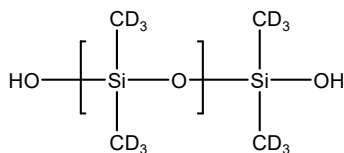


Deuterated Poly (dimethylsiloxane-d6) , α,ω -bis(silanol)-terminated

Structure:



Mn x 10 ³	Mw x 10 ³	PDI
29.0	52.0	1.8

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

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

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

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

Raw Data Chart

Sequence (Rows)

Injection Name	Sample name	Sample div/dt (mL/g)	Sequence execution date
P43396 Injection 1	P43396	0.0913	2021-09-21 11:44:22 AM

Results (Rows)

Injection Name	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mw/Mn
P43396, Injection 1, Peak 1	28,882	51,983	44,103	1.8