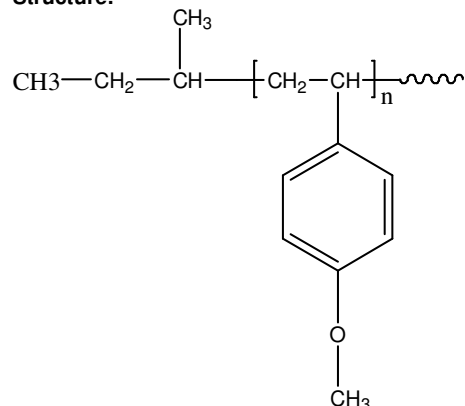


Sample Name: Poly(4-methoxy styrene)

Sample #: P5335-4MeOS

**Structure:**



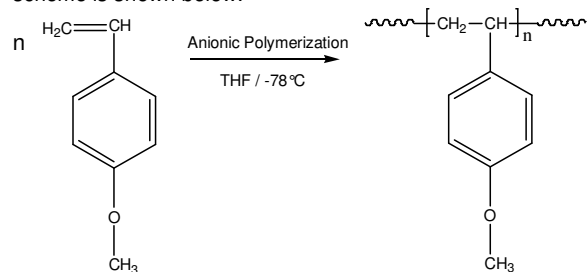
n: about 5

**Composition:**

Mn x 10 <sup>3</sup>	PDI
18.5	1.11

**Synthesis Procedure:**

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



**Characterization:**

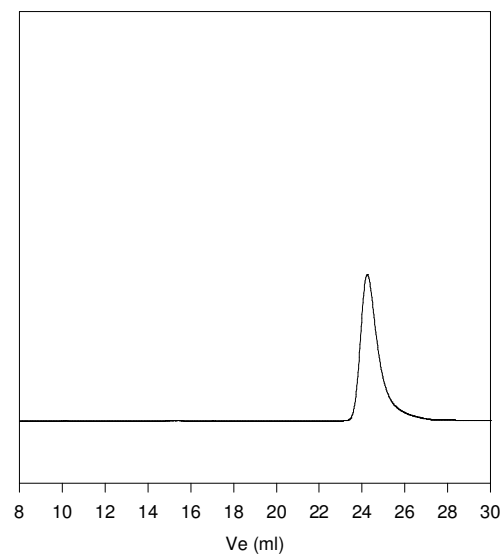
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography and from HNMR.

**Solubility:**

Poly(4-methoxy styrene) is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P5335-4MeOS



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

M<sub>n</sub>=18500, M<sub>w</sub>=12500, PI=1.11