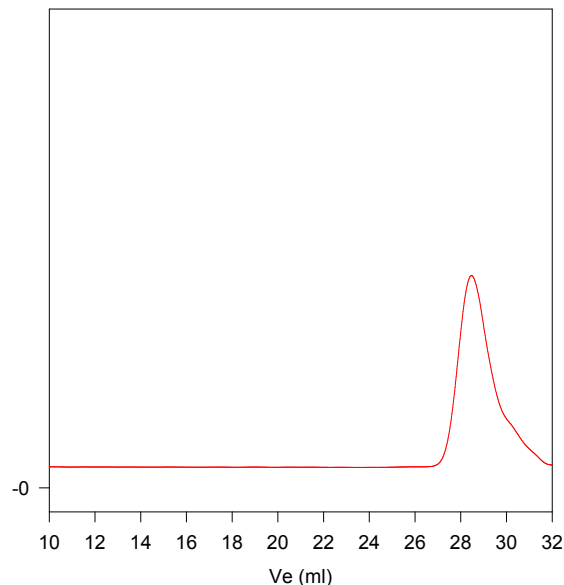
Structure:



n: about 5

Composition:

Mn x 10 ³	PDI
0.8	1.15



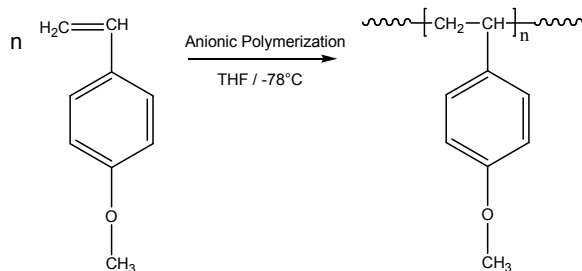
Size Exclusion Chromatograph of Poly(4-Methoxy styrene)

M_n=800, M_w=920, M_w/M_n=1.15

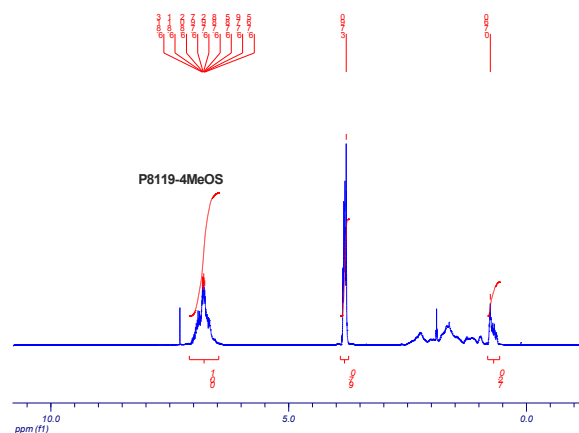
From HNMR Mn: 850

Synthesis Procedure:

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



H NMR of the Polymer:



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 CHCl₃. It precipitates from methanol, ethanol, water and hexanes.