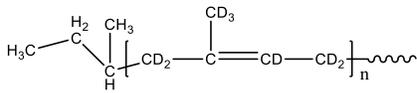


Sample Name: Deuterated Poly(1,4-isoprene-d8)

Sample #: P42235-dIp

Structure:



Composition:

$\text{Mn} \times 10^3$	PDI
7.8	1.01

Synthesis Procedure:

Polysisoprene is obtained by anionic polymerization of deuterated (d8) isoprene monomer.

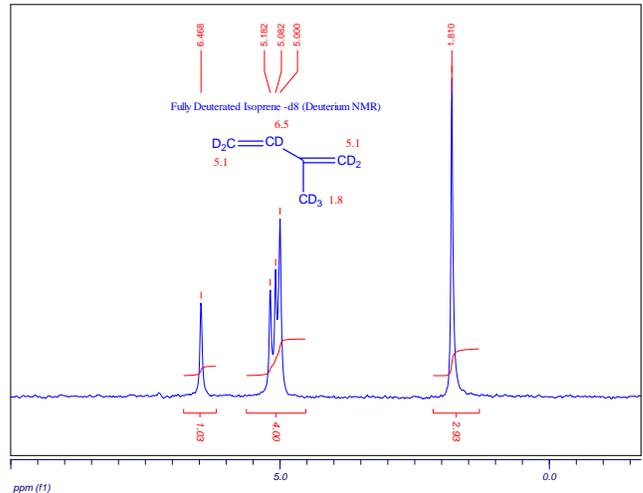
Characterization:

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:

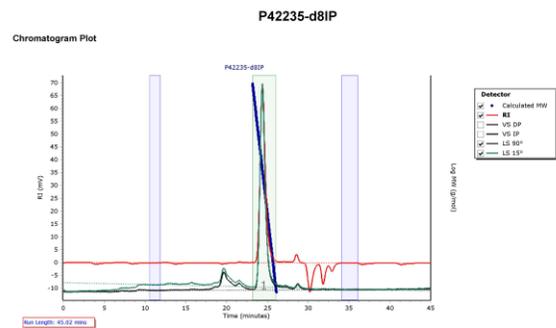
Polymer is soluble in THF, toluene, hexane and chloroform. This polymer precipitates from methanol.

D NMR spectrum of the used Monomer:



SEC elugram of the Sample:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	7938	7775	7799	7622	7644	7621	1.003

Processing Parameters
Method: RI
Concentration Detector Used in Analysis: RI
Injection volume (μL): 100.00
Flow rate (mL/min): 1.00
Concentration options: Calculate Sample Concentration from Entered Sample Properties
Entered dn/dc (mL/g): 0.128
Last modified by GPC Agilent2 at 10:21:28 AM on July-23-19

FTIR spectrum of the Sample:

