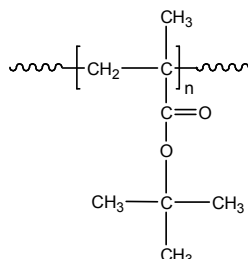


Sample Name: Poly(t-butyl methacrylate)
Atactic microstructure

Sample #: P18775-tBuMA

Structure:



Composition:

$M_n \times 10^3$	M_w/M_n
24.0	1.28
Iso : Hetero : Syndio microstructure	6:56:38

Synthesis Procedure:

Poly(t-butylmethacrylate) was obtained by GTP process.

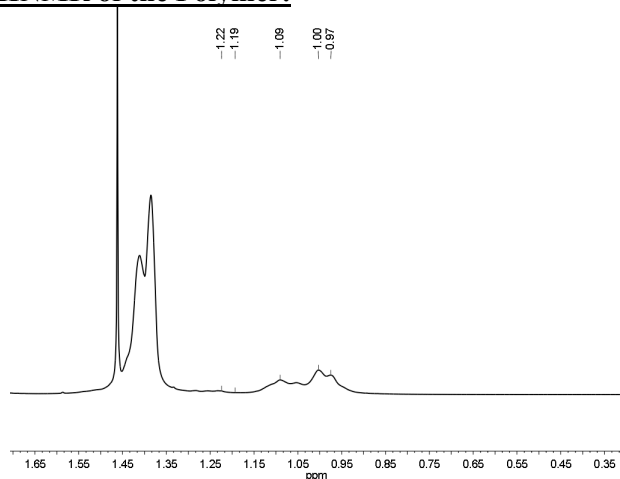
Characterization:

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

Solubility:

Poly(tert butylmethacrylate) is soluble in THF, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

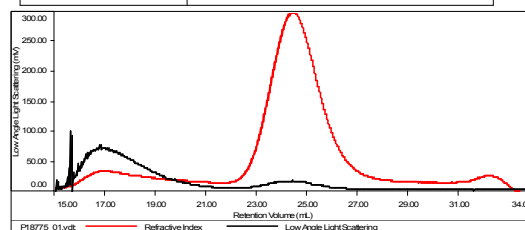
^1H NMR of the Polymer:



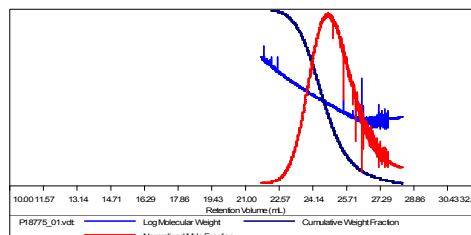
SEC elugram of Homopolymer:

Sample ID: P18775-tBuMA

Concentration (mg/mL)	25.7618
Sample dilute (mL/g)	0.0940
Method File	PS80K-august 12-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

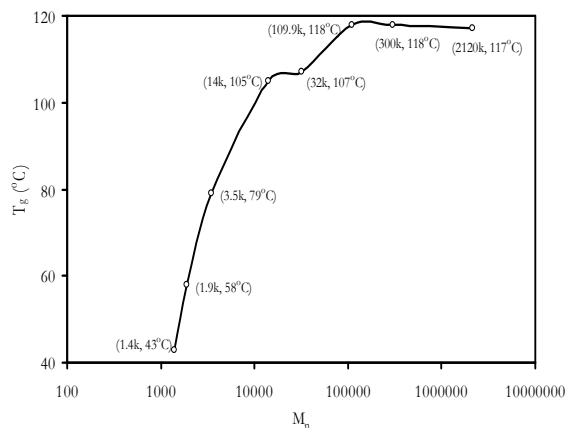


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18775_01.vcl	24,252	30,754	28,750	1.268	0.1271



DSC thermogram of the Product:

T_g of poly t-butyl methacrylate as function of molecular weight



T_g vs MW for selected poly t-butyl methacrylate

$M_n \times 10^3$	T_g (°C)	$M_n \times 10^3$	T_g (°C)
1.4	43	32	107
1.9	58	109.9	118
3.5	79	300	118
14	105	2120	117

References for further information:

S. K. Varshney, Z. Gao, Xing Fu Zhong, A. Eisenberg; "Effect of Lithium Chloride on the "Living" Polymerization of tert-Butylmethacrylate and Polymer Microstructure Using Monofunctional Initiators". Macromolecules, 1994, 27, 1076.