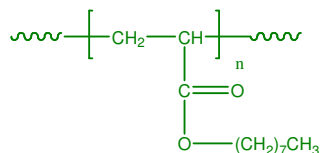


Sample Name: Poly(n-octyl acrylate)

Sample #: P18672-nOctA

**Structure:**

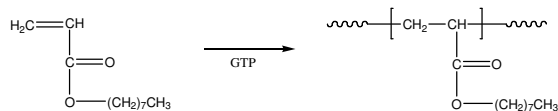


**Composition:**

Mn x 10 <sup>3</sup>	PDI
97.5	1.28

**Synthesis Procedure:**

Poly(n-octyl acrylate) is obtained by group transfer polymerization (GTP) of n-octyl 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.

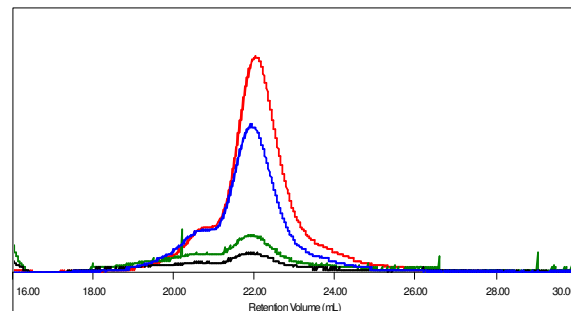
**Solubility:**

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

**SEC of the Homopolymer:**

**Sample ID:** P18672-OctA

Concentration (mg/mL)	14.6800
Sample ch'd: (mL/g)	0.0850
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mw	Mp	Mw/Mh	IV
P18672-OctA_01.vcl	97,659	124,583	83,521	1.276	0.2088

