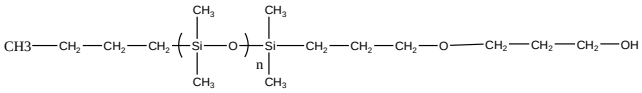
Sample Name:
Hydroxy (carbinol) Terminated Polydimethylsiloxane-Monofunctional

Sample #: **P8712-DMSOH**

Structure:



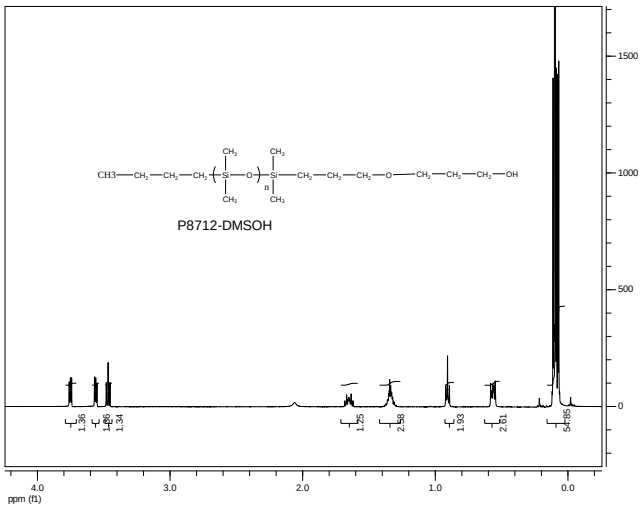
Composition:

Mn x 10^3	PDI
0.8	1.10

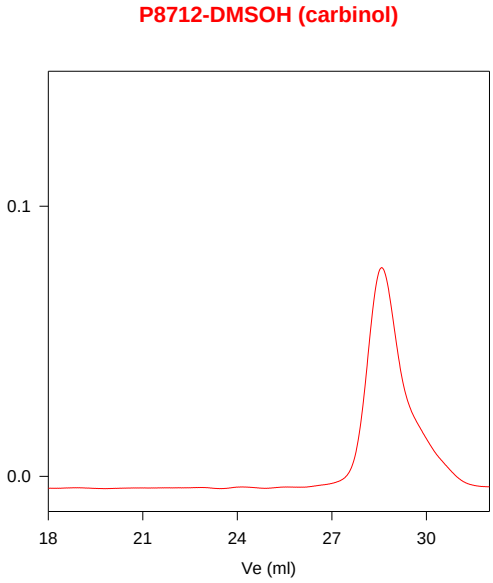
Synthesis Procedure:
Monohydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. For the details please see the reference.

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 detector.

H NMR:



SEC of Sample:



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

M_n=800, M_w=900 M_w/M_n=1.10, functionality=0.94%

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.