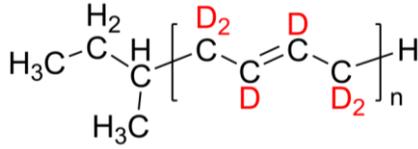


Sample Name: Deuterated Poly(1,4-butadiene-d₆), end-groups are hydrogen-containing

Sample #: P43358-dBd

Structure:

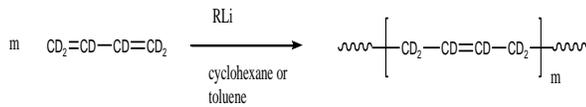


Composition:

Mn x 10 ³	Mw/Mn
107.0	1.01

Synthesis Procedure:

Deuterated polybutadiene-d₆ was obtained by living anionic polymerization of butadiene-d₆ monomer:



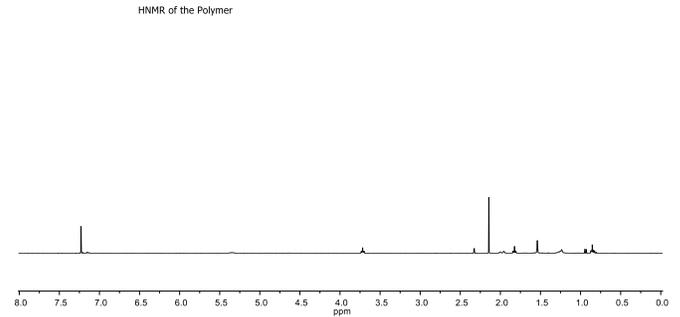
Characterization:

The molecular weight and polydispersity index (M_w/M_n) of the deuterated poly butadiene 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 from Viscotek Co. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used.

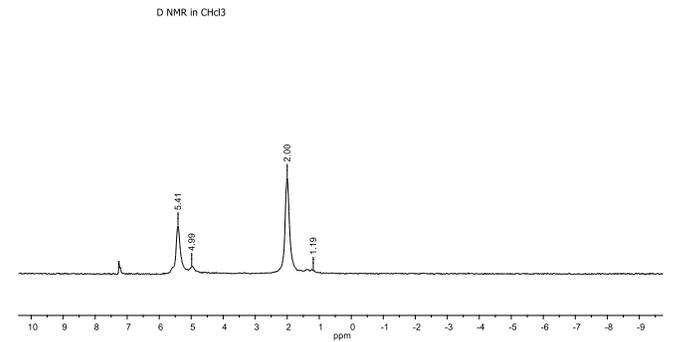
Solubility:

Polymer is soluble in toluene, THF and CHCl₃.

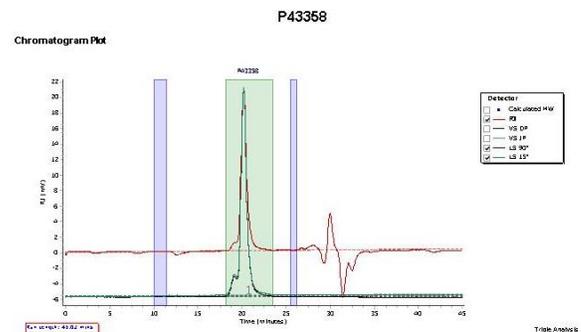
H NMR spectrum of the Sample:



D NMR spectrum of the Sample:



SEC elugram of the polymer:



Molecular Weight Averages							PD
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Mv (g/mol)	
Peak 1	107651	106758	107003	107240	107470	107158	1.002