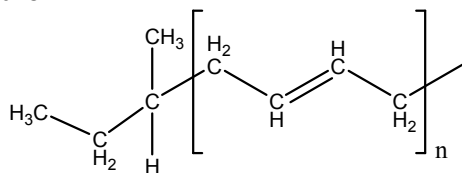


Sample Name: **Polybutadiene (1, 4-rich microstructure)**

Sample #: **P19307-Bd**

Structure:



Composition:

Mn x 10 <sup>3</sup>	PDI
160.0	1.06

Synthesis Procedure:

The 1, 4-addition polybutadiene was prepared by anionic living polymerization of butadiene in non-polar media.

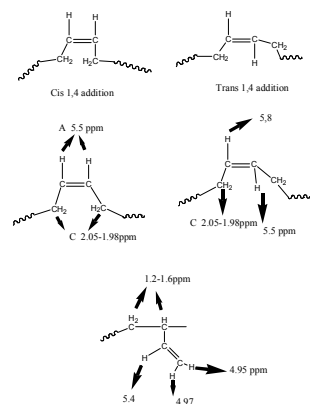
Characterization:

By GPC and HNMR.

**Microstructure:** The ratio between 1,4- and 1,2-addition was calculated by <sup>1</sup>H NMR spectroscopy.

Solubility:

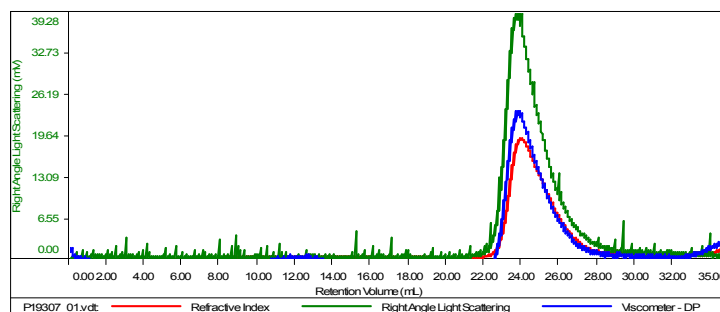
The polybutadiene is soluble in DMF, THF, toluene, hexane, cyclohexane and CHCl<sub>3</sub>. It precipitates from methanol, ethanol and water.



**SEC of Sample:**

Sample ID: **P19307-Bd**

Concentration (mg/mL)	1.2508
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-May20-2015-0000.vcm
Column Set	3xPL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19307_01.vdt	159,624	168,270	163,180	1.054	0.4178