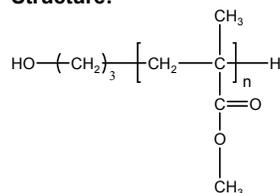


Sample Name: Hydroxy Terminated Poly(methyl methacrylate)

Sample #: P6609-MMAOH

Structure:

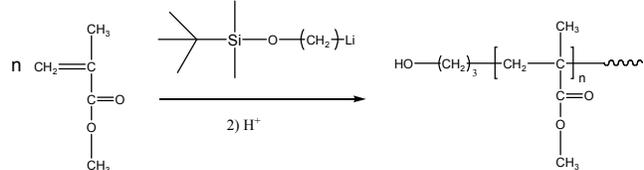


Composition:

Mn x 10 ³	PDI
6.5	1.18

Synthesis Procedure:

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



Characterization:

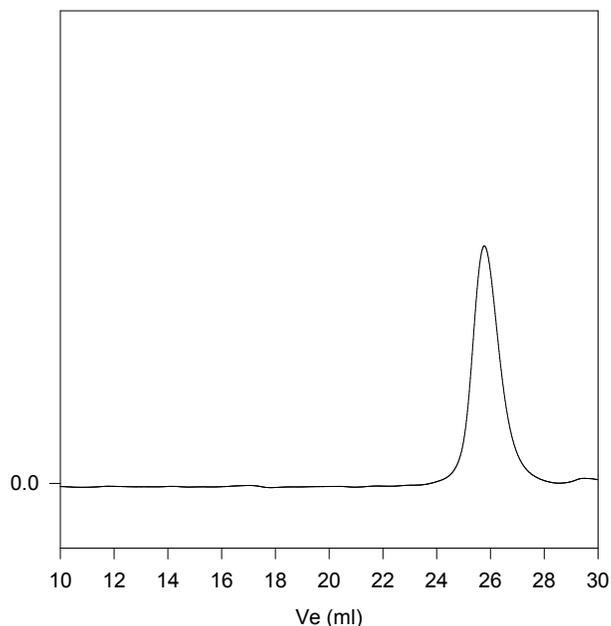
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

Polymer is soluble in DMF, THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes

SEC of Sample:

P6609-MMAOH



Size Exclusion Chromatogram of polymer:
 — M_n=6500, M_w=7700, M_w/M_n=1.18
 (OH functionality by titration: >98%)