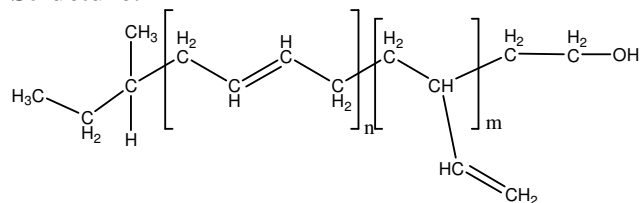


Sample Name: Hydroxy Terminated Polybutadiene,
1, 2/1, 4-microstructure

Sample #: P19941-BdOH

Structure:



Composition:

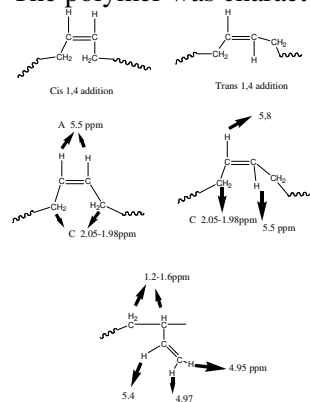
Mn x 10 ³	0.7
PDI	1.09
1,2-microstructure	10%
1,4-microstructure	90%

Synthesis Procedure:

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

Characterization:

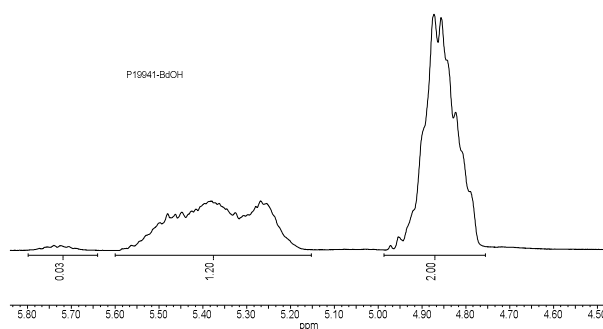
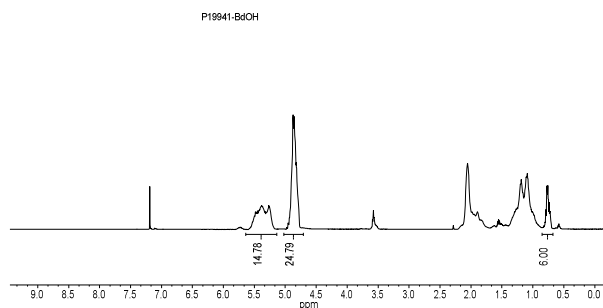
The polymer was characterized by ¹H NMR and SEC.



Solubility:

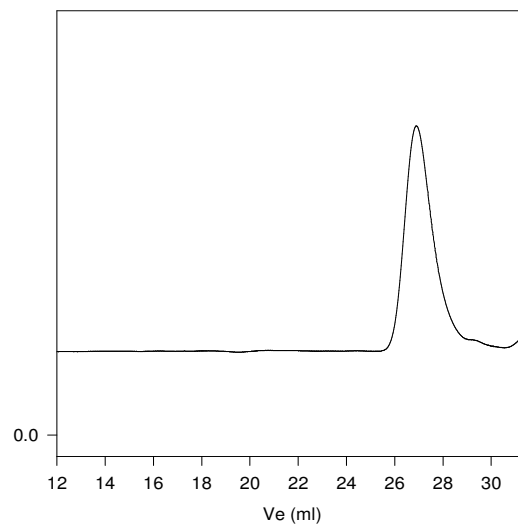
Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl₃.

¹H NMR spectrum of BdOH:



SEC elugram of BdOH:

P19941-BdOH (1,4 rich addition)



Size Exclusion Chromatogram of Hydroxy Terminated Polybutadiene

— Polybutadiene: M_n=700, M_w=750, M_w/M_n=1.09