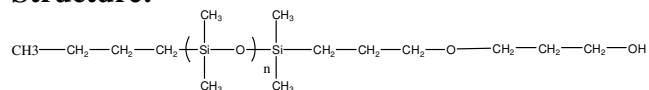


Sample Name:

**Hydroxy (carbinol) Terminated
Polydimethylsiloxane-Monofunctional**

Sample #: **P10627B-DMSOH**

Structure:



Composition:

M _n (g/mol)	M _w /M _n	Dp of DMS
1,100	1.15	15 units

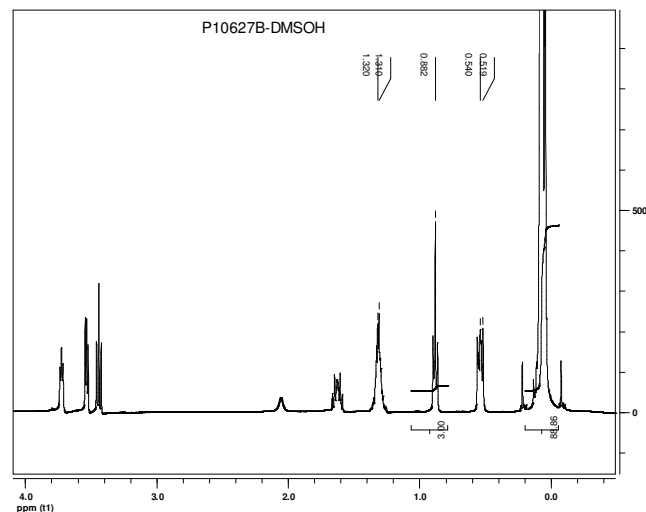
Synthesis Procedure:

Monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. For more details, please, see the reference.

Characterization:

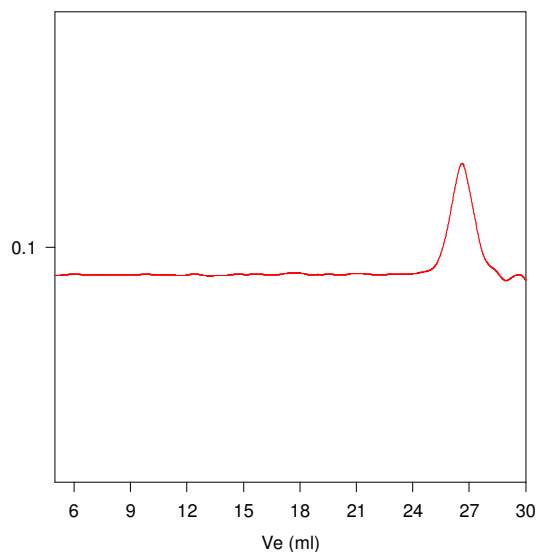
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detectors.

¹H NMR:



SEC:

P10627B-DMSOH (carbinol)



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

M_n=1,100, M_w=1,300 M_w/M_n=1.15, functionality>99%

Reference:

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.