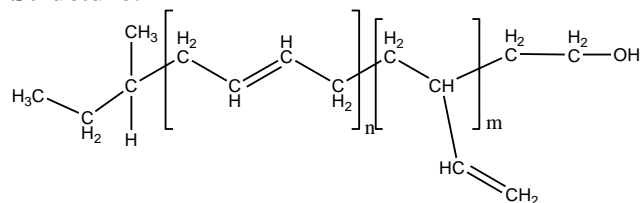


Sample Name: Hydroxy Terminated Polybutadiene,
1,2-microstructure

Sample #: P43869B-BdOH

Structure:



Composition:

Mn x 10 ³	1.0
PDI	1.02

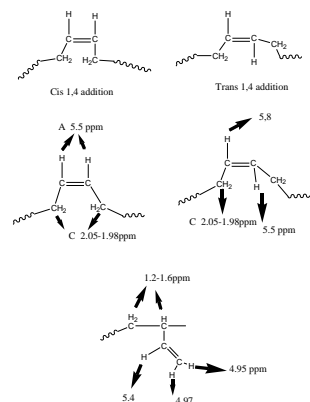
1,2-microstructure	80%
1,4-microstructure	20%

Synthesis Procedure:

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

Characterization:

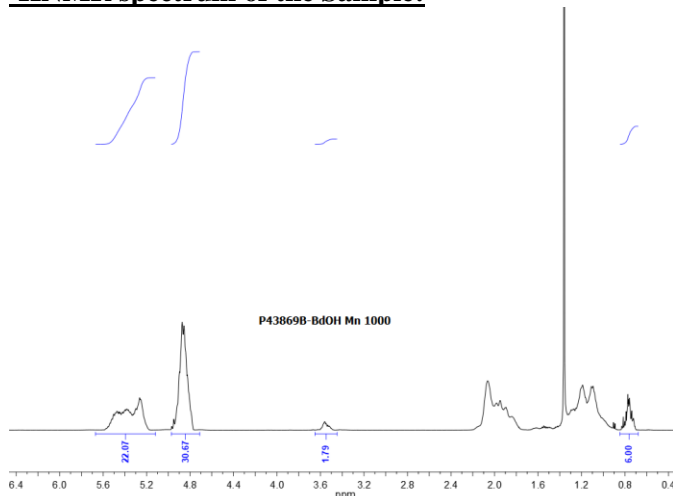
The product was characterized by size exclusion chromatography (SEC) and ¹HNMR.



Solubility:

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

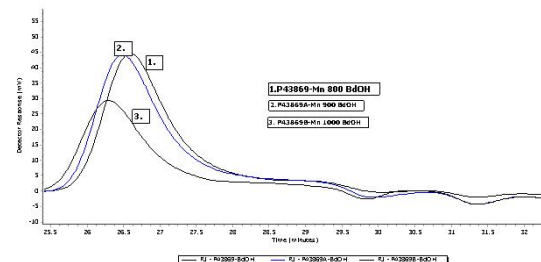
¹HNMR spectrum of the Sample:



SEC elugram of the Sample:

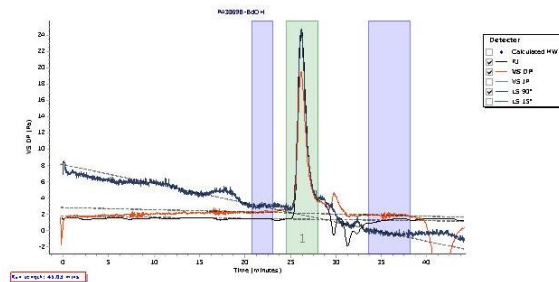
Workspace Details
 Workspace name: Calibration 2021-10-27
 Location: D:\VPC\Workspaces\Calibration 2021-10-27
 Comments: agilent2 at 4:40:59 PM on October 27, 2021
 Created by:

Chromatogram Plot



P43869B-BdOH

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Mz (g/mol)	PDI
Peak 1	1104	1019	1044	1066	1086	1058	1.024