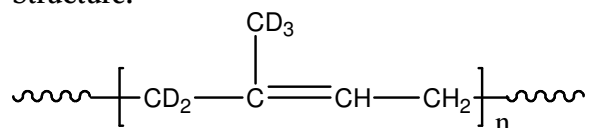


Sample Name:

Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: **P18960-d5PIP**

Structure:



Composition:

Mn x 10 ³	PDI
46.0	1.75

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.

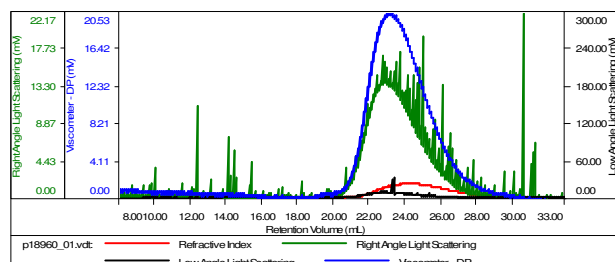
Solubility:

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

SEC of Sample:

Sample ID: P18960-dIP (d5)

Concentration (mg/mL)	4.2532
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-NDV-2014-0003.vom
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)
p18960_01.vct	46,126	80,288	65,331	1.741	0.4388