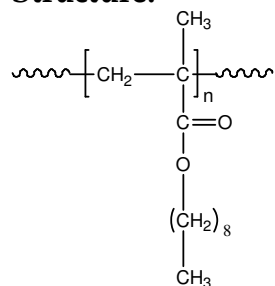


**Sample Name: Poly(n-nonyl methacrylate)**

**Sample #: P13202-NMA**

**Structure:**

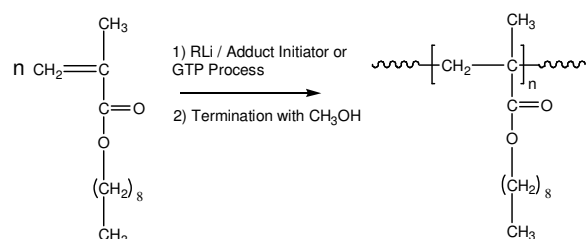


**Composition:**

$M_n \times 10^3$	PDI
7.0	1.2
Mircostructure	Syndio:hetero:Iso contents 53: 40: 7

**Synthesis Procedure:**

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



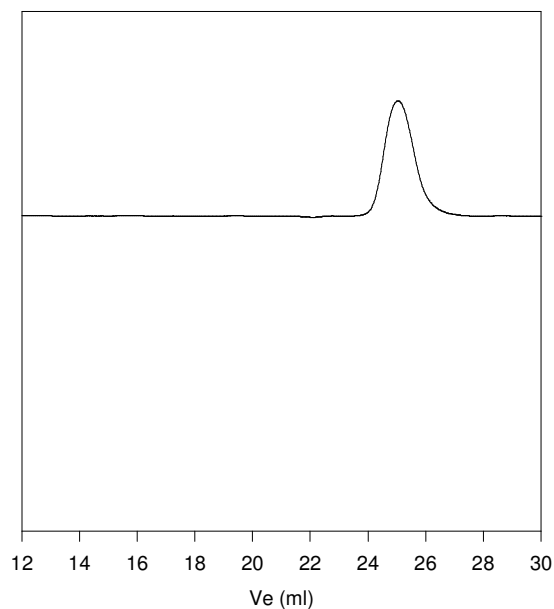
**Characterization:**

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: P9331-NMA**



Size exclusion chromatograph of Poly(nonyl methacrylate):  
 $M_n=7000$ ;  $M_w=8000$ ;  $PI=1.15$

