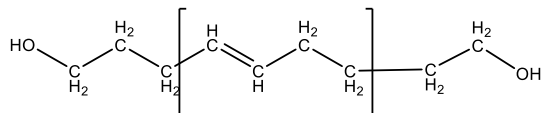


Sample Name: Poly(1,4-butadiene), α,ω -bis(hydroxy)-terminated

Sample #: P42536-Bd2OH

Structure:



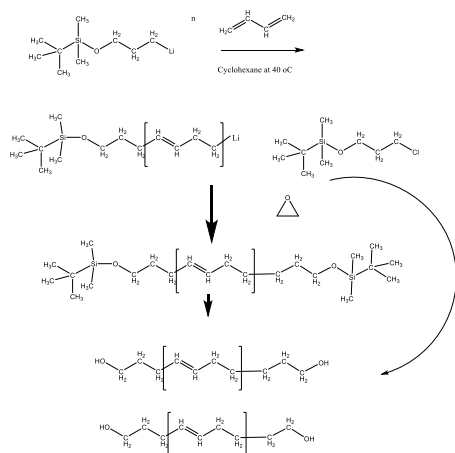
Composition:

| | |
|----------------------|------|
| Mn x 10 ³ | PDI |
| 8.0 | 1.02 |

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. The following reaction scheme shows how the product was prepared:



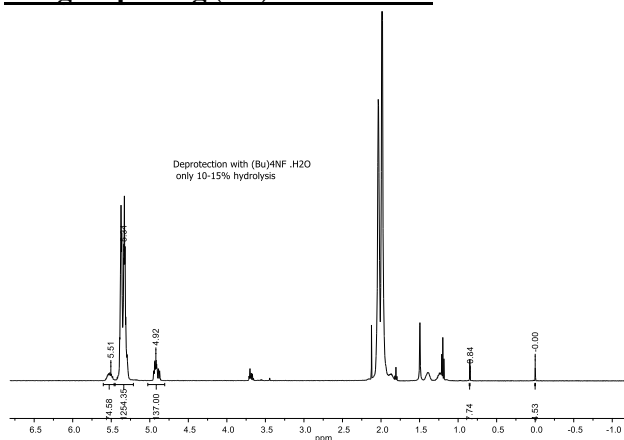
Characterization:

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

Solubility:

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

¹H NMR of the Cleavage of tert-Butyl Dimethylsiloxy end group using (Bu)₄NF in THF:



SEC elugram of the Sample:

Agilent GPC/SEC Software

