

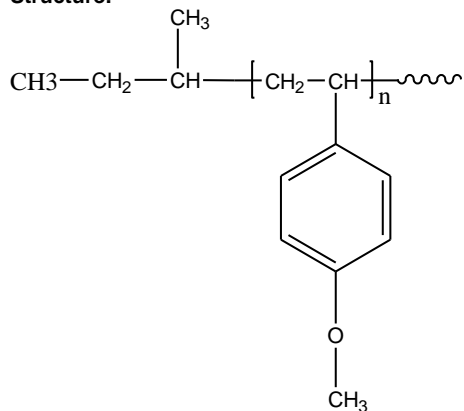
Sample Name: Poly(4-methoxy styrene)

SEC of Homopolymer:

P18297A-4MEOS

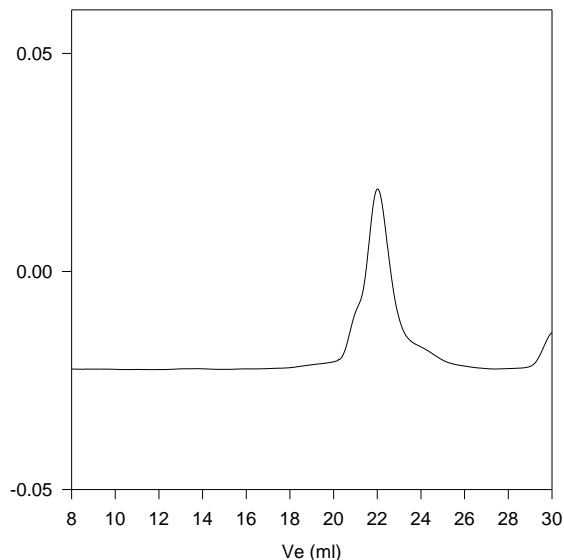
Sample #: P18297A-4MeOS

Structure:



Composition:

$M_n \times 10^3$	PDI
19.0	1.5

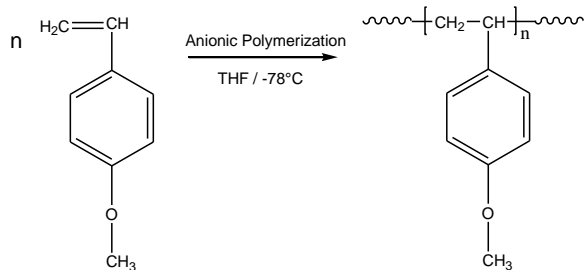


Size exclusion chromatography of poly(4-methoxy styrene):

$M_n=19,000$, $M_w=28,500$, $PI=1.5$

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.