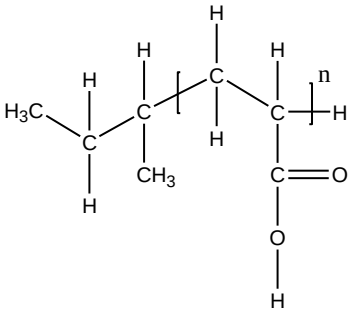
Sample Name:

Oligomers of Poly (acrylic acid) obtained from the Hydrolysis of oligomer of poly tert.butyl acrylate

Sample #: **P8518-AA**

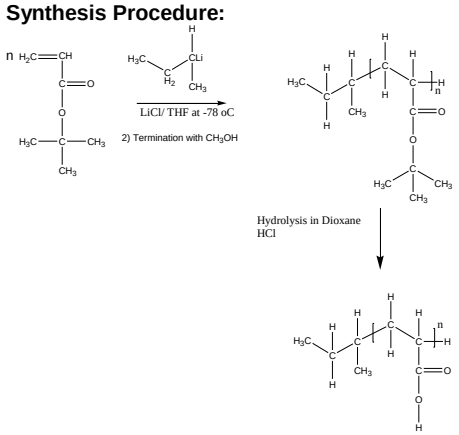
Structure:



Composition:

Value of n By HNMR/MALDI-TOFF	Mw/Mn
Dp: 11 Mn 800	1.25

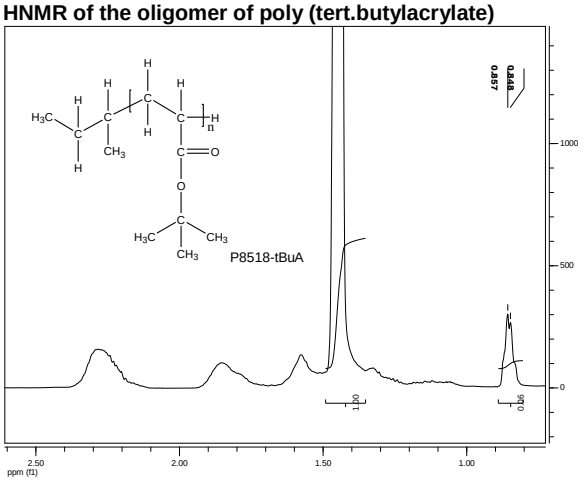
Synthesis Procedure:



Solubility:

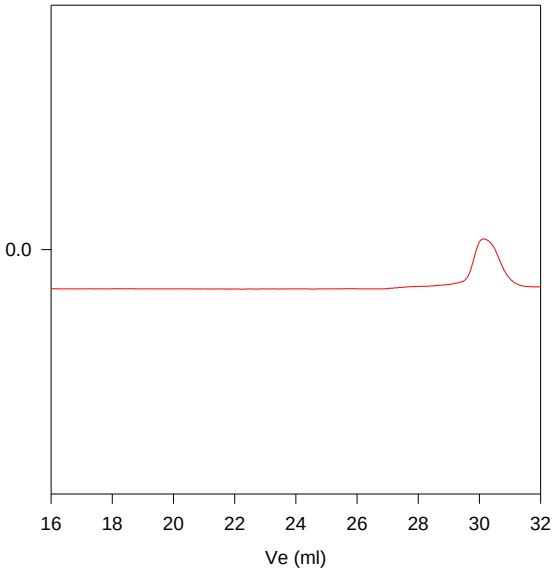
Poly acrylic acid oligomers are soluble in hexane, methanol, ethanol and water.

HNMR of the oligomer of poly (tert.butylacrylate)



SEC of Sample:

P8518-tBuA Oligomer
Precursor for P8518-AA



Size Exclusion Chromatography of Poly tert.Butyl acrylate oligomers
Dp: 11 by HNMR
Mn 1400 Mw: 1750 Mw/Mn 1.25
after Hydrolysis of tert.butyl ester Mn: 800 Mw/Mn 1.25

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. Fontanaille 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*