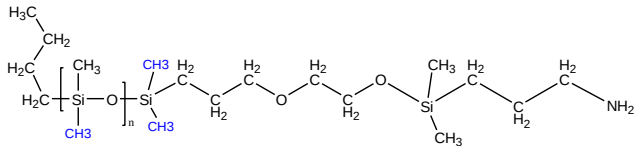
Sample Name:

Amino Terminated Polydimethylsiloxane

Sample #: **P19164A-DMSNH2**

Structure:



Composition:

Mn x 10^3	PDI
1.0	1.15
NH2 by titration	> 99%

Synthesis Procedure:

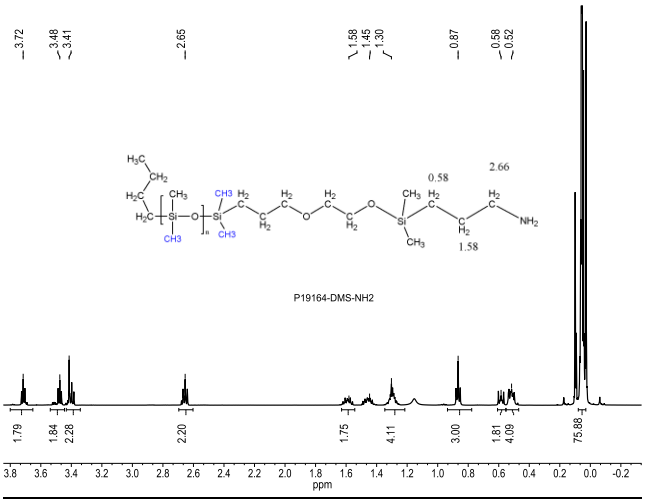
Amino terminated polydimethylsiloxane was prepared by anionic living polymerization of hexamethyl cyclotrisiloxane .

Ref: 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.

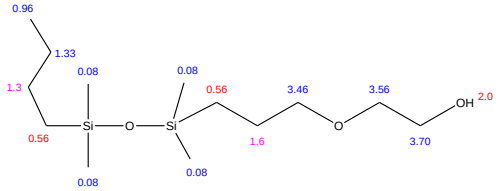
Characterization:

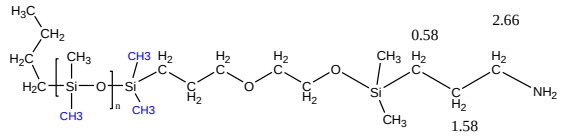
By HNMR and GPC; FTIR analysis

H NMR:

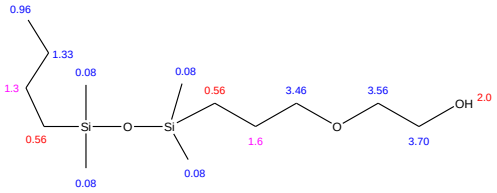


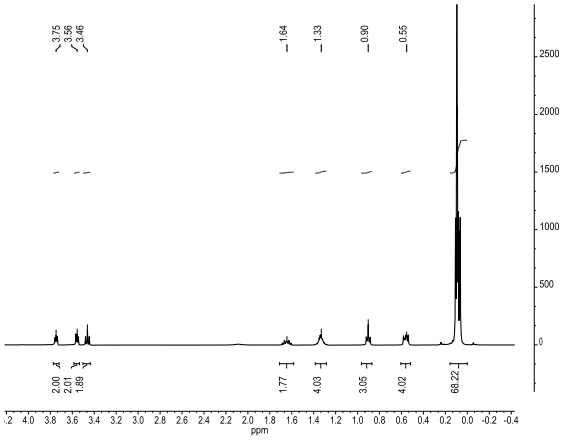
Chemical Shifts :



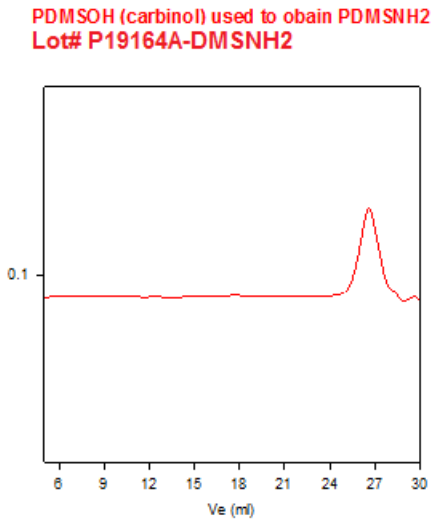


PDMS Monocarbinol:





SEC of Sample:



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

M_n=1,000, M_w=1,150 M_w/M_n=1.15, functionality>99% (cabinol)