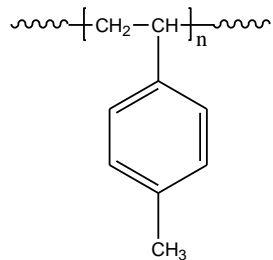


Sample Name: Poly(4-methyl styrene)

Sample #: P8217-4MeS

Structure:

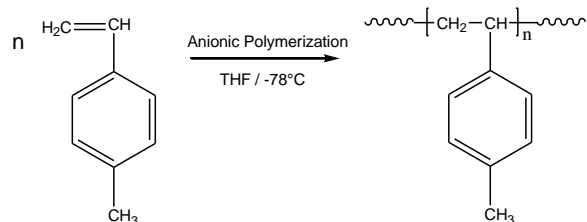


Composition:

$M_n \times 10^3$	PDI
52.0	1.08

Synthesis Procedure:

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



Characterization:

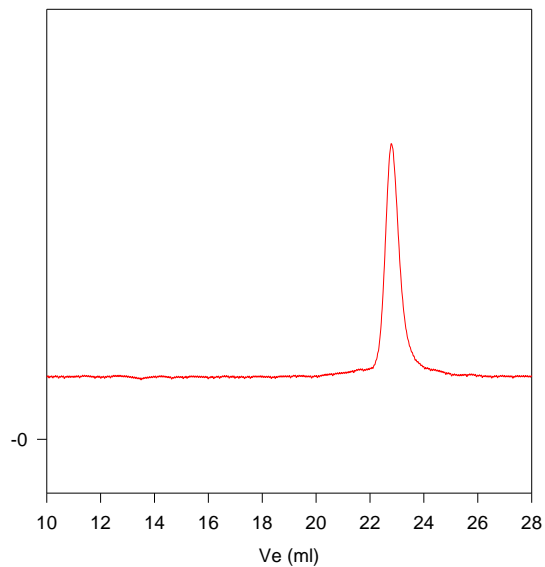
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Solubility:

Poly(4-methyl styrene) is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P8217-4MeSt



Size Exclusion Chromatograph of Poly(4-methylstyrene)

$M_n=52000$, $M_w=56000$, $M_w/M_n=1.08$