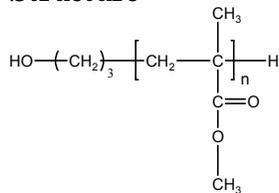


**Sample Name: Hydroxy Terminated Poly(methyl methacrylate)**

**Sample #: P10414-MMAOH**

**Structure:**

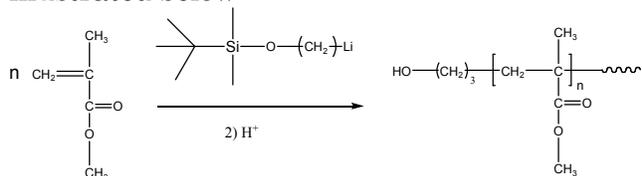


**Composition:**

$M_n \times 10^3$	PDI
589.0	1.4
$T_g$ (°C)	125 oC

**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.

**Thermal Analysis:**

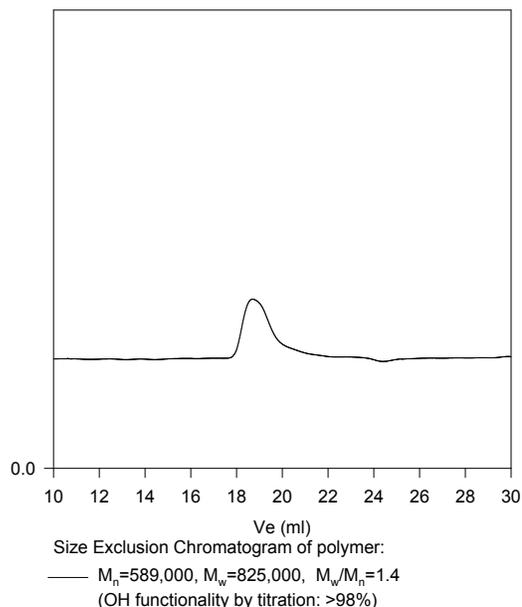
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature ( $T_g$ ) of the sample has been considered.

**Solubility:**

Polymer is soluble in DMF, THF, toluene and  $\text{CHCl}_3$ . It precipitates from methanol, ethanol, water and hexanes

**SEC of Sample:**

**P10414-MMAOH**



**DSC thermogram for the sample:**

