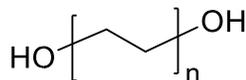


Sample Name:

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

Product #: P43851A-E2OH

Structure:



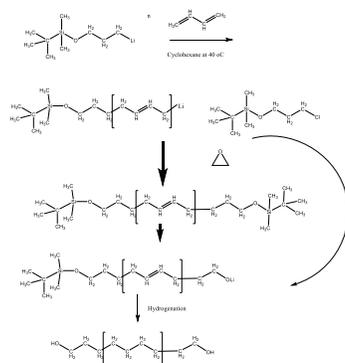
Composition:

$M_n \times 10^3$	PDI
2.7	1.02

1,4 Contents of its precursor PBd: 90%

Synthesis Procedure:

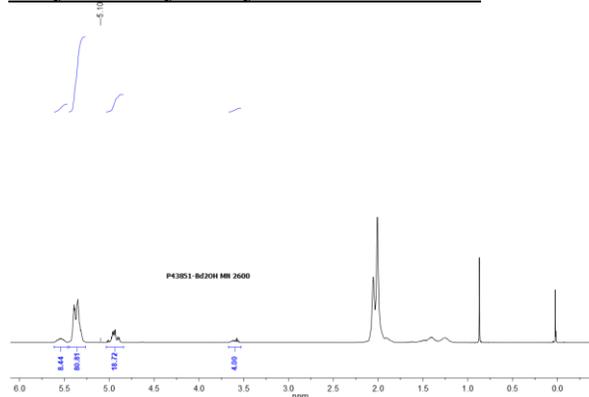
1,4-rich microstructure addition dihydroxy terminated polybutadiene was prepared by anionic living polymerization of butadiene in a polar solvent such as cyclohexane. The following reaction scheme shows how the product was prepared:



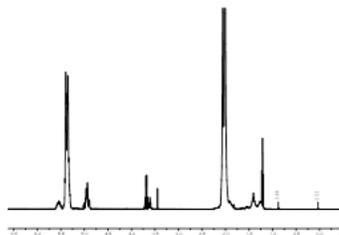
Characterization:

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

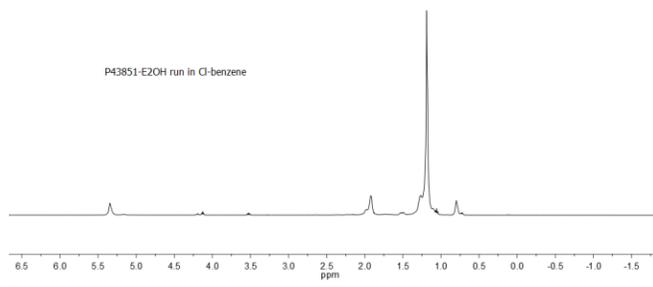
^1H -NMR spectrum of the Product: Tert Butyldimethylsiloxy OH terminated:



Cleavage of tert-Butyl Dimethylsiloxy end group using $(\text{Bu})_4\text{NF}$ in THF:

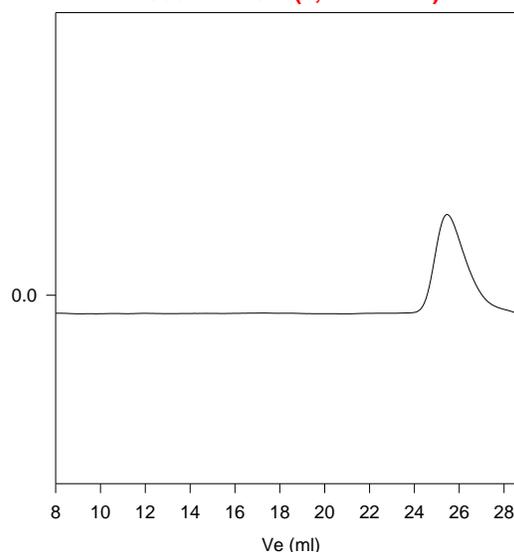


^1H NMR spectrum of the Sample:



SEC profile of the Bd2OH Sample:

P43851-Bd2OH (1,4 addition)



Size exclusion chromatography of poly(butadiene)
Polybutadiene $M_n=2,600$, $M_w=2800$, $PI=1.02$