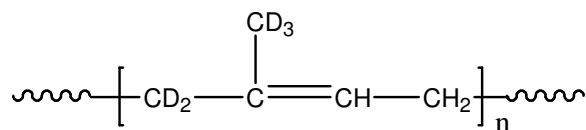


Sample Name:
Deuterated Polyisoprene-d5 (1,4-addition)

Sample #: P18987A-d5PIP

Structure:



Composition:

| | |
|----------------------|------|
| Mn x 10 ³ | PDI |
| 76.0 | 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.

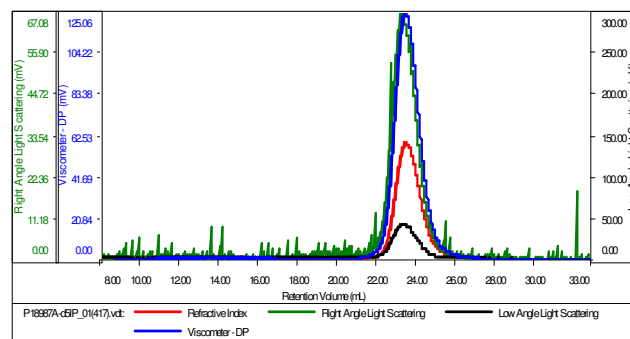
Solubility:

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

SEC of Sample:

Sample ID: P18987Ad5IP

| | |
|-----------------------|---------------------------|
| Concentration (mg/mL) | 0.9577 |
| Sample dn/dc (mL/g) | 0.1250 |
| 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) |
|--------------------------|------------------------|------------------------|-----------------|----------------|----------------------------|
| P18987A-d5IP_01(417).vct | 75,760 | 79,390 | 76,084 | 1.048 | 4.5626 |