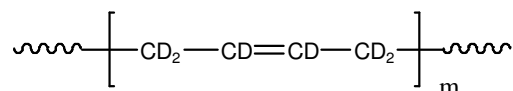


Sample Name: Deuterated Polybutadiene- d_6 (predominantly 1,4-addition), protonated end-groups.

Sample #: P19557-dPBd

Structure:

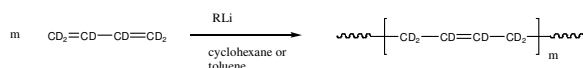


Composition:

$M_n \times 10^3$	M_w/M_n
66.0	1.11

Synthesis Procedure:

Deuterated polybutadiene- d_6 was obtained by living anionic polymerization of butadiene- d_6 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.

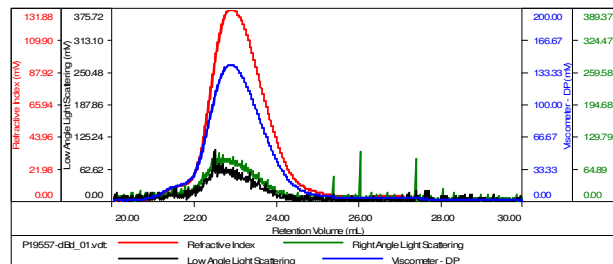
Solubility:

Polymer is soluble in toluene, THF and CHCl_3 .

SEC of the product:

Sample ID-P19557-Bd

Concentration (mg/mL)	0.6104
Sample dn/dc (mL/g)	0.1270
Method File	PS30K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19557-dBd_01.vcl	65,238	73,928	63,241	1.116	10.8206