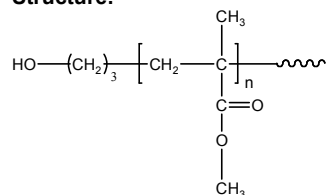


Sample Name: Hydroxy Terminated Poly(methyl methacrylate)

Sample #: P2590-MMAOH

Structure:

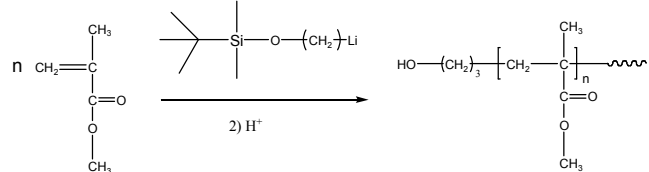


Composition:

Mn x 10 ³	PDI
3.0	1.06

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:

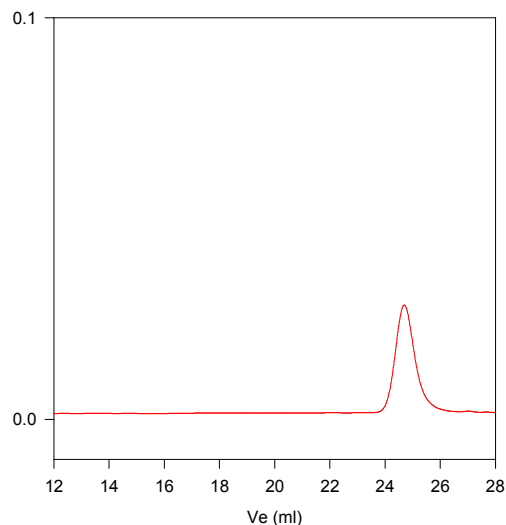
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

P2950-MMAOH



Size Exclusion Chromatography of Hydroxyl Terminated Poly(methyl methacrylate):

M_n=3000, M_w=3200, PI=1.06 (functionality >98%)