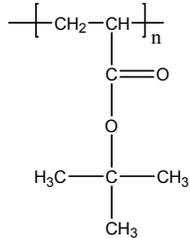


Sample Name: Poly(t-butyl acrylate)

Sample #: P6614-tBuA

This batch is obtained by GTP polymerization

Structure:



Composition:

Mn x 10 ³	PDI
360.0	1.8

Synthesis Procedure:

Poly(t-butyl acrylate) is obtained by GTP process.

Characterization:

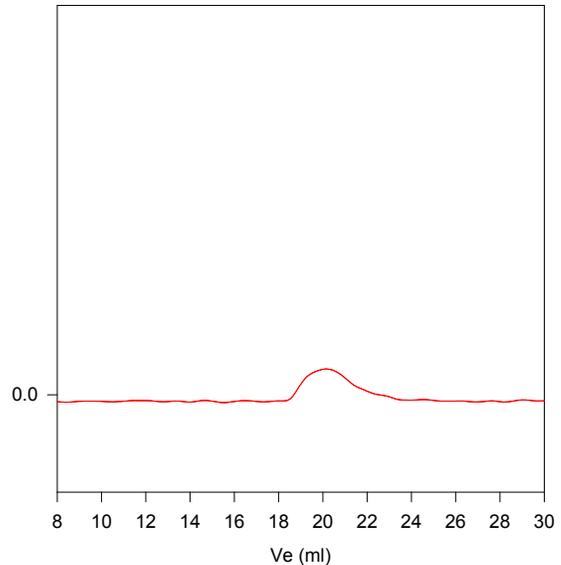
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

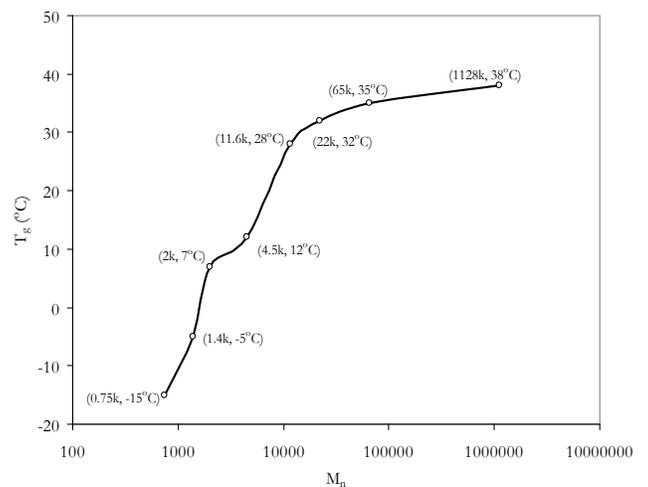
Poly(t-butyl acrylate) is soluble in THF, hexanes (low MW), toluene and CHCl₃. This polymer precipitates from ethanol and methanol containing 10-15% water.

SEC of Sample:

P6614-tBuA



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



References:

1. 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.
2. R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and **S. K. Varshney**, *Macromolecules*, 1987, 20, 1442-1444.
3. Jerome, R. Forte, **S. K. Varshney**, R. Fayt, and Ph. Teyssie, "The Anionic Polymerization of Alkylacrylates: A Challenge" in the Recent Advances in Mechanistic and Synthetic Aspects of Polymerization: M. Fontanille and A. Guyot Ed., NATO ASI Series C 215,101 (1987), CA Vol. 108, 12, 094992.
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