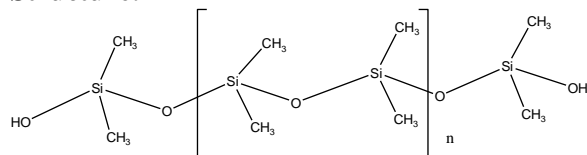


Sample Name: Poly (dimethyl siloxane), α,ω -bis(silanol)-terminated

Sample #: P41709B-DMS

Structure:



Composition:

Mn	PDI
1.9	1.2

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

The polymer was synthesized by anionic polymerization process.

Characterization:

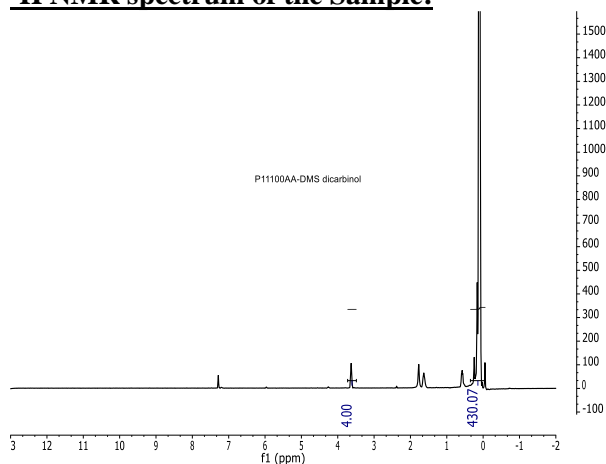
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers.

^1H NMR of the PDMS end functionalized with Carbinol was used to determine molecular weights.

Solubility:

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

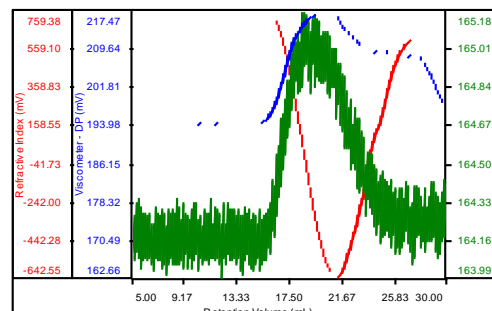
^1H NMR spectrum of the Sample:



SEC elugram of Homopolymer:

P41709B-DMS-2SIOH

dn/dc	0.0900
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July2019-0001.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
2019-07-27_16:49:48_P41709B_01.vdt	1,863	2,240	3,189	0.0250	1.202