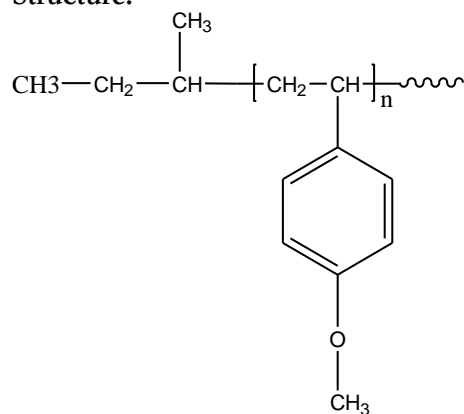


Sample Name: Poly(4-methoxy styrene)

Sample #: P18297A-4MeOS

**Structure:**

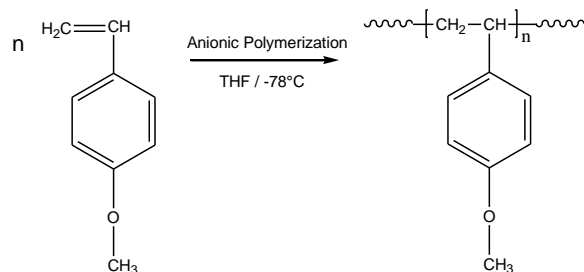


**Composition:**

Mn x 10 <sup>3</sup>	PDI
19.0	4.0

**Synthesis Procedure:**

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



**Characterization:**

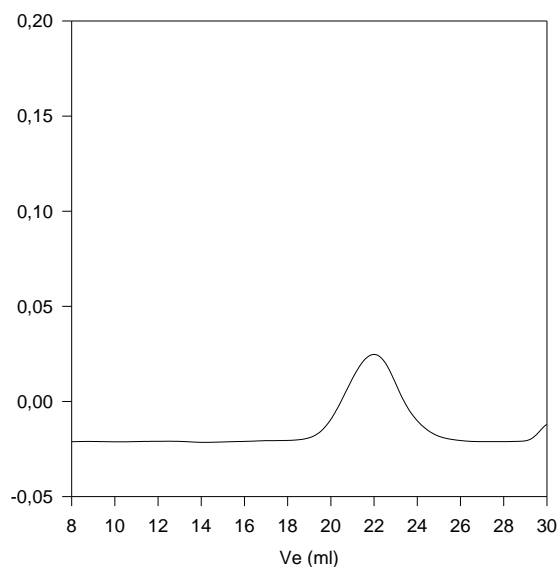
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography and from HNMR.

**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:**

**P18297-4MEOS**



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

M<sub>n</sub>=19,000, M<sub>w</sub>=76,000, PI=4.0