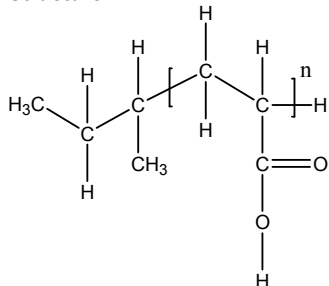


Sample Name:  
**Oligomers of acrylic acid obtained from the Hydrolysis of oligomer of tert.butyl acrylate**

Sample #: P8429-AA

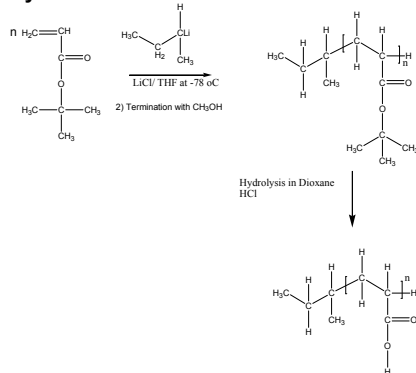
**Structure:**



**Composition:**

Value of n	Mw/Mn
Dp: 9 (by HNMR)	1.16
Dp: 5 (MALDI-TOFF)	

**Synthesis Procedure:**

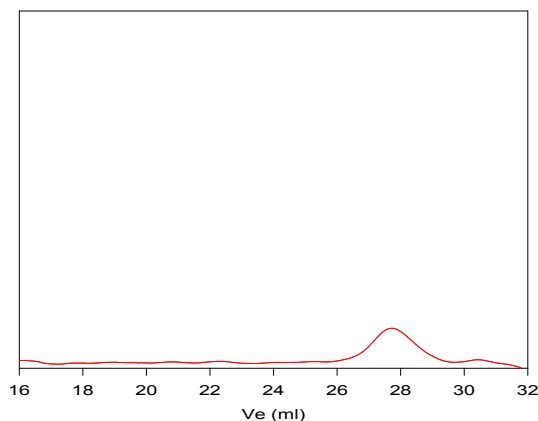


**Solubility:**

Poly acrylic acid oligomers are soluble in Hexane, Methanol, ethanol and water.

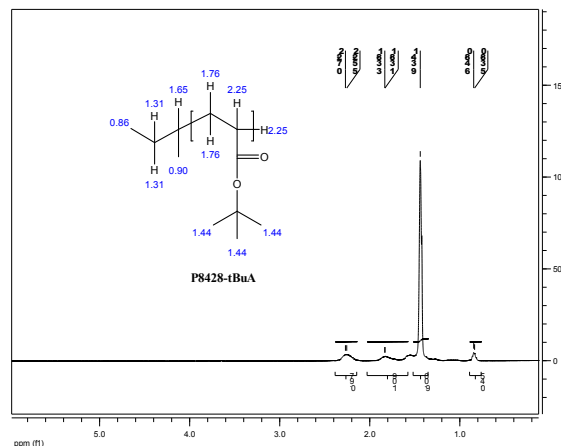
**SEC of Sample:**

**P8429-tBuA Oligomer  
 Precursor for P8429A-AA**

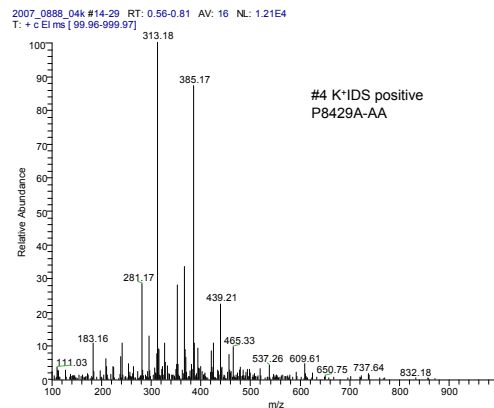


Size Exclusion Chromatography of Poly tert.Butyl acrylate oligomers  
 Dp: 9 by HNMR  
 Mn 1200 Mw: 1400 Mw/Mn 1.16  
 after Hydrolysis of tert.butyl ester: Mn 700 Mw/Mn 1.16

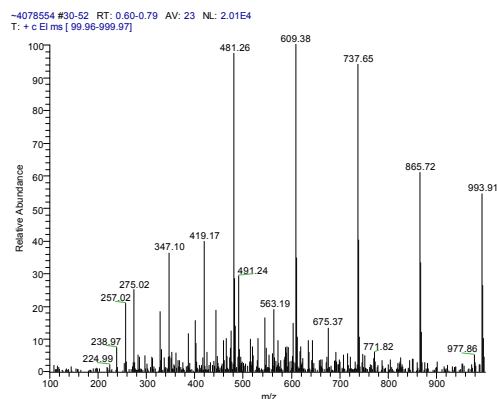
**<sup>1</sup>H NMR of the oligomer of tert.butylacrylate**



**MALDI-TOFF of the oligomer of acrylic acid**



**MALDI-TOFF of the oligomer of tert.butyl acrylate (precursor of the oligomer of acrylic acid):**



**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.
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