

Sample Name:

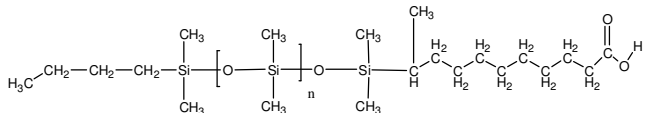
Mono Carboxy decyl Terminated PDMS.

Or

Mono undecanoic acid terminated PDMS.

Sample #: **P18613A-DMSC10COOH**

Structure:

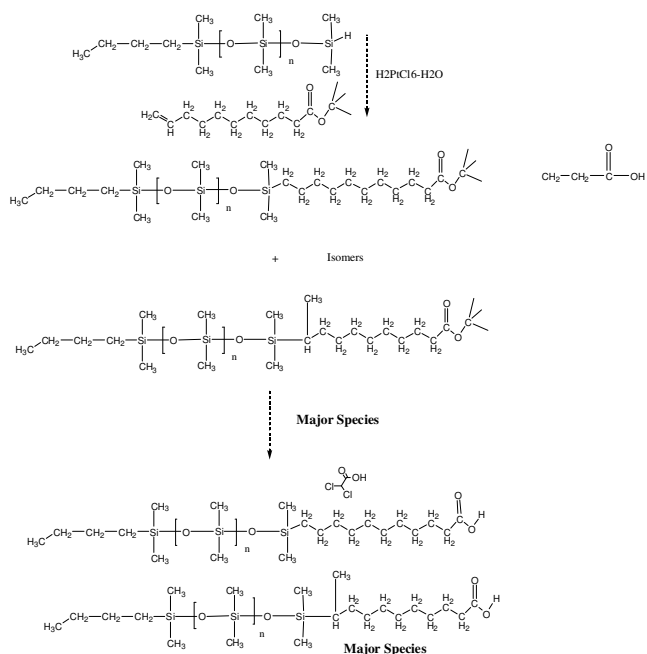


Composition:

Mn x 10 ³	PDI
2.7	1.2

Synthesis Procedure:

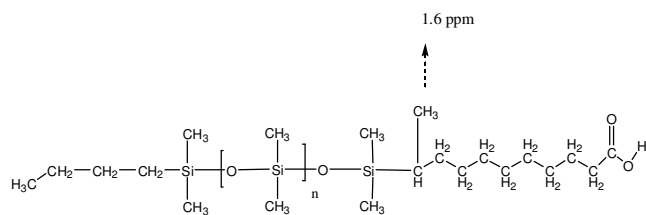
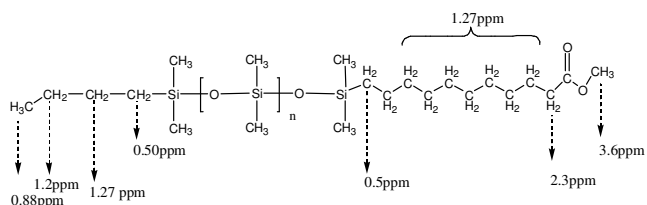
Carboxy terminated polydimethylsiloxane was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane,



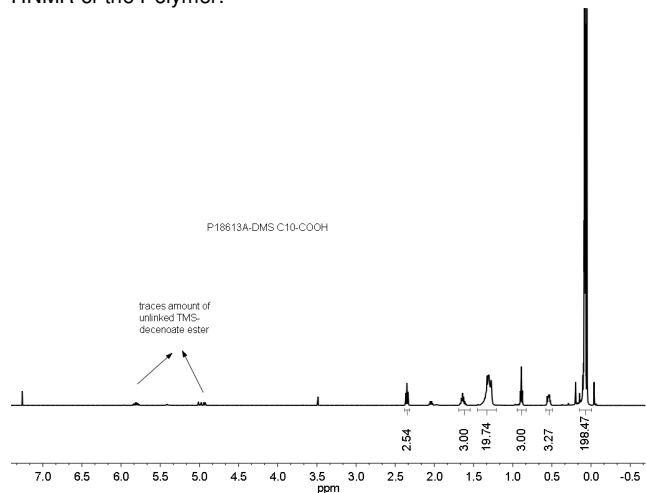
Characterization:

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.

Solubility: Polymer Soluble in hexane, THF, CHCl₃.

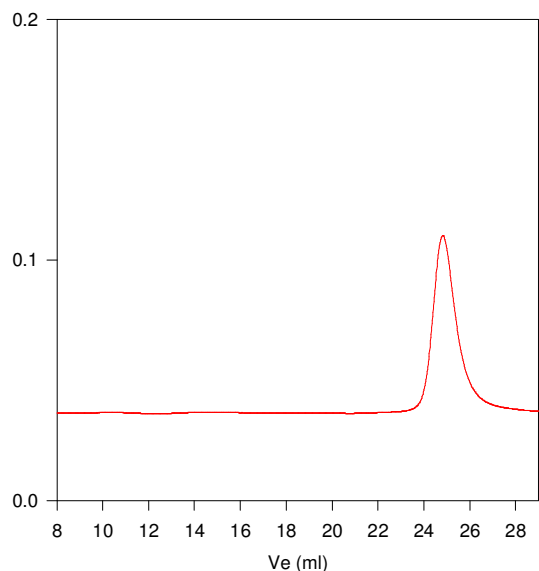


HNMR of the Polymer:



SEC of Sample:

P18613-DMSSiH



Size Exclusion Chromatography of Poly(dimethyl siloxane)
DMS-SiH form

M_n=2,700, M_w=3,500, PI=1.2

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.