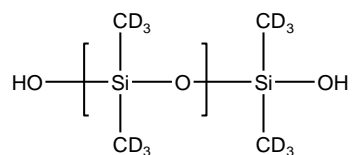


Sample Name:

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

Sample #: **P42184C-dPDMS**

Structure:



Composition:

Mn x 10 ³	PDI
106.0	2.8

Synthesis Procedure:

The polymerization of the Deuterated Polydimethyl siloxane; Disilanol terminated was initiated with CF₃SO₃H Cationic polymerization process.

Characterization:

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

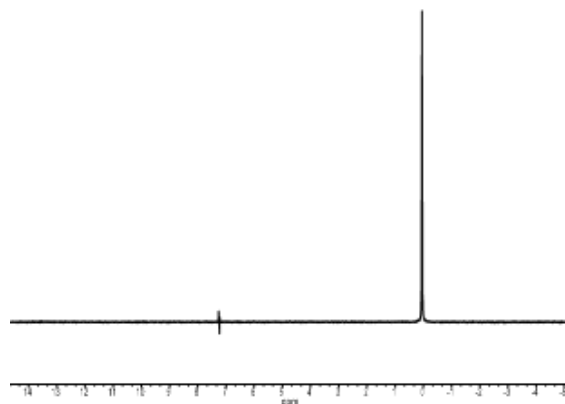
The following table is a listing of the conditions used for SEC analysis:

Parameter	Condition Used
Dissolution Solvent	Toluene
Sample Concentration	20 to 40 mg/mL
Filtration	0.2 μ m 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 μ L
Column Temperature	30°C
Detector Temperature	30°C

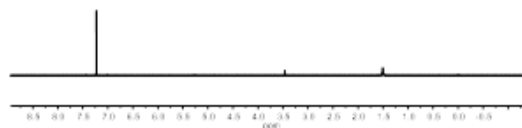
Solubility:

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

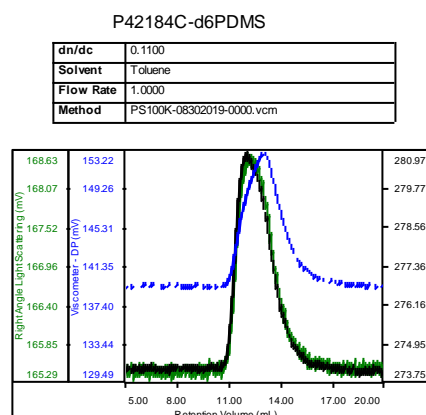
D NMR spectrum of the Sample:



HNMR spectrum of the Sample:



SEC elugram of the Sample:



Sample	Mn	Mw	Mz	IV	Mw/Mn
2019-12-23_18:31:13_P42184-C-D6E	106,221	301,205	979,661	0.4585	2.836