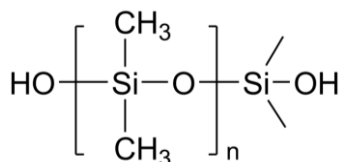


Sample Name:

Poly(dimethyl siloxane), α,ω -bis(silanol)-terminated

Sample #: P43499-DMS

Structure:



Composition:

Mn x 10 ³	PDI
9.5	1.5

T _m (°C): -42 T _c (°C): -71 T _g (°C): -127 (Lit.)
--

Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

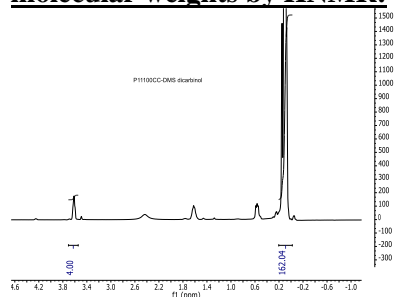
Characterization:

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.

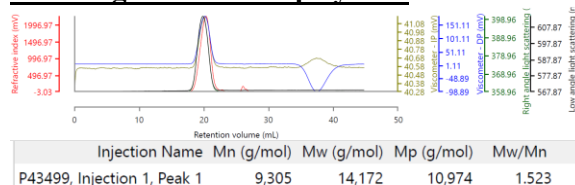
Solubility:

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
P43499, Injection 1, Peak 1	9,305	14,172	10,974	1.523