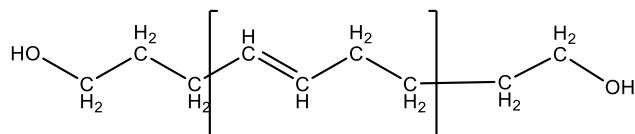


Sample Name:

α - ω dihydroxy Terminated Polybutadiene, 1,4-rich microstructure

Sample #: **P42557-Bd2OH**

Structure:

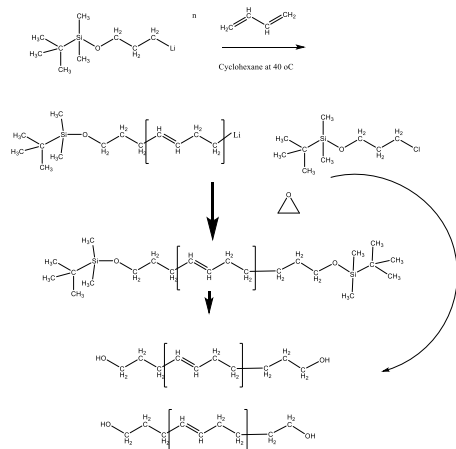


Composition:

Mn x 10 ³	PDI
13.5	1.25
1,4 Contents	88%

Synthesis Procedure:

1,4-rich microstructure addition dihydroxy terminated polybutadiene was prepared by anionic living polymerization of butadiene in a polar solvent such as cyclohexane.



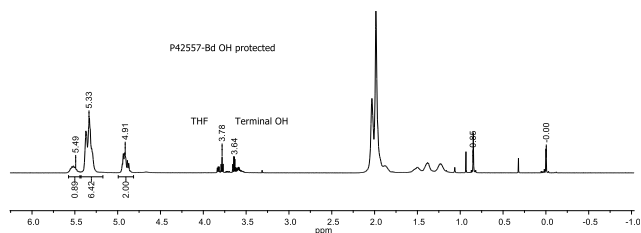
Characterization:

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

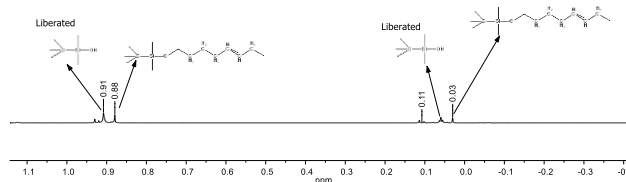
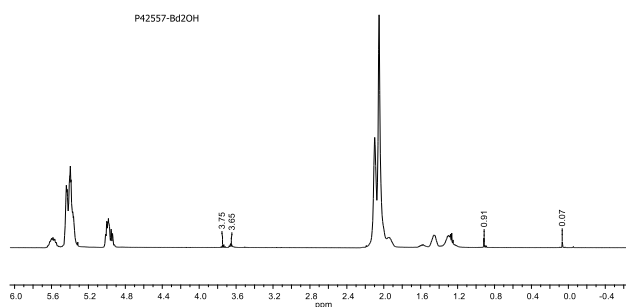
Solubility:

Hydroxy terminated polybutadiene is soluble in THF, toluene, hexane, cyclohexane and CHCl₃. It is also soluble in methanol, ethanol.

¹H-NMR spectrum of the Product:



Cleavage of tert. Butyl Dimethylsiloxy end group using TFA in DCM:



SEC elugram of the Sample:

Agilent GPC/SEC Software

