

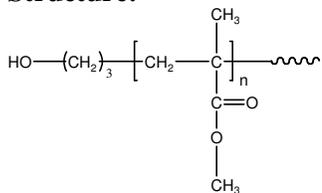
Sample Name: Hydroxy Terminated Poly(methyl methacrylate)

SEC elugram of the polymer:

P2595-MMAOH

Sample #: P2595-MMAOH

Structure:

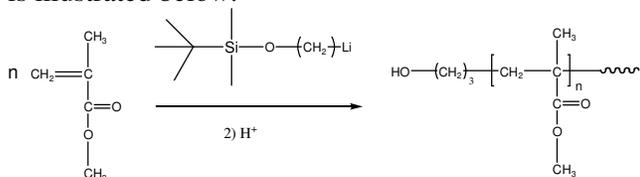


Composition:

$M_n \times 10^3$	PDI
4.0	1.11

Synthesis Procedure:

Hydroxyl terminated poly(methyl methacrylate) was synthesized by living anionic polymerization using a hydroxyl protected initiator. The scheme of the reaction is illustrated below:

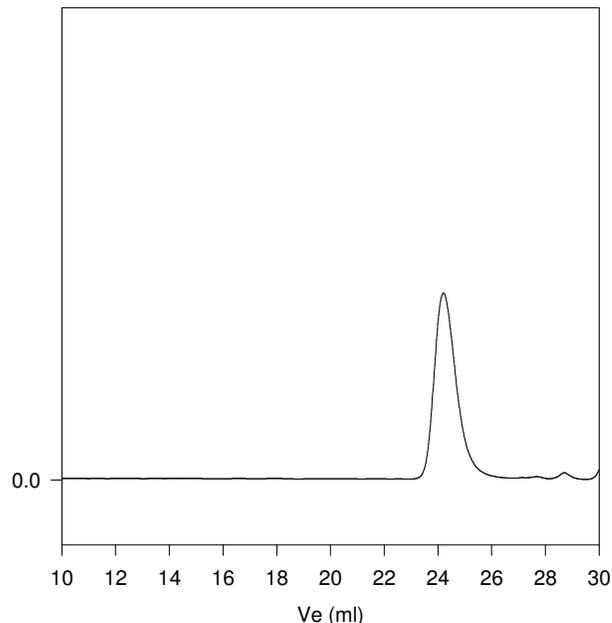


Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

Polymer is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes



Size Exclusion Chromatogram of Poly(methylmethacrylate)

$M_n=4000$, $M_w=4400$, $M_w/M_n=1.11$
(OH functionality by titration: >98%)