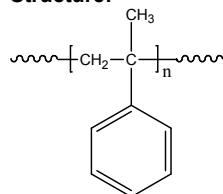


Sample Name: Poly(α -methyl styrene)

Sample #: P74-MeS

Structure:

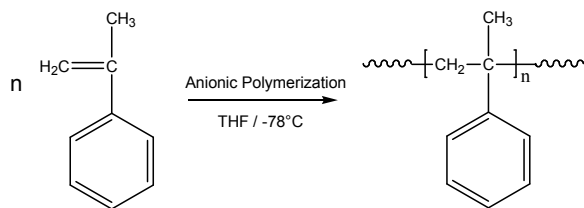


Composition:

$M_n \times 10^3$	PDI
32.3	1.02

Synthesis Procedure:

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



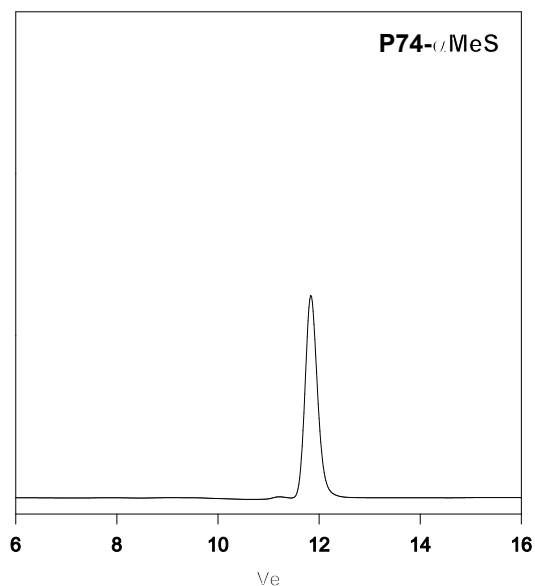
Characterization:

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

Solubility:

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

SEC of Homopolymer:



Size exclusion chromatography of Poly(α -methyl styrene) with respect to Polystyrene standards:

$M_n=32300$, $M_w=33000$, $M_w/M_n=1.02$