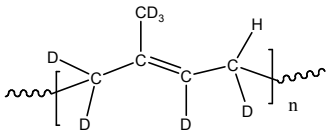
Sample Name:
Deuterated Polyisoprene-d7 (1,4-addition)
Sample #: **P10737-dIP (d7)**

Structure:



Composition:

Mn x 10^3	PDI
17.5	1.03

Synthesis Procedure:
Polyisoprene is obtained by anionic polymerization of deuterated (d7) isoprene.

Characterization:

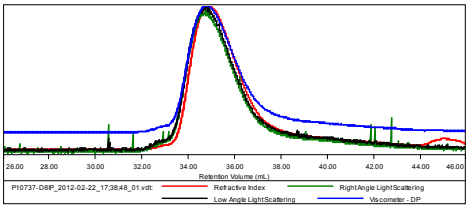
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

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

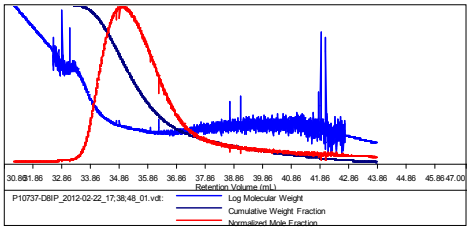
SEC of Sample:

Sample ID: P10737-D7IP

Concentration (mg/mL)	16.8019
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-Jan52012-2-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P10737-D8IP_2012-02-22_17;38;48_01	17,430	17,965	17,426	1.031	0.2859



^{1}H NMR OF THE POLYMER: