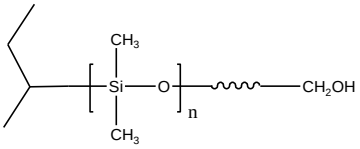
Sample Name:
Hydroxy (carbinol) Terminated Polydimethylsiloxane-Monofunctional

Sample #: **P8364-DMSOH**

Structure:

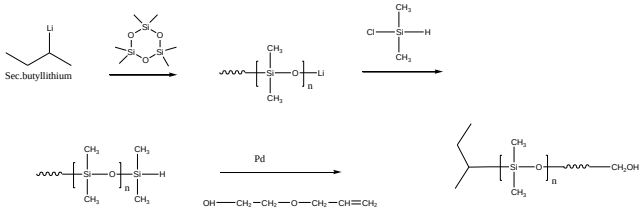


Composition:

Mn x 10^3	PDI
10.0	1.09

Synthesis Procedure:

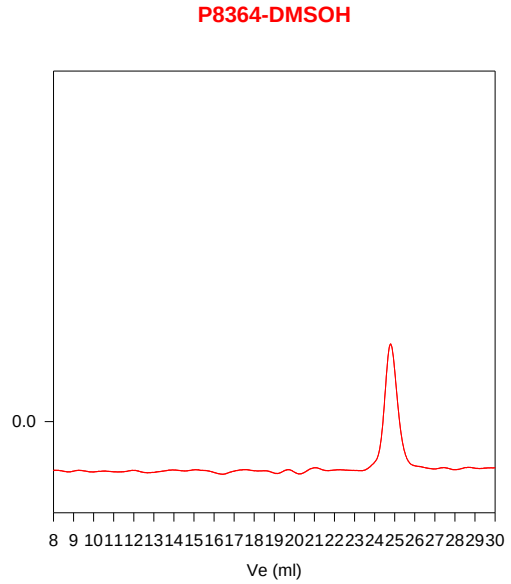
monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. The scheme of the reaction is illustrated below:



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:



Size exclusion chromatography of monocarbinol terminated poly(dimethyl siloxane):

M_n=10,000, M_w=10900 M_w/M_n=1.09, functionality=0.94%

Reference:

1. J.X. Zhang, S.K. Varshney, "Simple Approach for the Scale-up Production of Block Copolymer of Polydimethylsiloxane with (Meth)acrylic Ester Monomers" Designed Monomers and Polymers, 2002, 1, 79.