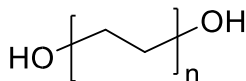


Sample Name:

Poly(ethylene), α,ω -bis(hydroxy)-terminated

Product #: **P43851A-E2OH**

Structure:



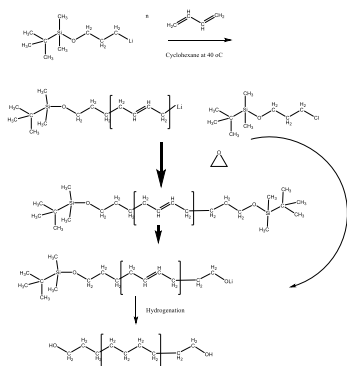
Composition:

Mn x 10 ³	PDI
2.7	1.02

1,4 Contents of its precursor PBd: 90%

Synthesis Procedure:

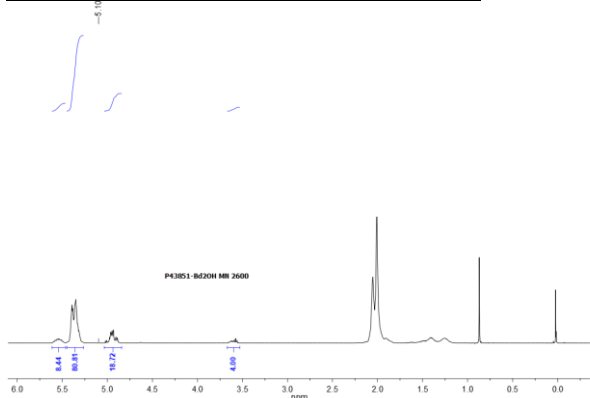
1,4-rich microstructure addition dihydroxy terminated polybutadiene was prepared by anionic living polymerization of butadiene in a polar solvent such as cyclohexane. The following reaction scheme shows how the product was prepared:



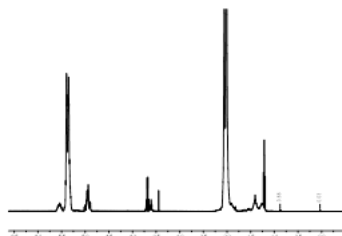
Characterization:

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

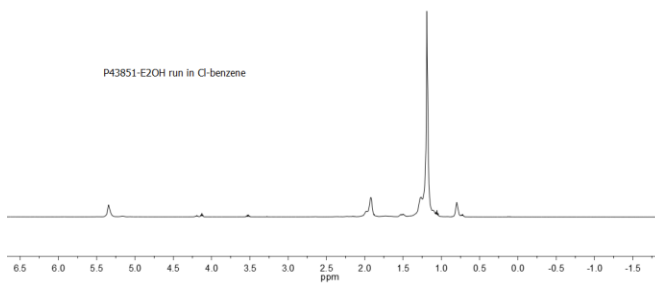
¹H-NMR spectrum of the Product: Tert Butyldimethylsiloxyl OH terminated:



Cleavage of tert-Butyl Dimethylsiloxyl end group using (Bu)₄NF in THF:

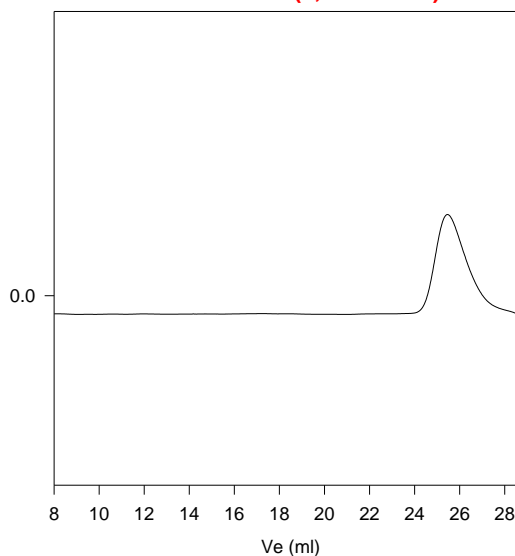


¹H NMR spectrum of the Sample:



SEC profile of the Bd2OH Sample:

P43851-Bd2OH (1,4 addition)



Size exclusion chromatography of poly(butadiene)

— Polybutadiene M_n=2,600, M_w=2800, PI=1.02