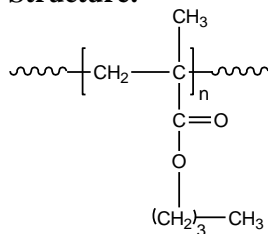


Sample Name: Poly(n-butyl methacrylate)

Sample #: P9694-nBuMA

Structure:



Composition:

Mn x 10 ³	PDI
118.5	1.56

Synthesis Procedure:

Poly(n-butyl methacrylate) is obtained by living anionic polymerization of n-butyl methacrylate.

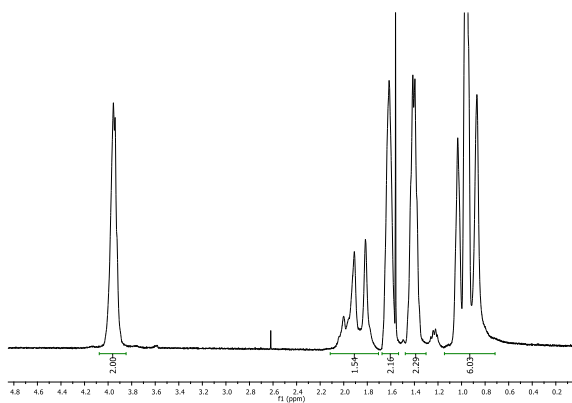
Characterization:

The molecular weight and polydispersity index (PDI) of poly(n-butyl methacrylate) are obtained by size exclusion chromatography (SEC) equipped with refractive index and light scattering detectors using DMF as eluent.

Solubility:

Poly(n-butyl methacrylate) is soluble in DMF, THF, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

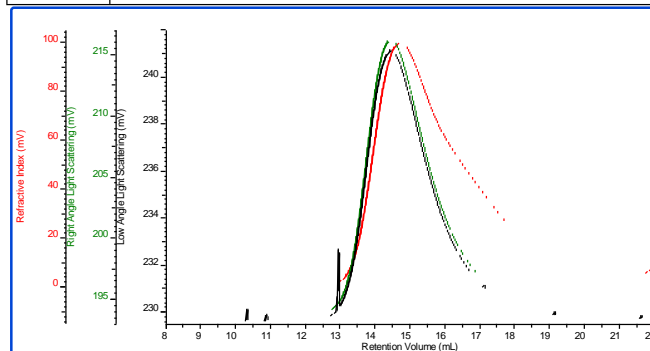
¹H NMR of homopolymer in CDCl₃:



SEC of homopolymer:

P9694-nBuMA

dn/dc	0.0570
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P9694_1_2019-	118,328	184,442	273,254	0.3170	1.559

References for further information:

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- Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32, 61-73.
- S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph. Teyssie *Macromolecules*, 1990, 23, 2618-2622.