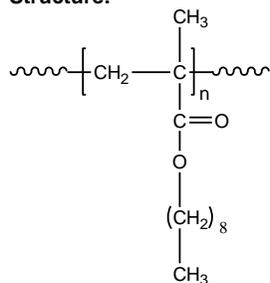


**Sample Name: Poly(n-nonyl methacrylate)**

**Sample #: P6148-NMA**

**Structure:**

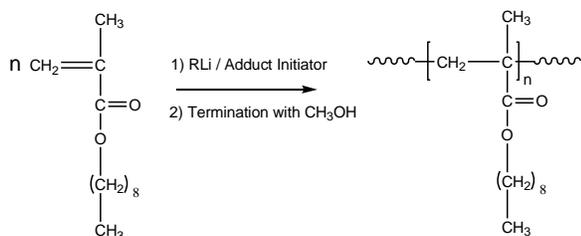


**Composition:**

$M_n \times 10^3$	PDI
4.7	1.13

**Synthesis Procedure:**

Poly(n-nonyl methacrylate) is obtained by living anionic polymerization of n-nonyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



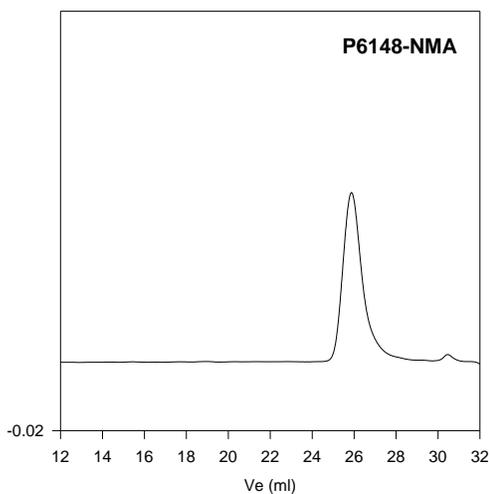
**Characterization:**

The molecular weight and polydispersity index (PDI) of Poly(n-nonyl methacrylate) are obtained by size exclusion chromatography.

**Solubility:**

Poly(n-nonyl methacrylate) is soluble in THF,  $\text{CHCl}_3$ , toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

**SEC of Homopolymer:**



Size exclusion chromatograph of Poly(nonyl methacrylate):

$M_n=4700$ ;  $M_w=5300$ ;  $PI=1.13$