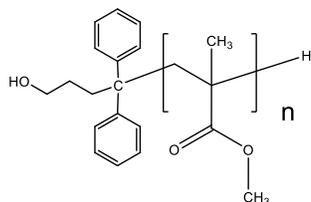


Sample Name: Poly(methyl methacrylate), α -hydroxypropyl-terminated

Sample #: P42589-MMAOH

CAS registry number: 9011-14-7

Structure:

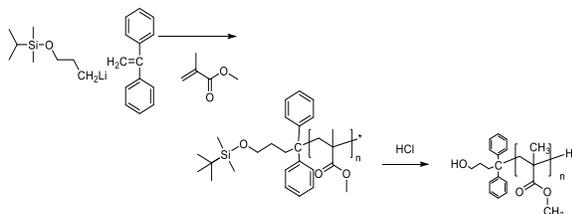


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
151.0	1.65

Synthesis Procedure:

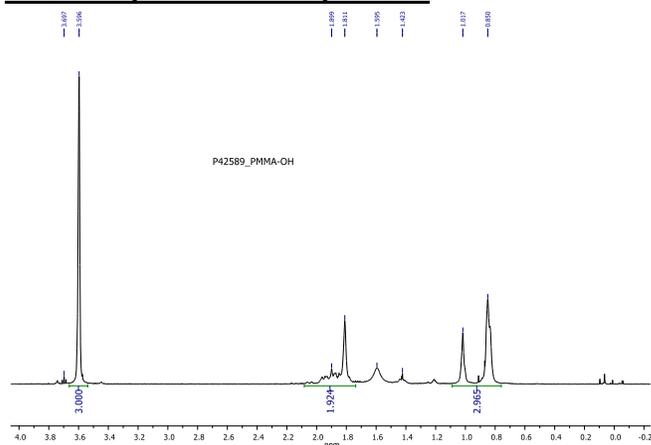
Poly(methyl methacrylate) was obtained by living anionic polymerization of methyl methacrylate. The scheme of reaction is presented below.



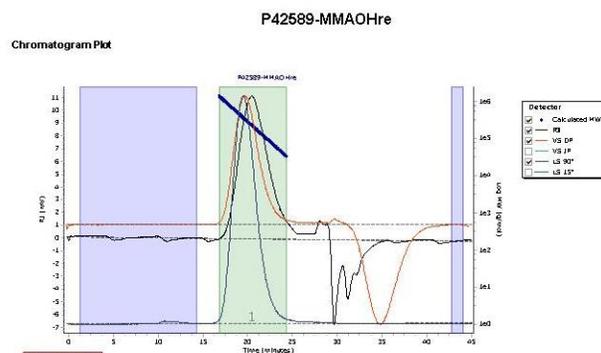
Characterization:

The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC). SEC analysis was performed on Agilent Technologies 1260 Infinity II GPC/SEC system equipped with triple detector, three columns and using tetrahydrofuran (THF) as a mobile phase.

1 H NMR Spectrum of the product:



SEC chromatogram of the polymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mu (g/mol)	PD
Peak 1	228798	150705	246873	371113	485423	353628	1.651

Processing Parameters
 Method: RI
 Concentration Detector Used in Analysis: RI
 Injection volume (μ L): 100.00
 Flow rate (mL/min): 1.00
 Concentration options: Calculate Sample Concentration from Entered Sample Properties
 Entered dn/dc (mL/g): 0.088