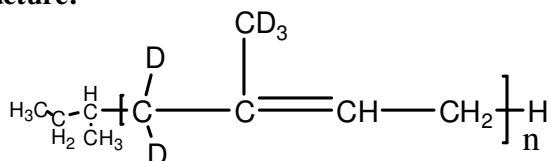


Sample Name:

Deuterated Polyisoprene-*d*5 (1,4-addition)

Sample #: P19071-d5PIP

Structure:



Composition:

Mn x 10 ³	PDI
24.5	1.55

Synthesis Procedure:

Polyisoprene was obtained by anionic polymerization deuterated isoprene-d5.

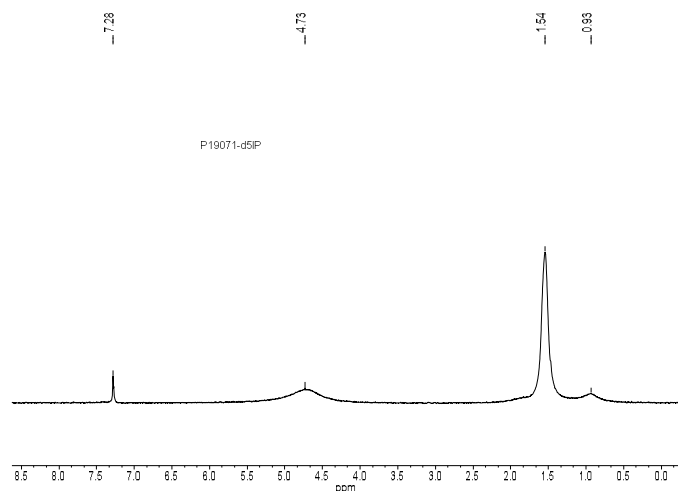
Characterization:

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:

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

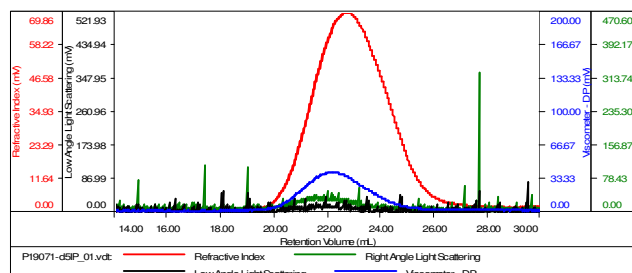
²H (D) NMR (500 MHz, CHCl₃):



SEC of the polymer:

Sample ID-P19071-d51P

Concentration (mg/mL)	1.7202
Sample dn/dc (mL/g)	0.1250
Method File	PS80K_June30_2015_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)
P19071-dRP_01.vcl	24,517	38,288	30,773	1.561	1.7466