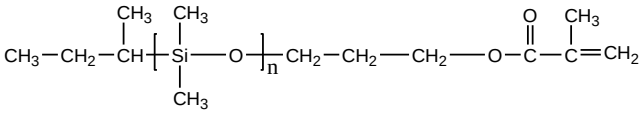
Sample Name:
Methacrylate Terminated Polydimethylsiloxane

Sample #: **P8369-DMSMA**

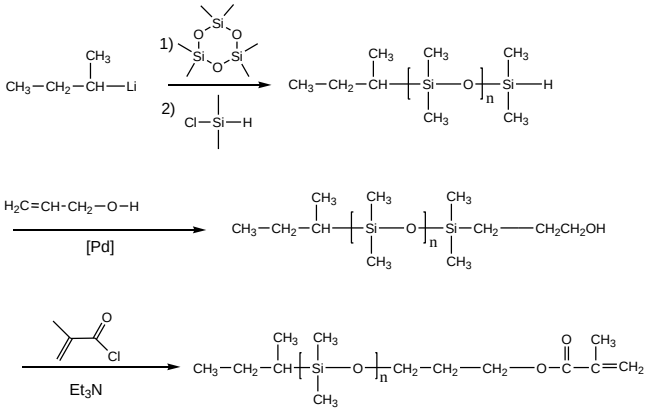
Structure:



Composition:

Mn x 10^3	PDI
1.0	1.2

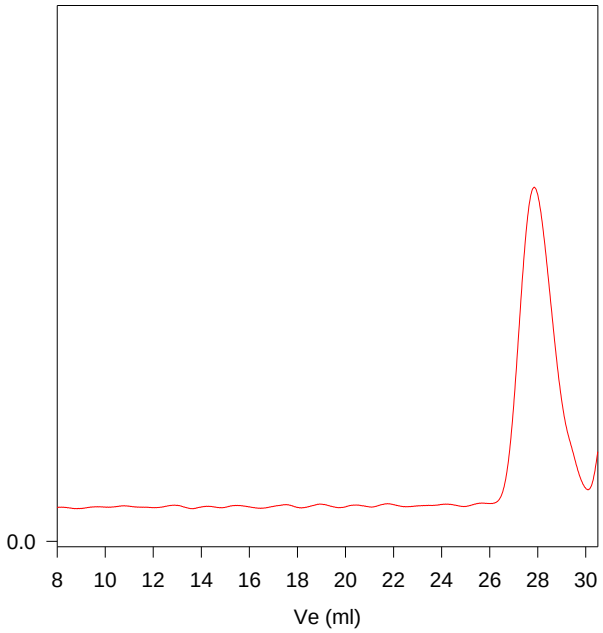
Synthesis Procedure:
Methacrylate terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethylcyclotrisiloxane(D3) followed by hydrosilation with allyl alcohol and esterification with the methacryl-moiety. The scheme of the reaction is illustrated below:



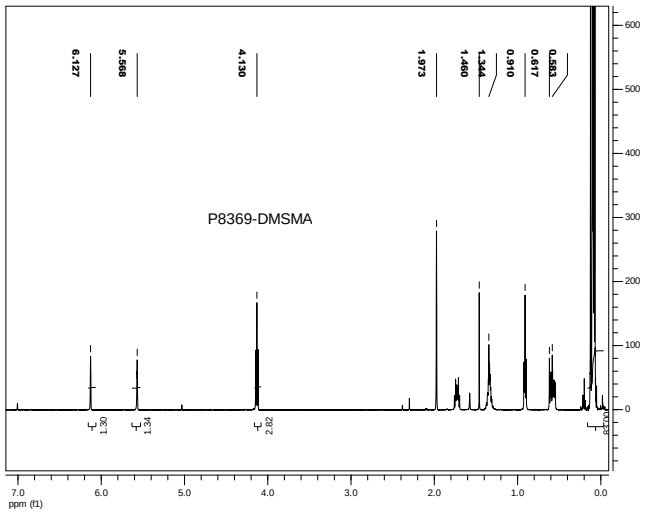
Characterization:
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

SEC of Sample:

P8369-DMSMA



Size Exclusion Chromatography in THF at 35 °C w.r.t PDMS standards.

M_n =1000, M_w =1200, PI=1.2 "f" > 95%

H NMR of the polymer: