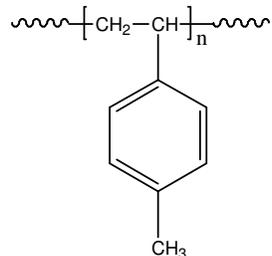


Sample Name: Poly(4-methyl styrene)

Sample #: P1177-4MeS

Structure:

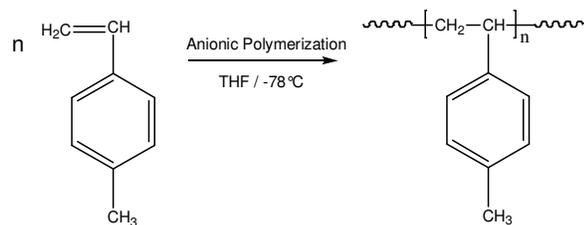


Composition:

Mn x 10 ³	PDI
2.5	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.



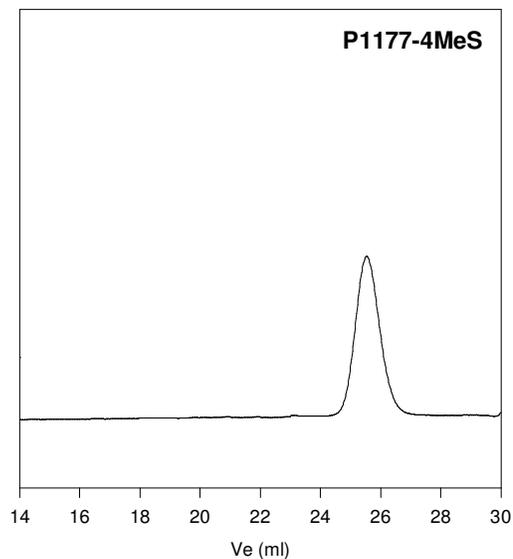
Characterization:

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

SEC of Homopolymer:



Size exclusion chromatograph of poly 4-methyl styrene:

$M_n=2500$, $M_w=2700$, $M_z=2900$, $PI=1.08$