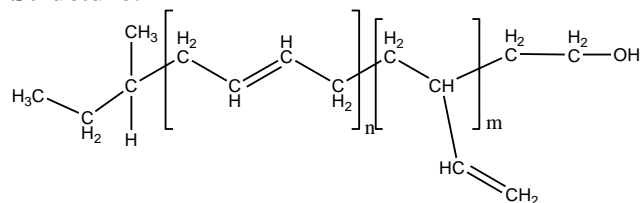


Sample Name: Hydroxy Terminated Polybutadiene, 1,2/1,4-microstructure

Sample #: P19304-BdOH

Structure:



Composition:

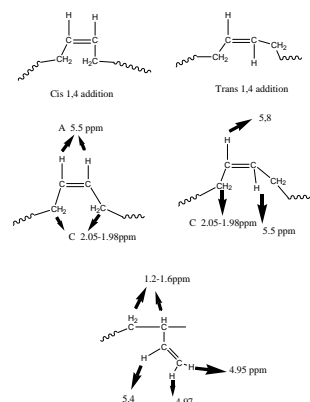
Mn x 10 ³	2.0
PDI	1.03
1,2-microstructure	45%
1,4-microstructure	55%

Synthesis Procedure: By anionic process

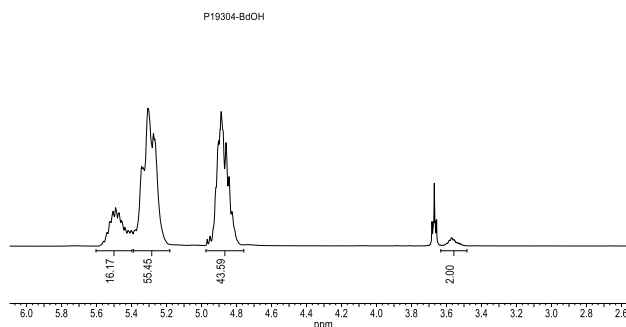
OH-terminated polybutadiene was prepared by anionic living polymerization of butadiene in non-polar solvent followed by termination with ethylene oxide.

Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹HNMR.



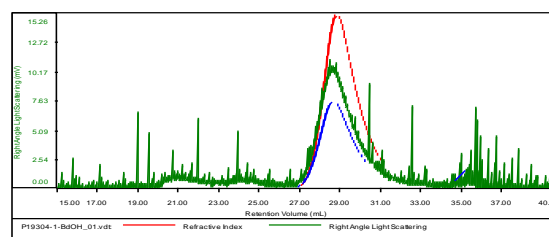
¹HNMR spectrum of the Sample:



SEC profile of the Sample:

Sample ID:P19304-1-BdOH

Concentration (mg/mL)	19.3552
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-May20-2015-0000.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)
P19304-1-BdOH_01.vdt	2,152	2,190	2,174	1.017	0.1592

Solubility:

Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.