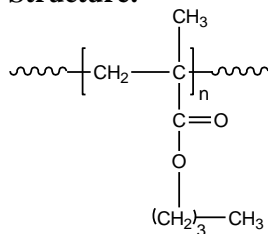


Sample Name: Poly(n-butyl methacrylate)

Sample #: P10553A-nBuMA

Structure:



Composition:

Mn x 10 ³	PDI
38.5	1.24

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.

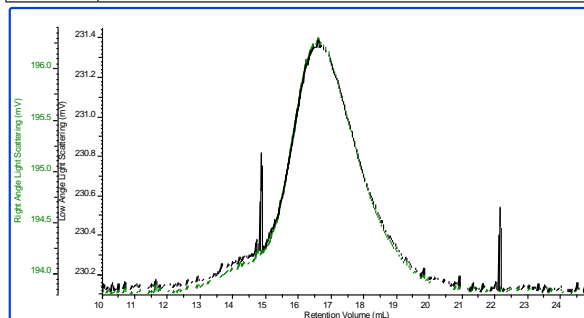
Solubility:

Poly(n-butyl methacrylate) is soluble in DMF, THF, CHCl₃, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC elugram of homopolymer:

P10553A-nBuMA

dn/dc	0.0550
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P10553_1_20	38,494	47,761	63,945	0.1446	1.241

References for further information:

- (a) S. K. Varshney, R. Fayt, Ph. Teyssie, US Patent 5,629,393, 1997 (b) Ph. Bayard, R. Fayt, Ph. Teyssie and S. K. Varshney, Vuillemin B, Phillipe, H, US patent 5,677,387, 1997. (c) Ph. Bayard, R. Fayt, Ph. Teyssie and S. K. Varshney, B, Vuillemin, H. Phillipe, US patent 5,687,534, 1997. (d) S. K. Varshney, R. Fayt, Ph. Teyssie, US Patent 5,723,559, 1998. (e) Ph. Teyssie, S. K. Varshney, R. Jerome, R. Fayt US patent, 4,826,941., 1989.
- Ph. Teyssie, Ph. Bayard, R. Jerome, S. K. Varshney, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
- 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.

¹H NMR of homopolymer in d₇-DMF:

