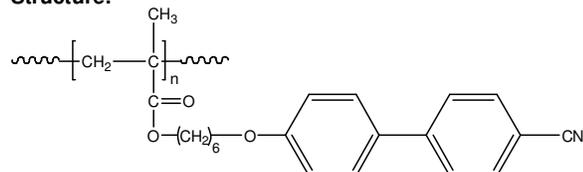
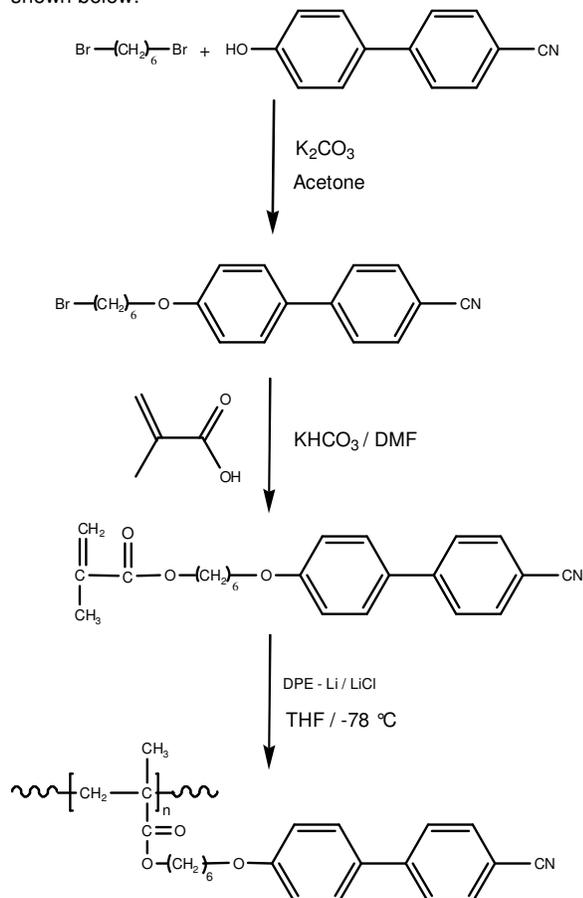


**Sample Name:****Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate)****Sample #: p3421-4CNBPHMA****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
101.0	1.40

**Synthesis Procedure:**

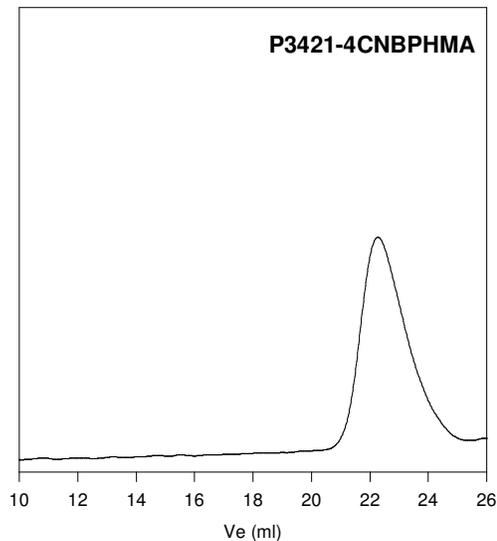
Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) is obtained by living anionic polymerization of the monomer. The reaction scheme used for the polymer synthesis is shown below:

**Characterization:**

The molecular weight and polydispersity index (PDI) of Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) are obtained by size exclusion chromatography.

**Solubility:**

Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) is soluble in THF, acetone, dichloromethane and chloroform but insoluble in hexane, ethanol and water.

**SEC of Homopolymer:**

Size exclusion chromatography of 4CNBPHMA:

$M_n=101000$ ,  $M_w=141000$ ,  $PI=1.40$