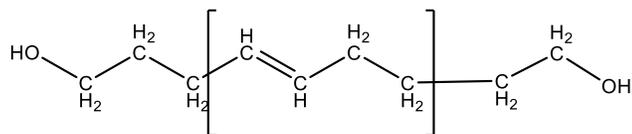


Sample Name:

$\alpha$ - $\omega$  dihydroxy Terminated Polybutadiene, 1,4-rich microstructure

Sample #: P42517-Bd2OH

Structure:

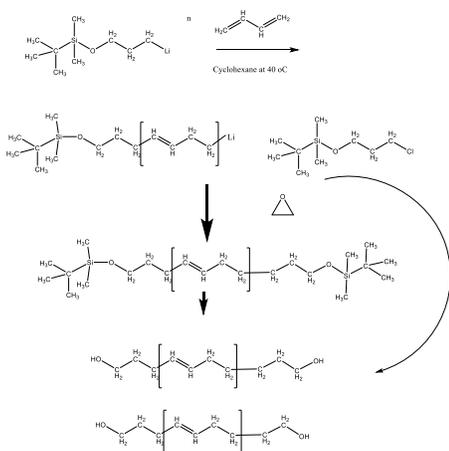


Composition:

Mn x 10 <sup>3</sup>	PDI
51.0	1.04
1,4 Contents	90%

Synthesis Procedure:

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



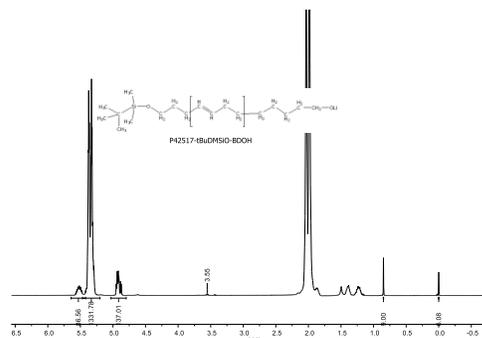
Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

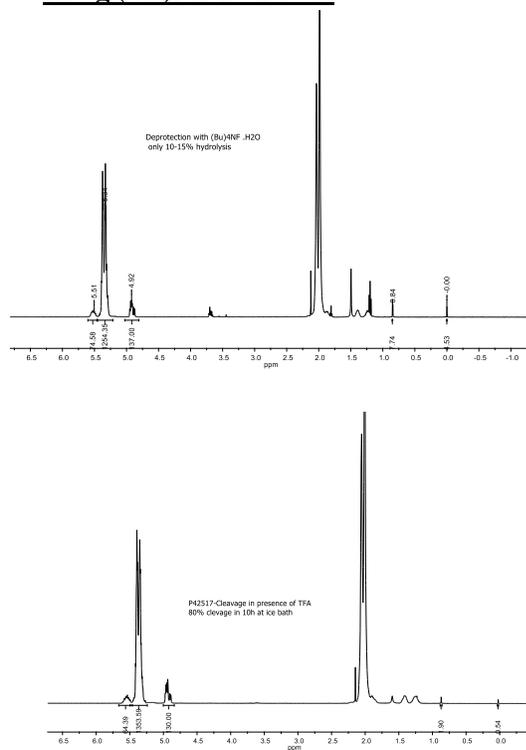
Solubility:

Hydroxy terminated polybutadiene is soluble in THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>. It is also soluble in methanol, ethanol.

<sup>1</sup>H-NMR spectrum of the Product:



Cleavage of tert-Butyl Dimethylsiloxy end group using (Bu)<sub>4</sub>NF in THF:



SEC elugram of the Sample:

