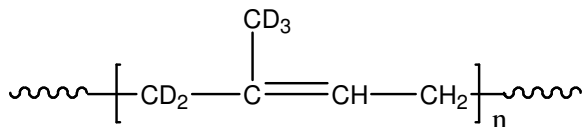


**Sample Name:**  
**Deuterated Polyisoprene-d5 (1,4-addition)**

**Sample #:** P18987-d5PIP

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
23.0	1.03

**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.

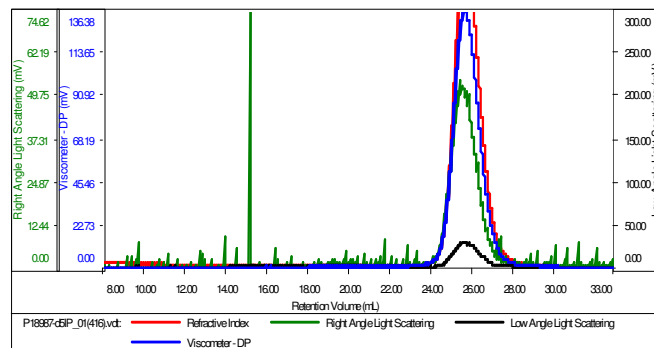
**Solubility:**

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

**SEC of Sample:**

**Sample ID:** P18987-d5IP

Concentration (mg/mL)	2.6012
Sample dn/dc (mL/g)	0.1200
Method File	PS80K-NOV27-2014-0000.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)
P18987-d5IP_01(416).vdt	23,121	23,703	23,126	1.025	1.8099