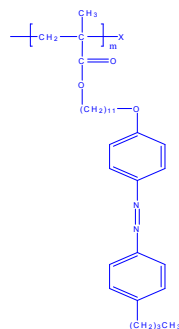


Sample Name: Poly(AzoMA)

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

Sample #: P9486-AzoMA

Structure:



Composition:

Mn × 10 ³	PDI
11.0	1.4
T _m (°C)	T _c (°C):
Microstructure	Syndio:heter:iso 63:37:0

Synthesis Procedure:

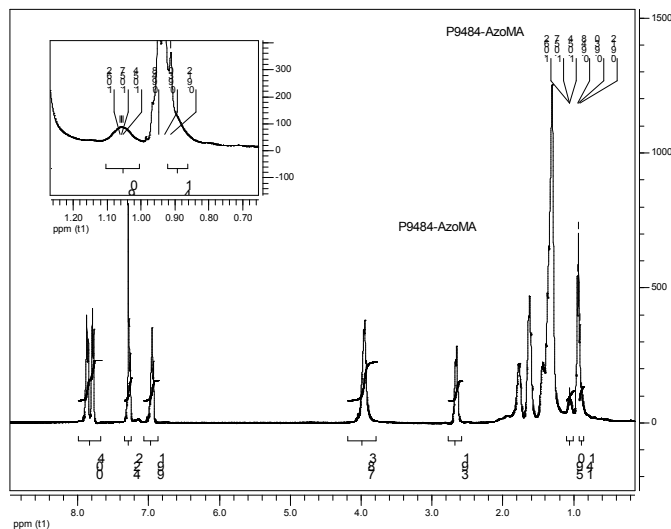
Poly(AzoMA) is prepared by anionic polymerization using diphenyl methyl potassium initiator.

Characterization: Polymer 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°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.

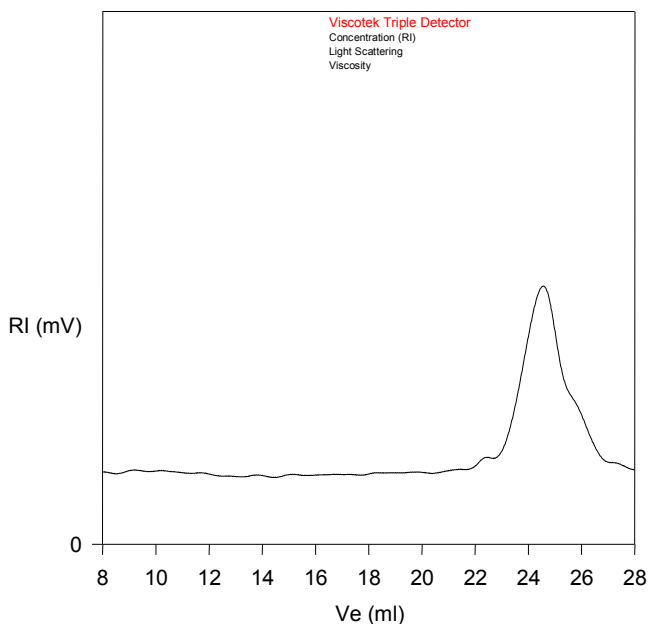
Solubility:

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

¹H NMR of the Polymer:



SEC of the Product:



Size Exclusion Chromatography of Polymer:

— PAZOMA : M_n = 11,000 Mw: 15,400 M_w/M_n = 1.4