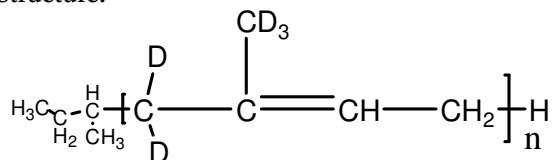


Sample Name:

Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: P19028-d5PIP

Structure:



Composition:

Mn x 10 <sup>3</sup>	PDI
1.6	1.4

Synthesis Procedure:

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

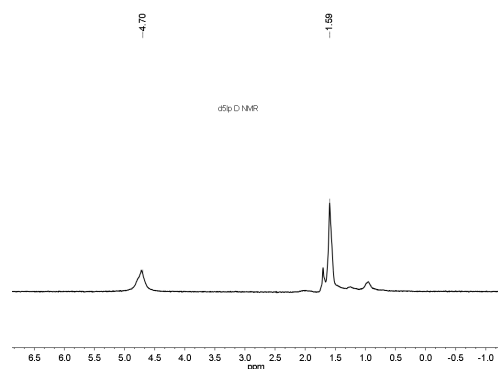
Characterization:

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.

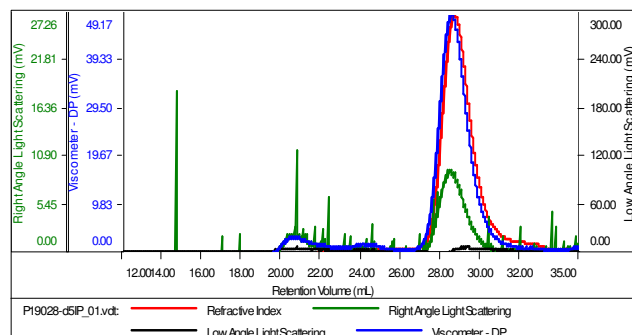
H NMR:



SEC of Sample:

Sample ID: P19028-IP

Concentration (mg/mL)	8.1468
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-Dec17-2014-0000.vom
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19028-d5IP_01.vot	1,663	2,333	2,536	1.411	0.2367