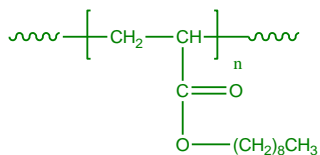


## Sample Name: Poly(n-nonyl acrylate)

Sample #: P6312-nNA

**Structure:**

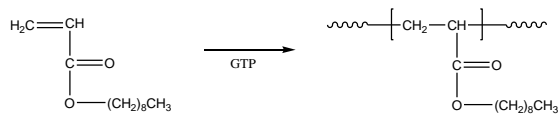


**Composition:**

$M_n \times 10^3$	PDI
7.0	1.3

### **Synthesis Procedure:**

Poly(n-nonyl acrylate) is obtained by group transfer polymerization (GTP) of n-nonyl acrylate. The reaction scheme is shown below:



### **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  $CHCl_3$ . This polymer precipitates from ethanol and methanol containing 10-15% water.

### **SEC of the Homopolymer:**

