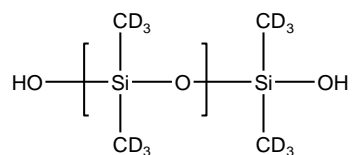


Sample Name:

Deuterated Polydimethyl siloxane; Disilanol terminated

Sample #: **P41878A-dPDMS**

Structure:



Composition:

Mn x 10 ³	PDI
10.0	1.6

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) and D NMR.

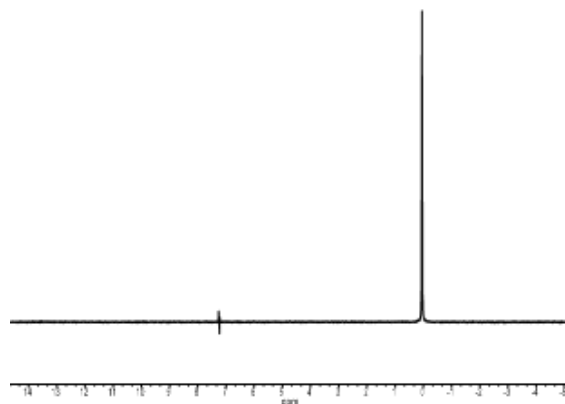
The following table is a listing of the conditions used for SEC analysis:

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 but precipitates from methanol and ethanol.

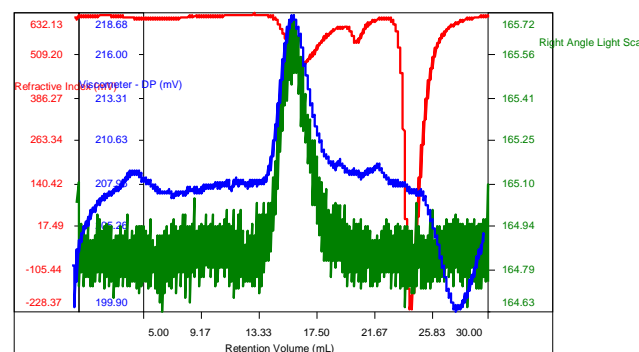
D NMR spectrum of the Sample:



SEC elugram of the Sample:

P41878A-dPDMS

dn/dc	0.0800
Solvent	Toluene
Flow Rate	1.0000
Method	PS100K-July2019-0001.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
2019-07-09_23:03:28_P41878A-d6PDMS	9,929	15,765	21,039	0.0930	1.586