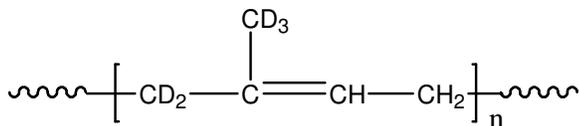


Sample Name:
Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: P18987A-d5PIP

Structure:



Composition:

Mn x 10 ³	PDI
76.0	1.05

Synthesis Procedure:

Polyisoprene is obtained by anionic polymerization deuterated (d5) isoprene.

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.

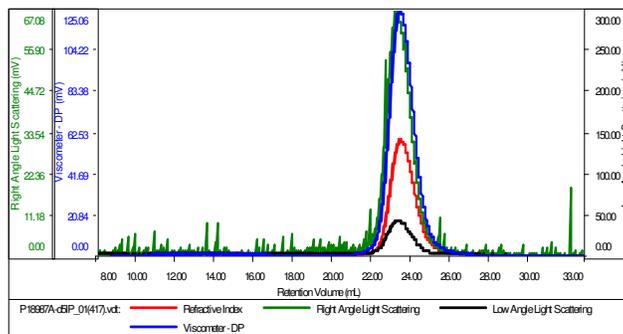
Solubility:

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

SEC of Sample:

Sample ID: P18987Ad5IP

Concentration (mg/mL)	0.9577
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-NOV27-2014-0000.vcm
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)
P18987A-d5IP_01(417).vct	75,760	79,390	76,084	1.048	4.5626