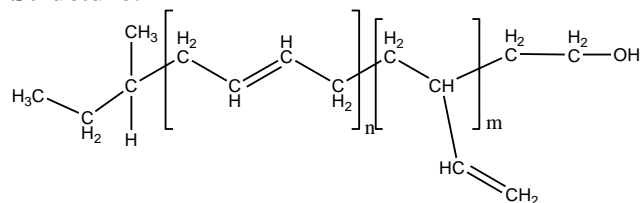


**Sample Name: Hydroxy Terminated Polybutadiene, 1,2/1,4-microstructure**

**Sample #: P19740-BdOH**

### Structure:



### Composition:

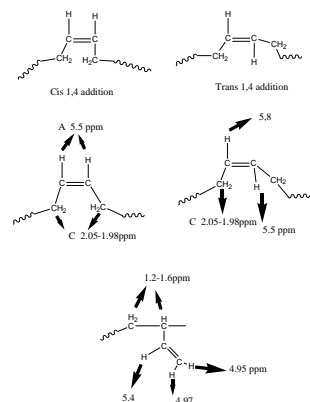
Mn x 10 <sup>3</sup>	0.65
PDI	1.05
1,2-microstructure	48%
1,4-microstructure	52%

### Synthesis Procedure:

The polymer was synthesized 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:

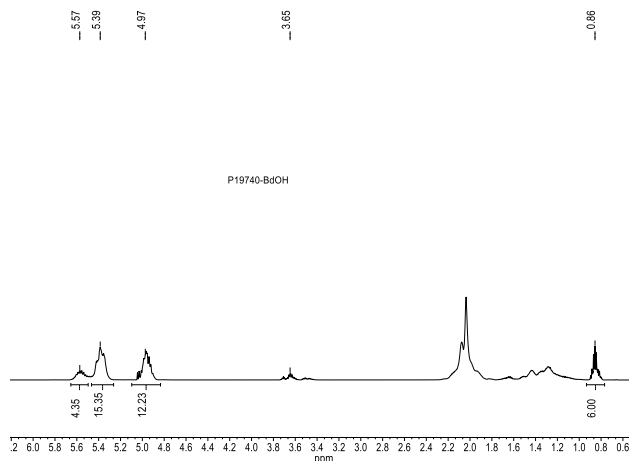
The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>HNMR.



### Solubility:

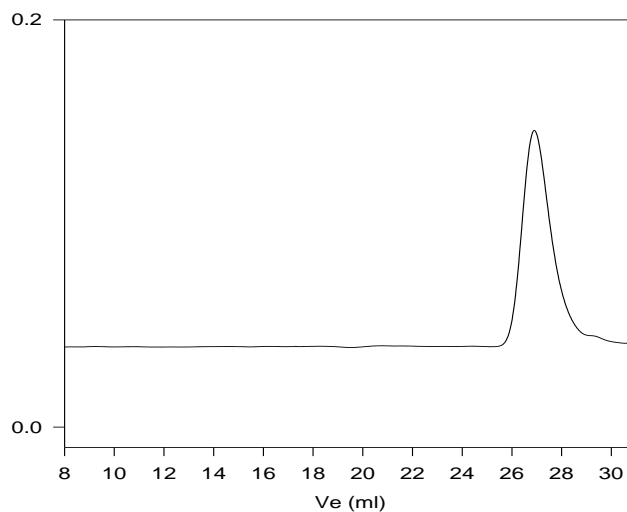
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>.

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



### SEC elugram of the Sample:

**P19740-BdOH**



Size exclusion chromatography of poly(butadiene-b-ethylene oxide):

— OH terminated polybutadiene M<sub>n</sub>=650, M<sub>w</sub>=700, PI=1.08