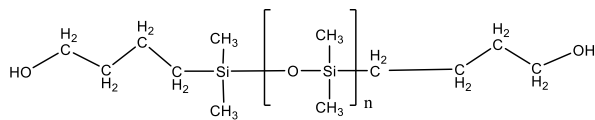


Sample Name:

α , ω -dicarbinol Terminated Polydimethylsiloxane Linker Butyl

Sample #: **P42638-DMS2OH**

Structure:

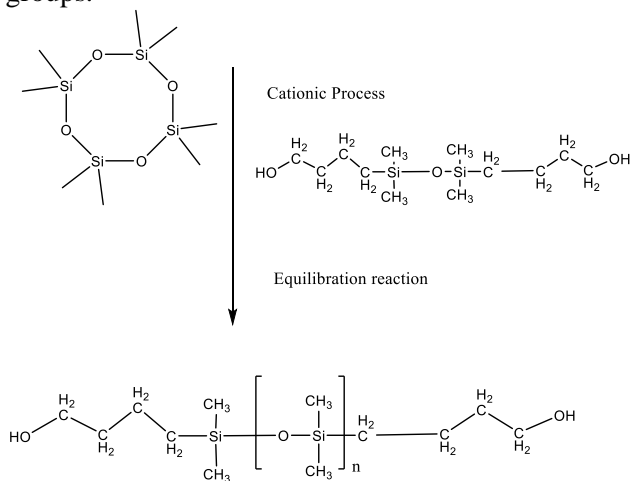


Composition:

$M_n \times 10^3$	PDI
12.0	1.3
Dp 162 units	

Synthesis Procedure:

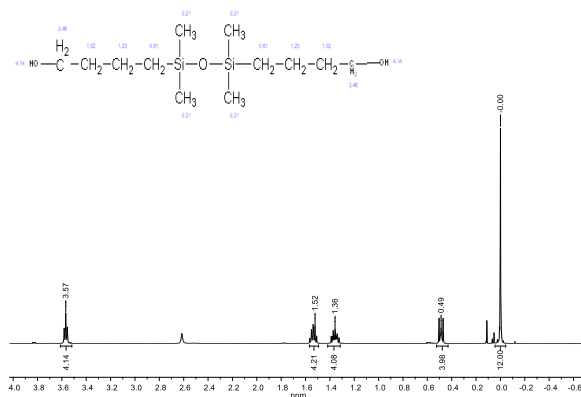
Dihydroxyl (carbinol) terminated poly(dimethyl siloxane) was prepared by living anionic polymerization of octamethyl cyclotetra-siloxane. Silanol end groups were then modified to carbinol end groups.



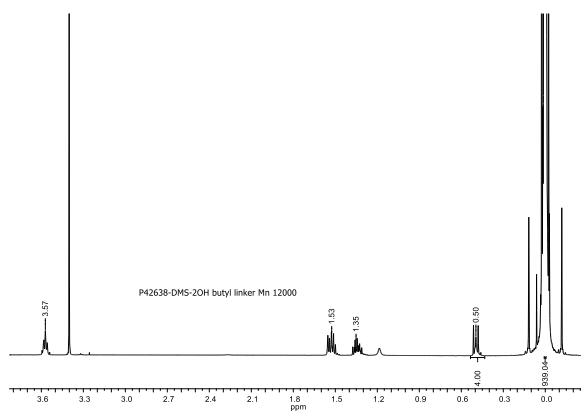
Characterization:

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.

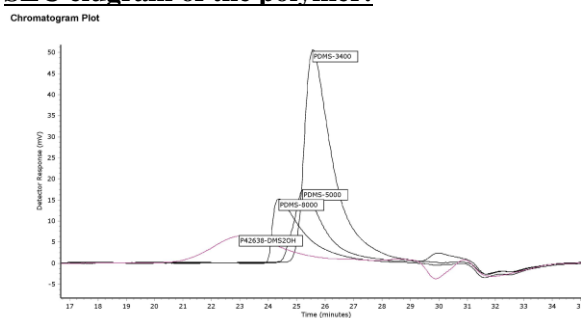
$^1\text{H-NMR}$ spectrum of the Linker:



$^1\text{H-NMR}$ spectrum of the Polymer:



SEC elugram of the polymer:



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.