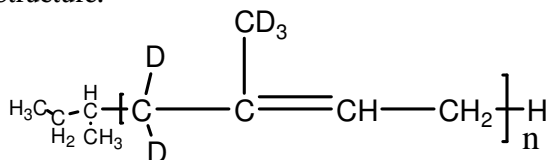


Sample Name:

Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: P19023-d5PIP

Structure:



Composition:

Mn x 10 ³	PDI
145.0	1.05

Synthesis Procedure:

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

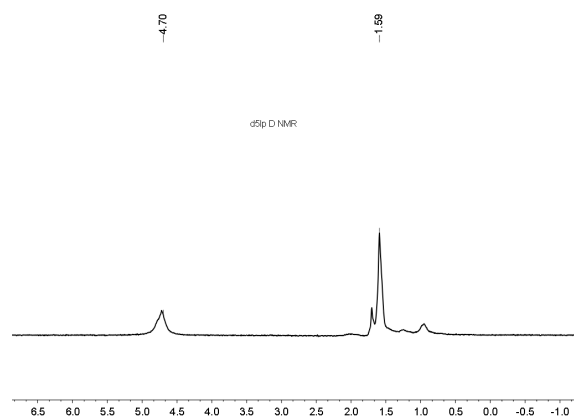
Characterization:

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.

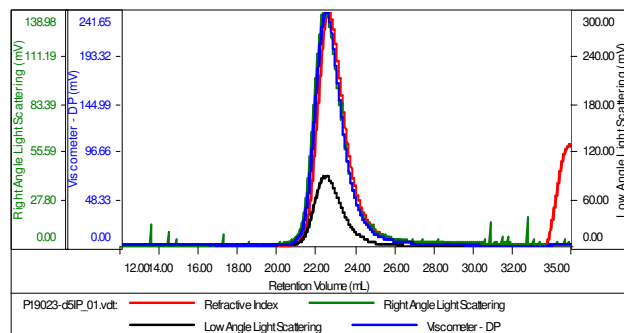
H NMR:



SEC of Sample:

Sample ID: P19023-d5IP

Concentration (mg/mL)	2.6236
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-Dec17-2014-0000.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)
P19023-d5IP_01.vdt	144,629	151,325	142,363	1.046	3.5625