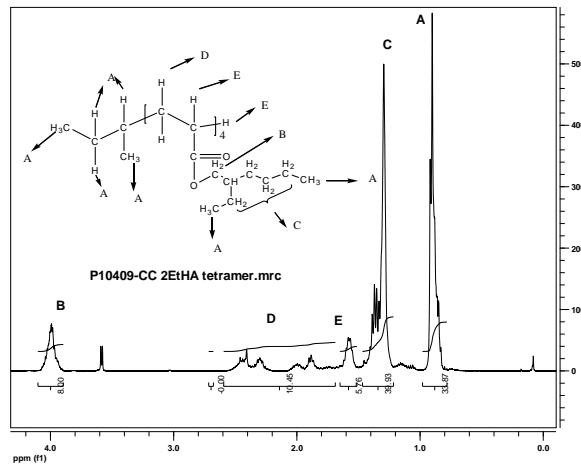
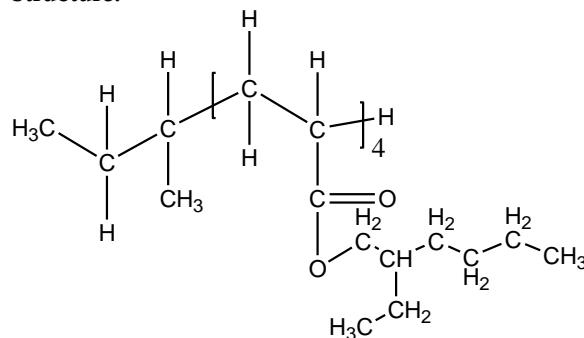


Sample Name: Tetramers of Poly(2-ethylhexyl acrylate)

Sample #: P10409CC-2EtHXA

Structure:



Composition:

Degree of Polymerization	PDI
Dp by HNMR: 4	1.09
Mass: 794	

Please make a note the tetramers keeping at room temperature start precipitating: warming solution at 50° get clear honey like product

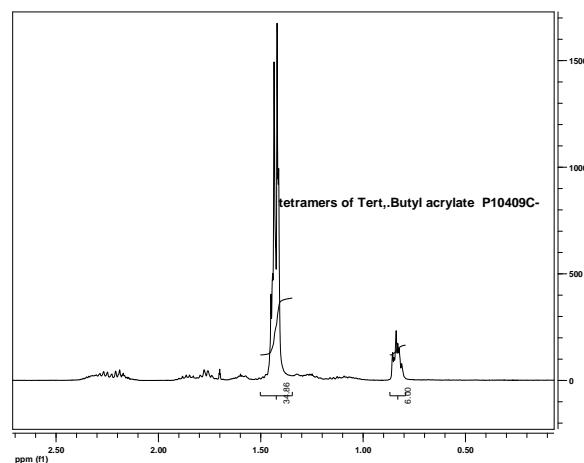
Synthesis Procedure:

Poly(2ethyl hexyl acrylate) is obtained by living anionic polymerization.¹⁻⁴

Characterization:

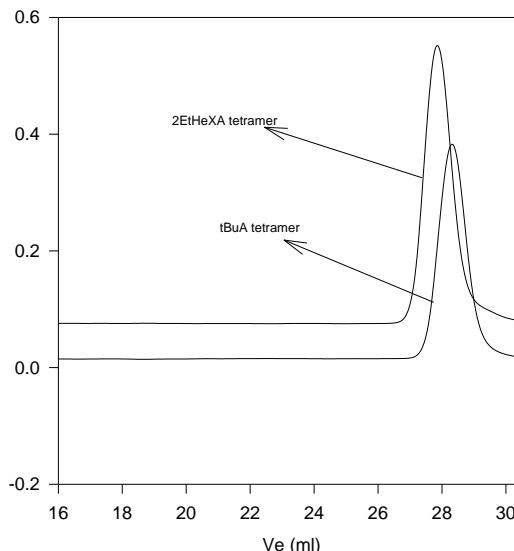
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

H NMR of the starting tetramers of tBuA



SEC of Sample:

P10409CC- Tetramers of 2EtHXA



Size Exclusion Chromatography of Polymer:

Dp of 2EtHxA monomer is : 4 Mw/Mn 1.09

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