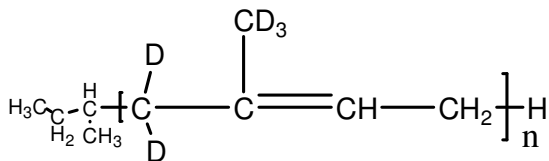


Deuterated Polyisoprene-d5 (1,4-addition)

Structure:



Mn x 10 ³	PDI
402.0	2.22

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

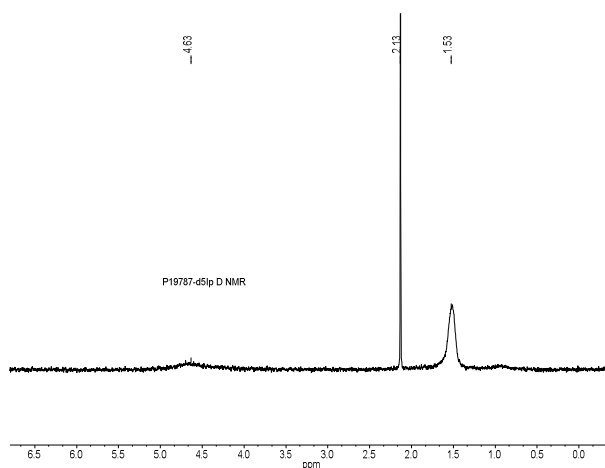
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

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

P19787-P8ip H1 NMR run in CDCl3

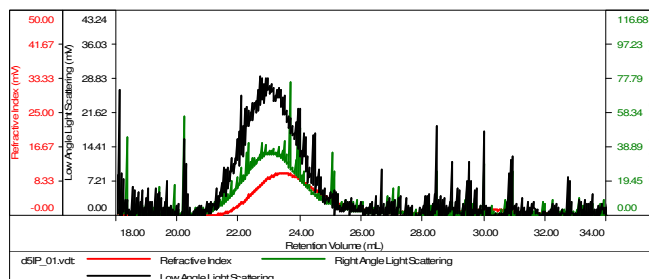
8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5

ppm



Sample ID-P19787-d51P

Concentration (mg/mL)	0.1177
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-March2016-0001.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh (Da)	Mw (Da)	Mw/Mh	IV (dL/g)	Rh (nm)	Ret Vol (mL)
d5IP_01.volt	401,060	890,577	2.221	19.6560	74.85	23.224