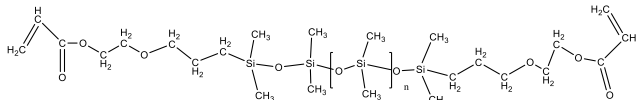


Sample Name:

**Poly(dimethylsiloxane),  $\alpha,\omega$ -bis(acryloxy)-terminated**

Sample #: **P41890-DMS2acrylate**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
5.0	1.6

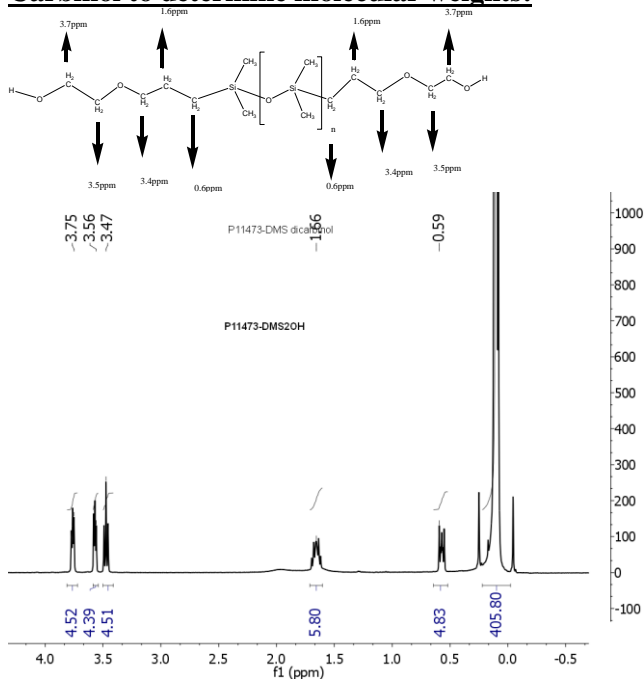
**Synthesis Procedure:**

Poly(dimethylsiloxane),  $\alpha,\omega$ -bis(acryloxy)-terminated was prepared by living anionic polymerization of hexamethyl cyclotrisiloxane. Silanol end groups were then modified to carbinol end groups followed by acrylate moiety.

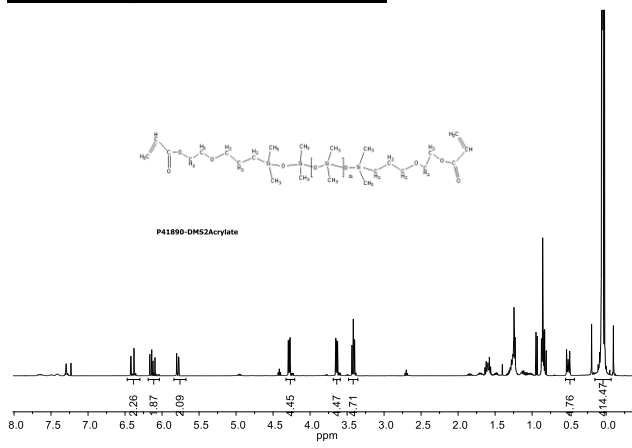
**Characterization:**

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.

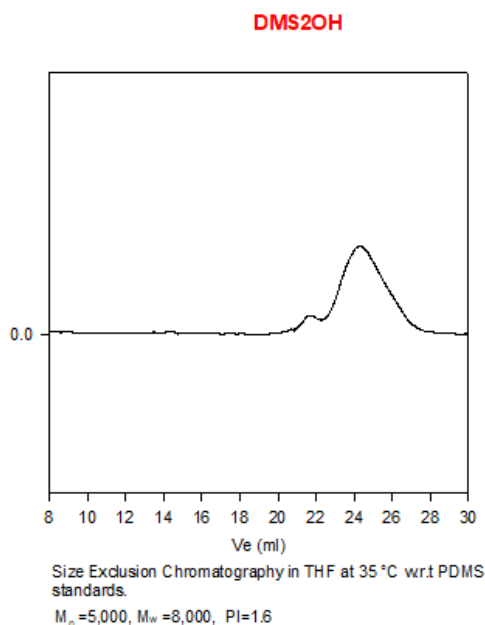
**HNMR of the PDMS end functionalized with Carbinol to determine molecular weights:**



**H NMR spectrum of Polymer:**



**SEC of Homopolymer:**



**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.