

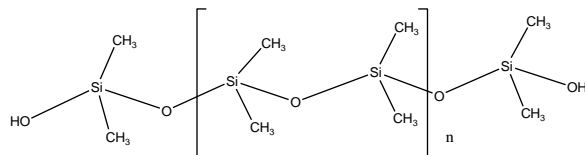
SEC of Homopolymer:

P11100B-DMS

Sample Name: Polydimethyl siloxane-Disilanol

Sample #: P11100B-DMS
Silanol end terminated

Structure:



Composition:

$M_n \times 10^3$	PDI
2.5	1.09
$T_m (^{\circ}\text{C})$: -42	$T_c (^{\circ}\text{C})$: -71 $T_g (^{\circ}\text{C})$: -127 (Lit.)

Synthesis Procedure:

By anionic polymerization process.

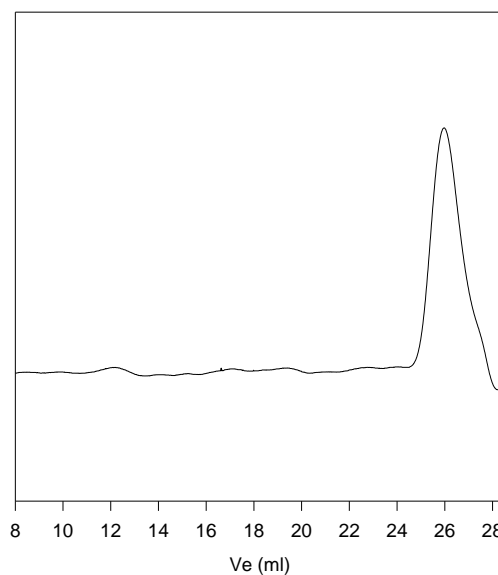
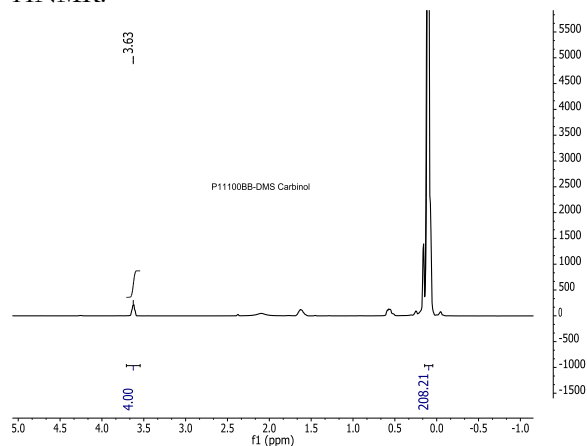
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers. .

Solubility:

Polysiloxane is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

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



Size Exclusion Chromatography in THF at 35 °C w.r.t PDMS standards.

M_n =2,500, M_w =2,700, PI =1.09