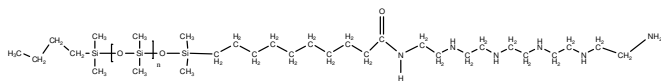


Sample Name:

Pentaethylene hexamine terminated poly dimethylsiloxane,

Sample #: **P18613A-DMSC10-PEHA**

Structure:

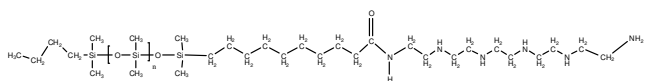
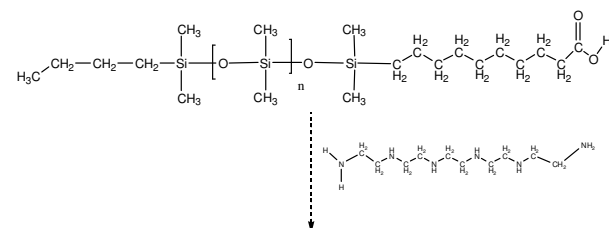
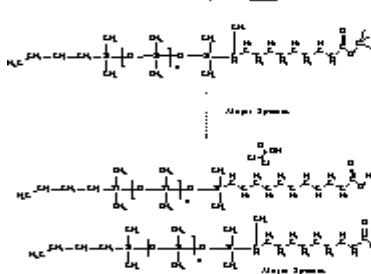
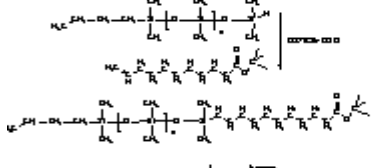


Composition:

Mn x 10 ³	PDI
2.8	1.2

Synthesis Procedure:

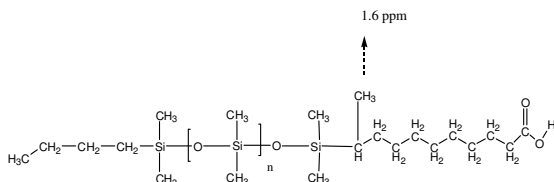
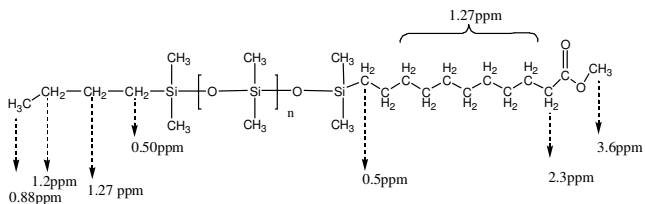
Out line of the procedure is as follows.:



Characterization:

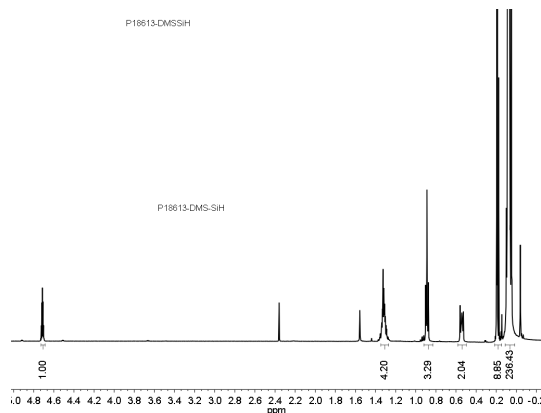
By size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector, and by HNMR.

Solubility: Polymer Soluble in hexane, THF, CHCl₃.

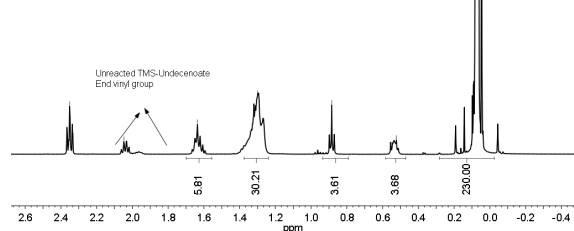


HNMR of the Polymer:

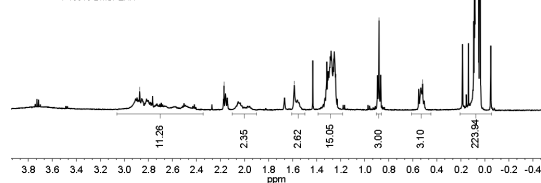
P18613-DMSSiH



P18613-DMS-decano-COOH

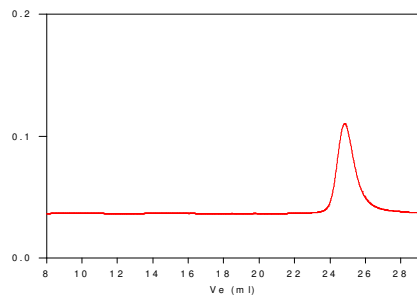


P18613-DMSPeHA



SEC of Sample:

P18613-DMSSiH



Size Exclusion Chromatography of Poly(dimethyl siloxane)
DMS-SiH form
M_w=2,800, M_n=3,500, PDI=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.