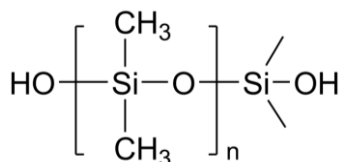


Sample Name:

**Poly(dimethyl siloxane),  $\alpha,\omega$ -bis(silanol)-terminated**

Sample #: **P43499C-DMS**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
20.5	1.9

$T_m$ (°C): -42
$T_c$ (°C): -71
$T_g$ (°C): -127 (Lit.)

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process.

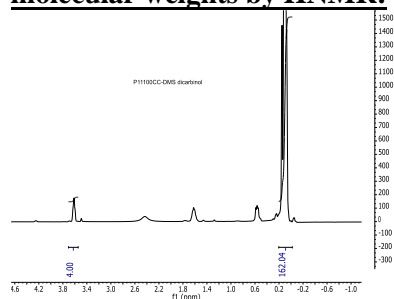
**Characterization:**

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.

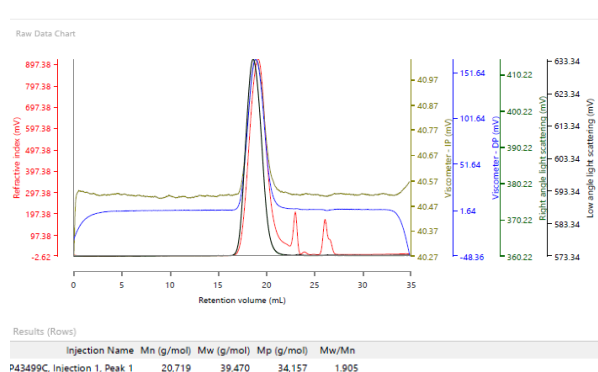
**Solubility:**

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

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



**SEC elugram of Homopolymer:**



Injection Name	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mw/Mn
P43499C, Injection 1, Peak 1	20.719	39.470	34.157	1.905