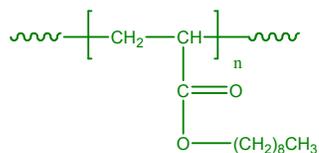


## Sample Name: Poly(n-nonyl acrylate)

Sample #: P10532A-nNA

### Structure:



### Composition:

$M_n \times 10^3$	PDI
292.0	1.28

### Synthesis Procedure:

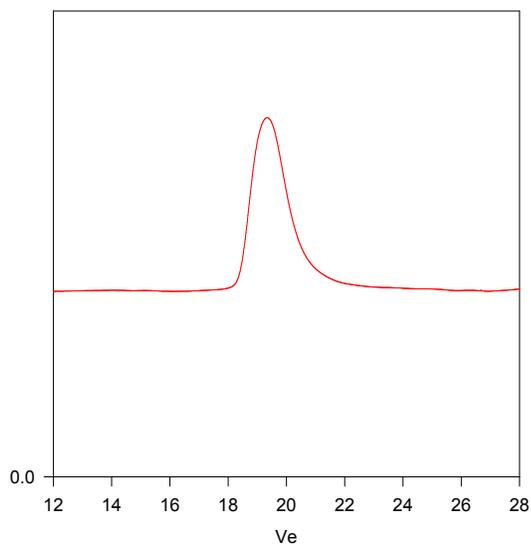
Poly(n-nonyl acrylate) is obtained by group transfer or anionic polymerization of tBuA and then transesterification reaction of tert butyl to n-nonyl acrylate.

### 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.

### SEC of the Homopolymer:

P10532A-nNA



Size Exclusion Chromatography of Poly(n-nonyl acrylate):

$M_n = 292,000$ ,  $M_w = 373,000$ ,  $M_w/M_n = 1.28$

### Solubility:

Poly(n-butyl acrylate) is soluble in THF, toluene and  $CHCl_3$ . This polymer precipitates from ethanol and methanol containing 10-15% water.