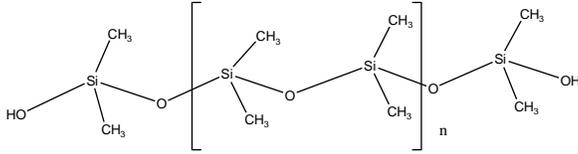


Sample Name: Poly (dimethyl siloxane), α,ω -bis(silanol)-terminated

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:

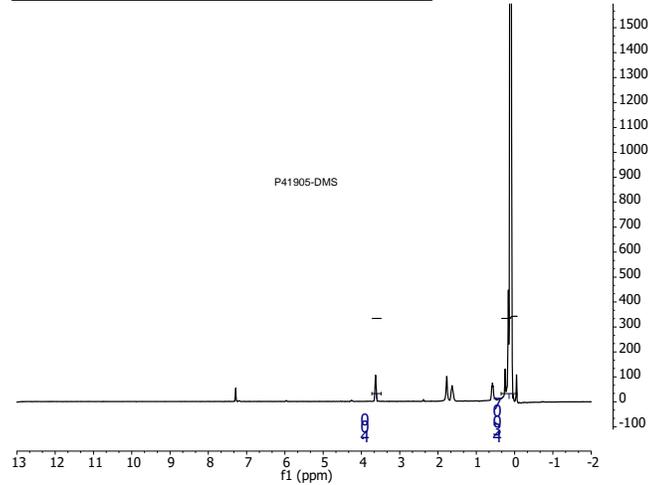
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography in toluene. SEC was calibrated with well characterized poly dimethyl siloxane polymers.

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

Solubility:

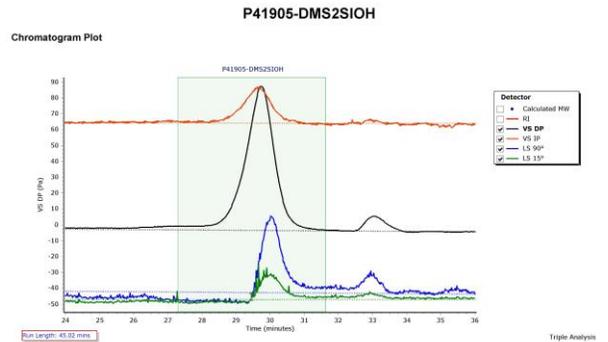
Poly (dimethyl siloxane), α,ω -bis(silanol)-terminated is soluble in hexane, toluene, cyclohexane, THF and chloroform but precipitates from methanol and ethanol.

¹H NMR spectrum of the Sample:



SEC elugram of Homopolymer:

Agilent GPC/SEC Software



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	1614	1606	1607	1608	1610	1608	1.001