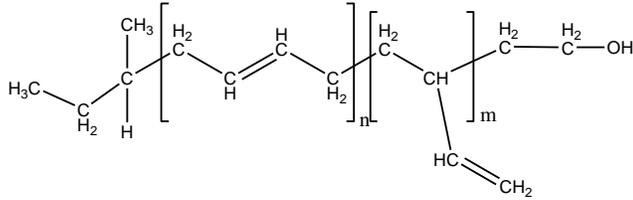


**Sample Name: Hydroxy Terminated Polybutadiene, 1,2/1,4-microstructure**

**Sample #: P19289-BdOH**

**Structure:**



**Composition:**

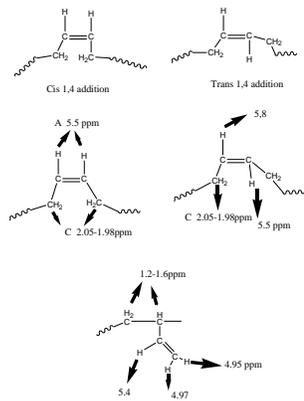
Mn x 10 <sup>3</sup>	2.8
PDI	1.05
1,2-microstructure	70%
1,4-microstructure	30%

**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:**

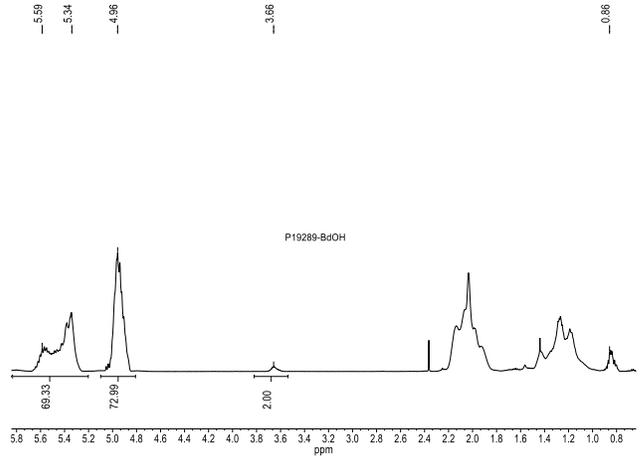
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>HNMR.



**Solubility:**

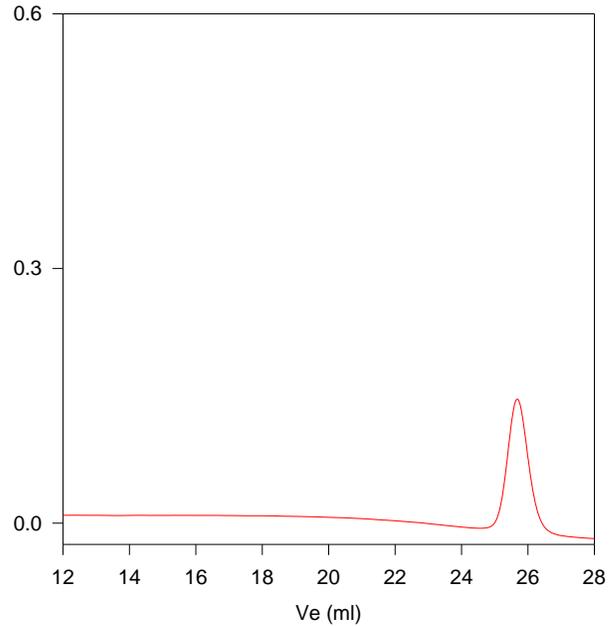
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>.

**<sup>1</sup>HNMR spectrum of the Sample:**



**SEC profile of the Sample:**

**P19289-BdOH**



Size exclusion chromatography of polybutadiene:

M<sub>w</sub>=2,800, M<sub>n</sub>=3,000, M<sub>w</sub>/M<sub>n</sub>=1.05

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

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