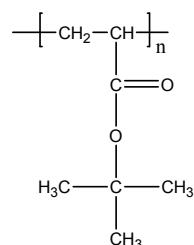
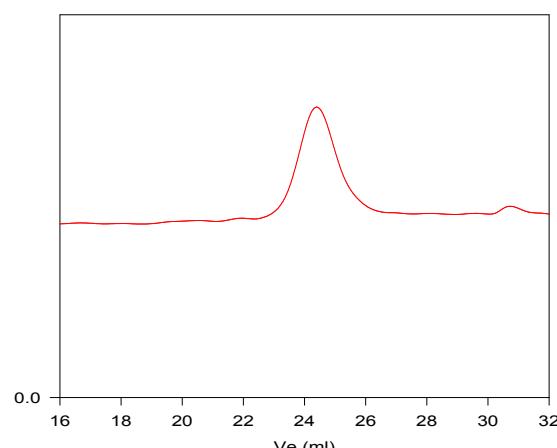


Sample Name: Poly(t-butyl acrylate)**SEC of Sample:****Sample #: P8584-tBuA****P8584-tBuA**

This batch is obtained by GTP polymerization

Structure:**Composition:**

Mn x 10 ³	PDI
12.0	1.3

**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.

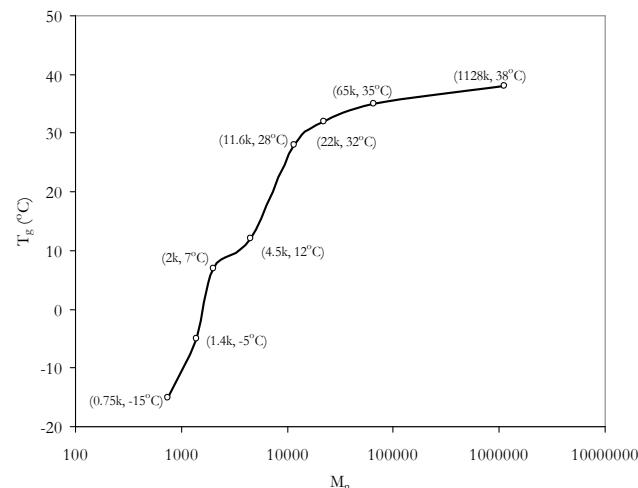
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

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.

T_g vs MW for selected poly t-butyl acrylate

M _n × 10 ³	T _g (°C)	M _n × 10 ³	T _g (°C)
0.75	-15	11.6	28
1.4	-5	22	32
2	7	65	35
4.5	12	1128	38

T_g of poly t-butyl acrylate as function of molecular weight**References:**

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- Ph. Teyssié, R. Fayt, C. Jacobs, R. Jerome, L. Leemans, and **S. K. Varshney** *Am. Chem. Soc., Polym. Prepr.* 1988, 28, 2, 52-53