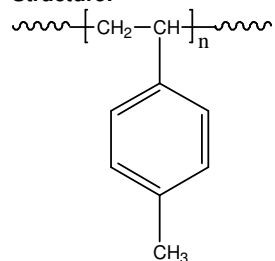


Sample Name: Poly(4-methyl styrene)

Sample #: P1346-4MeS

Structure:

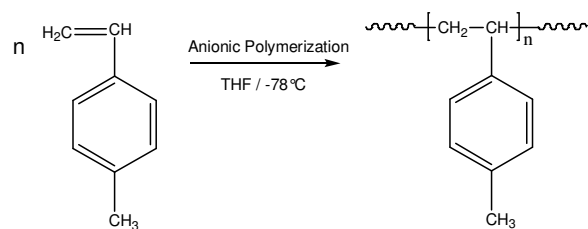


Composition:

Mn x 10 ³	PDI
40.5	1.06

Synthesis Procedure:

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



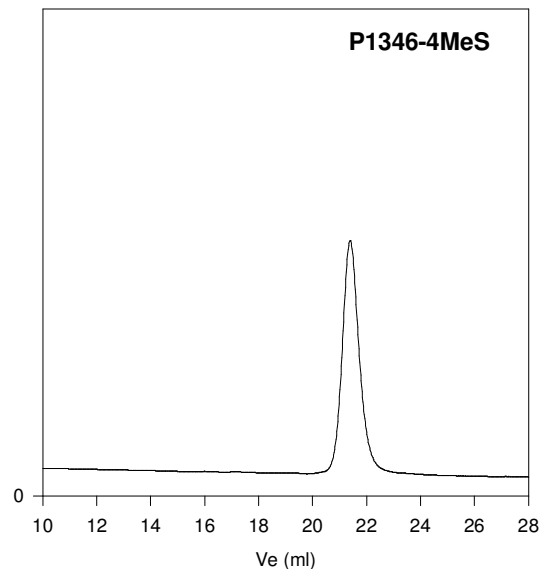
Characterization:

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

Solubility:

Poly(4-methyl styrene) is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:



Size Exclusion Chromatograph of Poly(4-methylstyrene)

M_n=40500, M_w=42900, M_z=45200, M_w/M_n=1.06