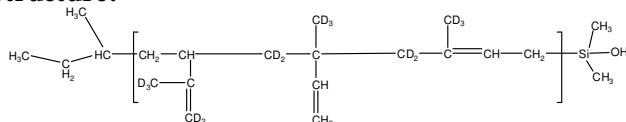


Sample Name:

**α -Silanol end-functionalized
Deuterated Polyisoprene-d5 (1,4-addition)**

Sample #: P19071A-d5IPSiOH

Structure:



Composition:

Mn x 10 ³	PDI
176.0	1.06

Synthesis Procedure:

Polyisoprene was obtained by anionic polymerization deuterated isoprene-d5.

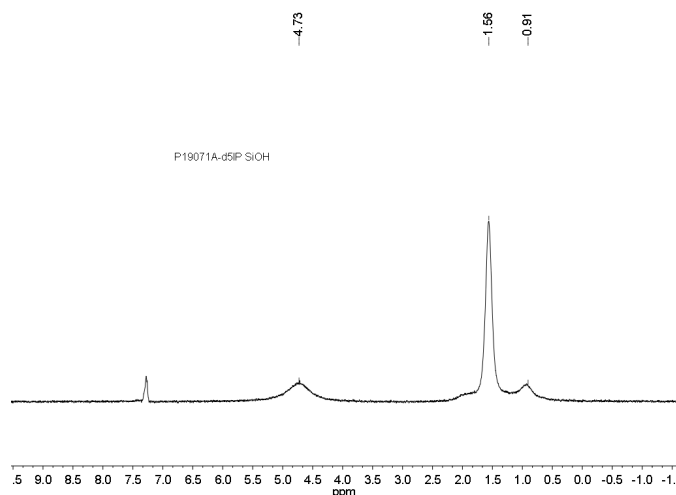
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

The polymer is soluble in THF, toluene, hexane and chloroform. The polymer precipitates from methanol.

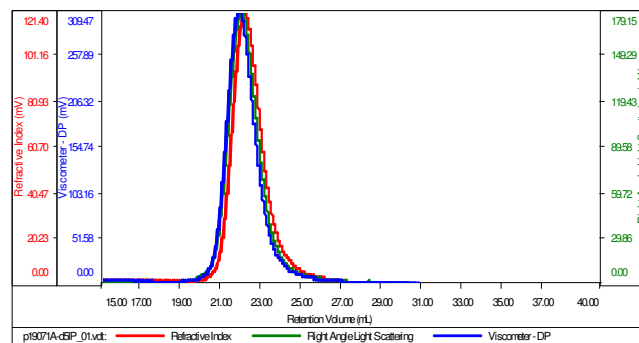
²H (D) NMR (500 MHz, CHCl₃):



SEC of the polymer:

Sample ID: P19071-d5IP

Concentration (mg/mL)	4.9004
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-Jan22-2015-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
p19071A-d5IP_01.vcl	175,999	185,979	180,225	1.057	2.1433