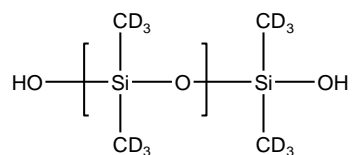


Sample Name:

Deuterated Poly (dimethylsiloxane-d6), α,ω -bis(silanol)-terminated

Sample #: **P42184A-dPDMS**

Structure:



Composition:

$\text{Mn} \times 10^3$	PDI
10.0	1.8

Synthesis Procedure:

The polymerization of the Deuterated Polydimethyl siloxane; Disilanol terminated was initiated with $\text{CF}_3\text{SO}_3\text{H}$ Cationic polymerization process.

Characterization:

The product was characterized by size exclusion chromatography (SEC), D NMR and H NMR.

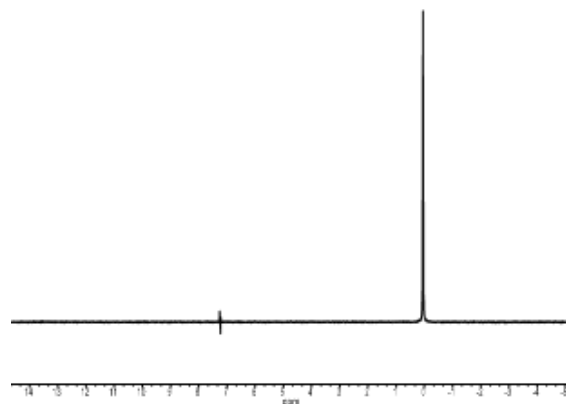
The following table is a listing of the conditions used for SEC analysis:

Parameter	Condition Used
Dissolution Solvent	Toluene
Sample Concentration	20 to 40 mg/mL
Filtration	0.2 μm Nylon syringe filter
Mobile Solvent	Toluene
Columns	2 X Malvern T3000
Flow Rate	1.0 mL/min
System Back Pressure	800 psi
Injection Volume	100 μL
Column Temperature	30°C
Detector Temperature	30°C

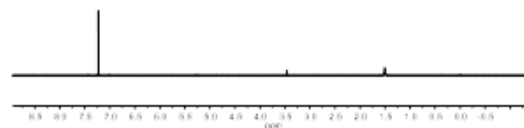
Solubility:

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

D NMR spectrum of the Sample:

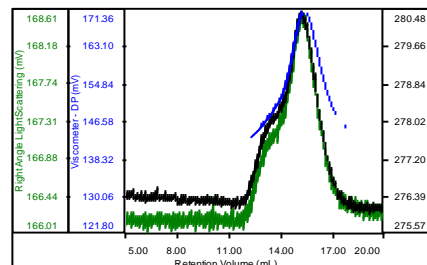


HNMR spectrum of the Sample:



SEC elugram of the Sample:

dn/dc	0.1100
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-08302019-0000.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
2019-12-23_14:52:54_P42184-b-dPDMS	10,234	18,662	42,752	0.0964	1.823