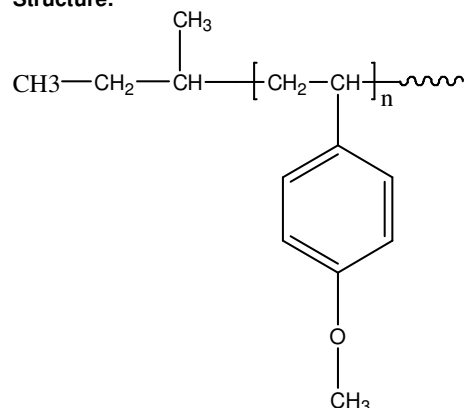


Sample Name: Poly(4-methoxy styrene)

SEC of Homopolymer:

Sample #: P5511-4MeOS

Structure:

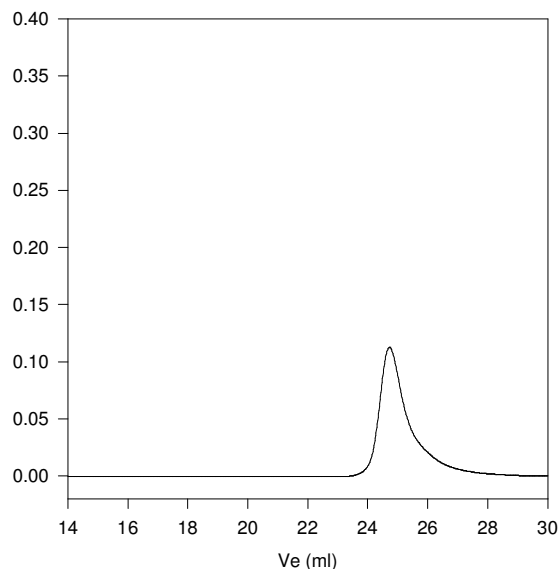


n: about 5

Composition:

Mn x 10 ³	PDI
9.5	1.2

P5511-4MeOS

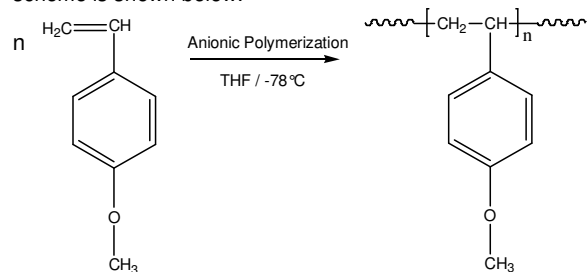


Size exclusion chromatography of poly(4-methoxy styrene):

M_n=9,500, M_w=11,400, PI=1.20

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