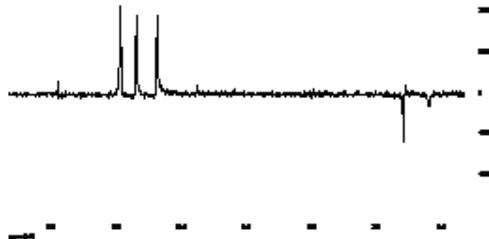
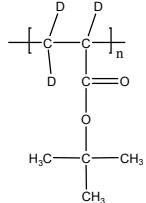


### D NMR of the monomer:

Sample Name: Deuterated  
Poly(tert.butylacrylate) Ester group protonated

Sample #: P11083-d3tBuA

#### Structure:



#### Composition:

Mn x 10 <sup>3</sup>	PDI
127.4	1.14
Mp:177.5	

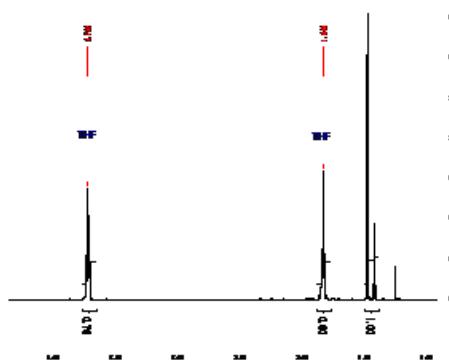
#### Characterization:

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.

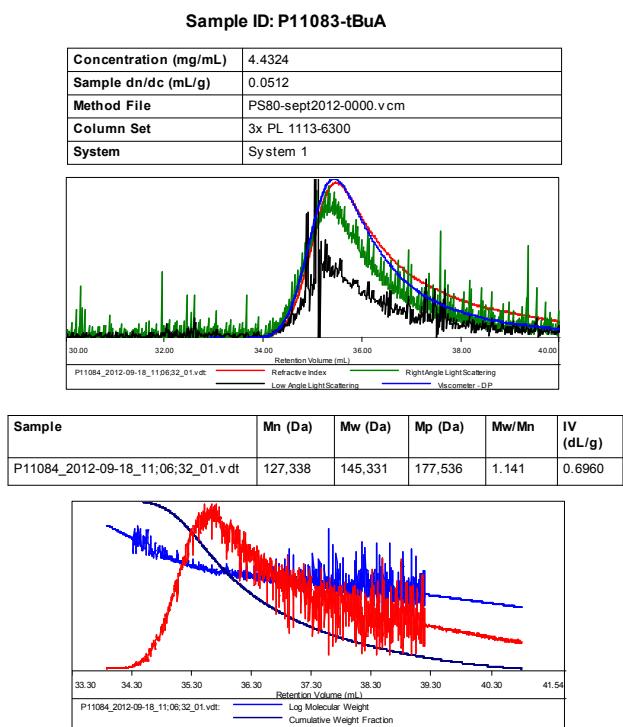
#### Solubility:

Deuterated Poly(tert.butyl acrylate) is soluble in THFCHCl<sub>3</sub>, Toluene.

#### HNMR of the monomer:



#### SEC of Sample:



#### References:

- 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.
- R. Fayt, R. Forte, C. Jacobs, R. Jerome, T. Ouhadi, Ph. Teyssie and S. K. Varshney, "Macromolecules", 1987, 20, 1442-1444.
- 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. Fontanaille and A. Guyot

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Vol. 108, 12, 094992.

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