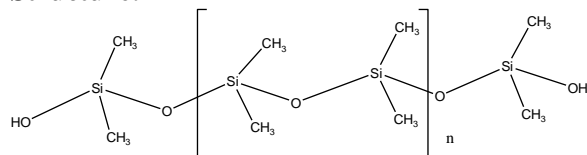


**Sample Name:** Poly (dimethyl siloxane),  $\alpha,\omega$ -bis(silanol)-terminated

**Sample #:** P41905-DMS

**Structure:**



**Composition:**

| Mn  | PDI  |
|-----|------|
| 1.6 | 1.02 |

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

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process.

**Characterization:**

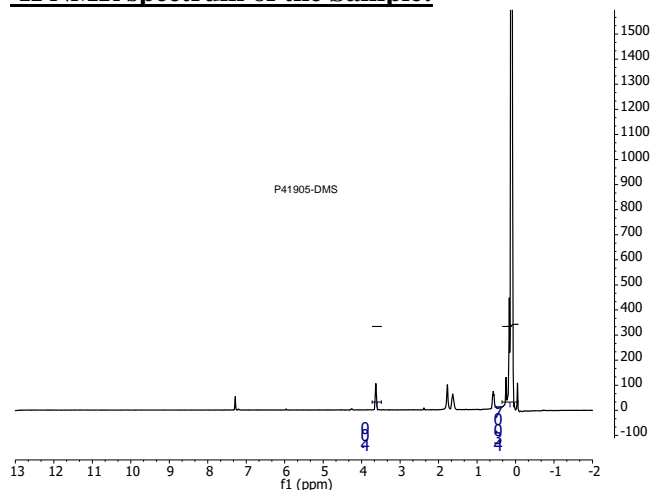
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers.

$^1\text{H}$  NMR of the PDMS end functionalized with Carbinol was used to determine molecular weights.

**Solubility:**

Poly (dimethyl siloxane),  $\alpha,\omega$ -bis(silanol)-terminated is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

**$^1\text{H}$  NMR spectrum of the Sample:**



**SEC elugram of Homopolymer:**

Agilent GPC/SEC Software

