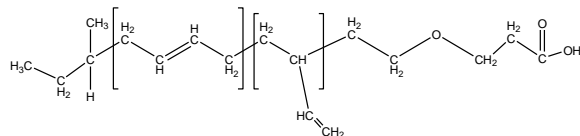


**Sample Name:** COOH Terminated Polybutadiene,  
**1,2/1,4-microstructure**  
**Sample #:** P19304A-BdCOOH  
**Structure:**



### Composition:

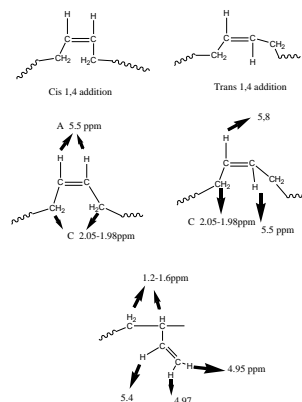
Mn x 10 <sup>3</sup>	2.0
PDI	1.03
1,2-microstructure	45%
1,4-microstructure	55%

### Synthesis Procedure: By anionic process

Carboxy-terminated polybutadiene was prepared by anionic living polymerization of butadiene in non-polar solvent followed by termination with ethylene oxide.

### Characterization:

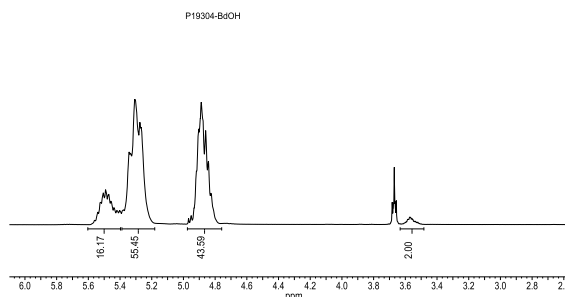
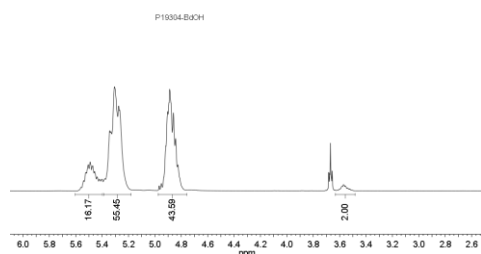
By HNMR and GPC.



### Solubility:

Polymer is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>.

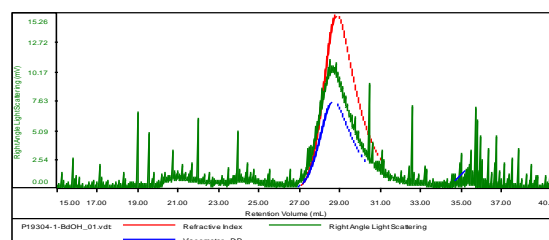
### <sup>1</sup>HNMR of BdOH:



### SEC of BdOH:

Sample ID:P19304-1-BdOH

Concentration (mg/mL)	19.3552
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-May20-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MN Number Average (Da)	MN Weight Average (Da)	MN at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19304-1-BdOH_01.vdt	2,152	2,190	2,174	1.017	0.1592

### FTIR of before and after hydrolysis of BdtBuA to BdCOOH:

