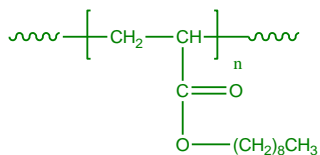


**Sample Name: Poly(n-nonyl acrylate)**

**Sample #: P9691-nNA**

**Structure:**



**Composition:**

|                   |     |
|-------------------|-----|
| $M_n \times 10^3$ | PDI |
| 2000.0            | 1.3 |

**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:**

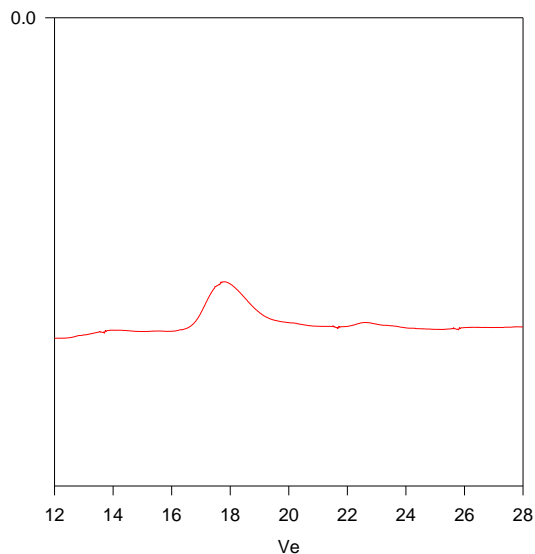
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

**Solubility:**

Poly(n-butyl acrylate) is soluble in THF, toluene and  $\text{CHCl}_3$ . This polymer precipitates from ethanol and methanol containing 10-15% water.

**SEC of the Homopolymer:**

**P9691-nNA**



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

$M_n = 2000,000$ ,  $M_w = 2600,000$ ,  $M_w/M_n = 1.3$