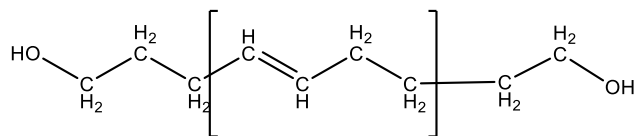


Sample Name:

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

Sample #: **P42522-Bd2OH**

**Structure:**

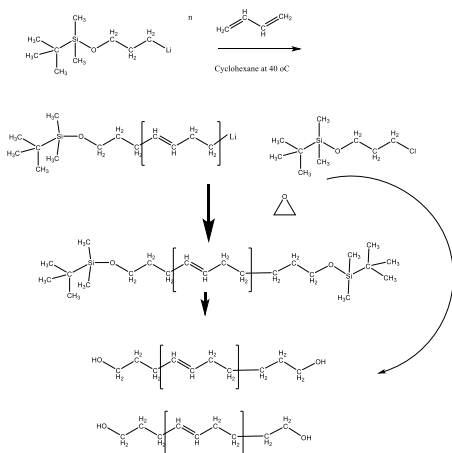


**Composition:**

Mn x 10 <sup>3</sup>	PDI
74.5	1.25
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.



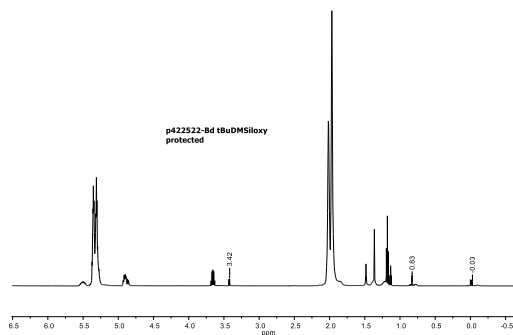
**Characterization:**

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

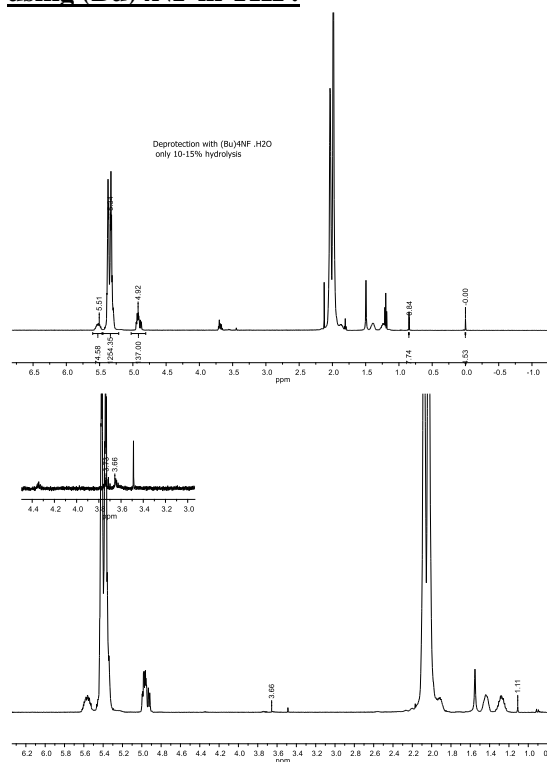
**Solubility:**

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 of Sample:**

