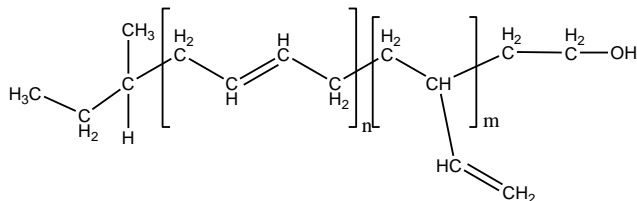


Sample Name: Hydroxy Terminated Polybutadiene, 1,2/1,4-microstructure

Sample #: P19289-BdOH

Structure:



Composition:

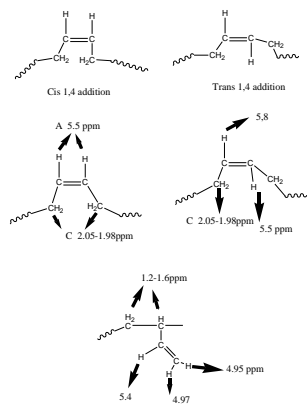
Mn x 10 ³	2.8
PDI	1.05
1,2-microstructure	70%
1,4-microstructure	30%

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:

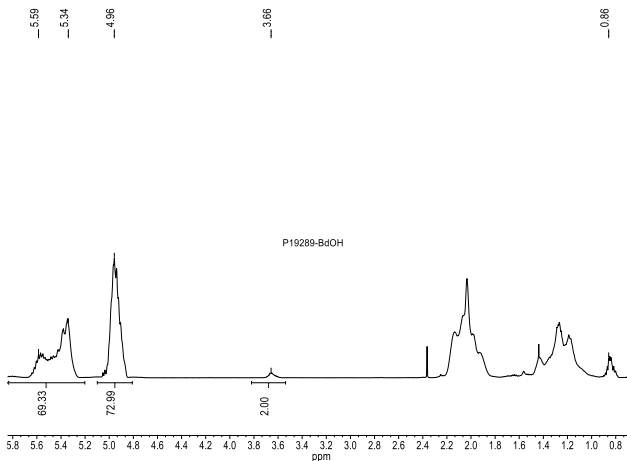
The product was characterized by size exclusion chromatography (SEC) and ¹HNMR.



Solubility:

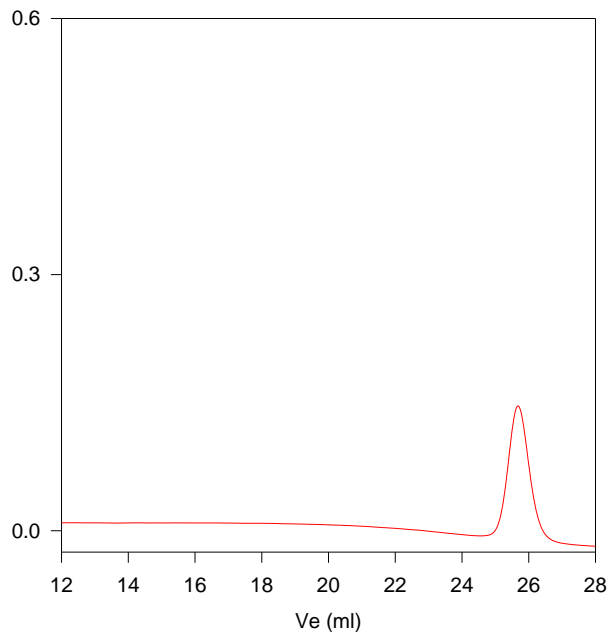
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.

¹HNMR spectrum of the Sample:



SEC profile of the Sample:

P19289-BdOH



Size exclusion chromatography of polybutadiene:

M_w=2,800, M_n=3,000, M_w/M_n=1.05

Solution Viscosity in THF at 35 °C: 0.185dl/g

Radius of Gyration in THF at 35 °C: 2.54nm