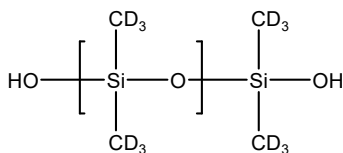


Sample Name:

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

Sample #: **P43500-dPDMS**

Structure:



Composition:

Mn x 10 ³	Mw x 10 ³	PDI
24.0	43.0	1.8

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.

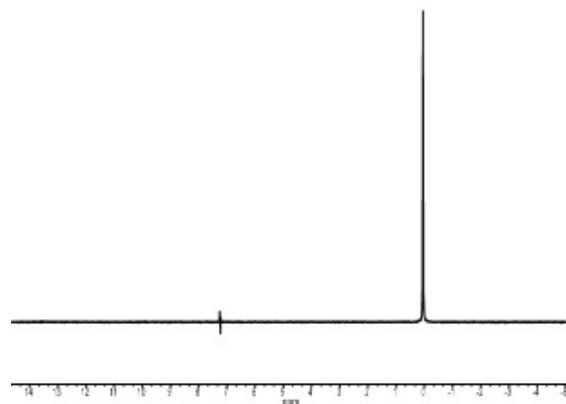
The following table is a listing of the conditions used for SEC analysis:

Parameter	Condition Used
Dissolution Solvent	Toluene
Sample Concentration	20 to 40 mg/mL
Filtration	0.2 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

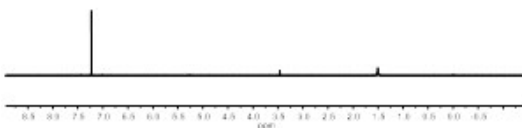
Solubility:

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

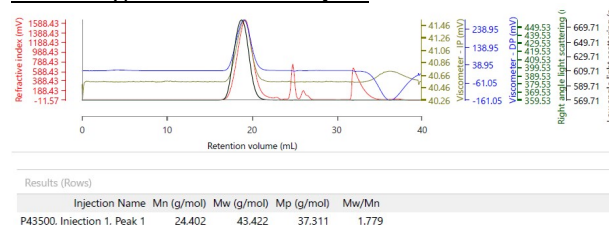
D NMR spectrum of the Sample:



HNMR spectrum of the Sample:



SEC elugram of the Sample:



Results (Rows)

Injection Name	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mw/Mn
P43500, Injection 1, Peak 1	24,402	43,422	37,311	1.779