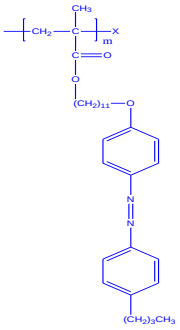
Sample Name: **Poly(AzoMA)**

(AZoMA=11-[4-(4-butylphenylazo)phenoxy]-undecyl methacrylate)

Sample #: **P9484-AzoMA**

Structure:



Composition:

$Mn \times 10^3$	PDI
16.0	1.2
T_m (^oC	T_c (^oC):
Microstructure	Syndio:heter:iso 63:37:0

Synthesis Procedure:

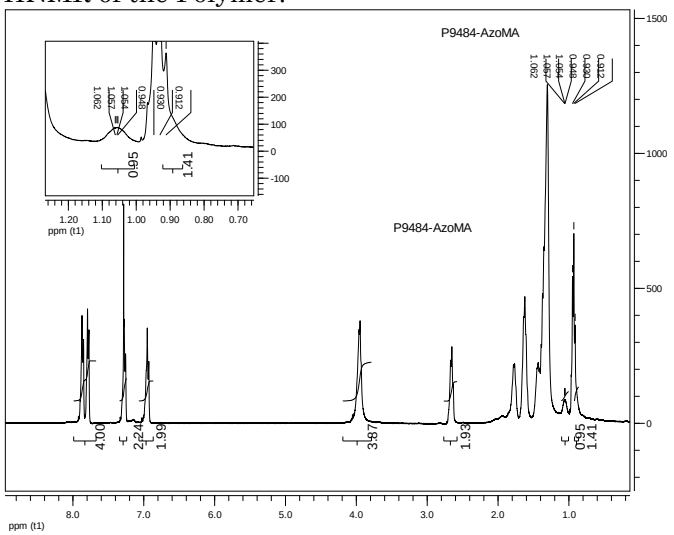
Poly(AzoMA) is prepared by anionic polymerization using diphenyl methyl potassium initiator.

Characterization: **P**olymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight.Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}C/min. The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

Solubility:

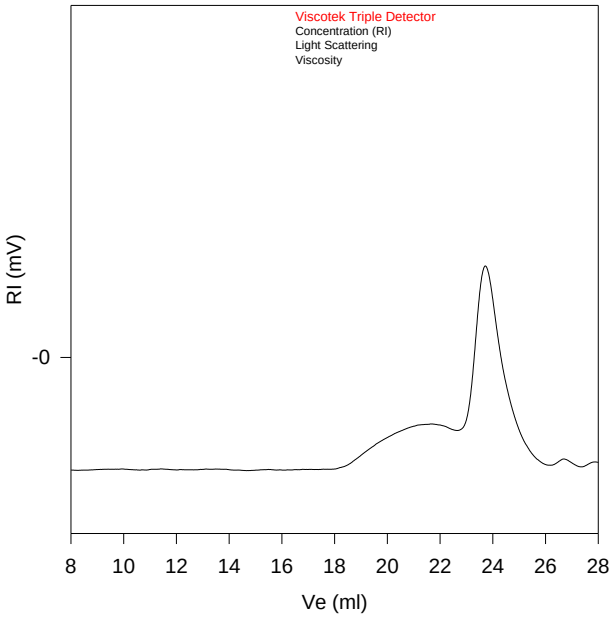
Poly(AzoMA) is soluble in THF, acetone, and chloroform and it precipitates out in hexane or cold methanol.

HNMR of the Polymer:



SEC of the Product:

P9484-AZOMA



Size Exclusion Chromatography of Polymer:

—— PAZOMA : M_n = 16,000 M_w/M_n = 1.22