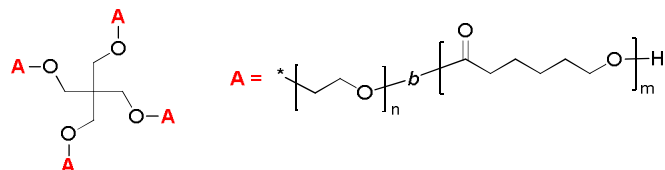


Sample Name:

Four-arm poly(ethylene oxide-*block*- ϵ -caprolactone)
star polymer with pentaerythritol core

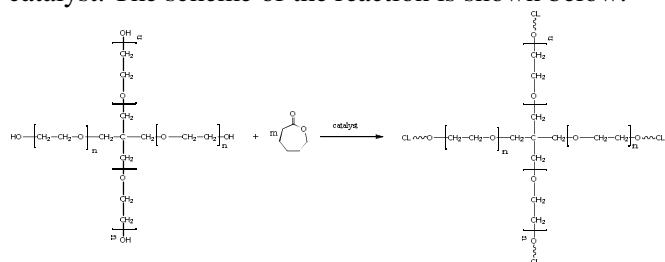
Sample # P3447-4EOCL

Structure:**Composition:**

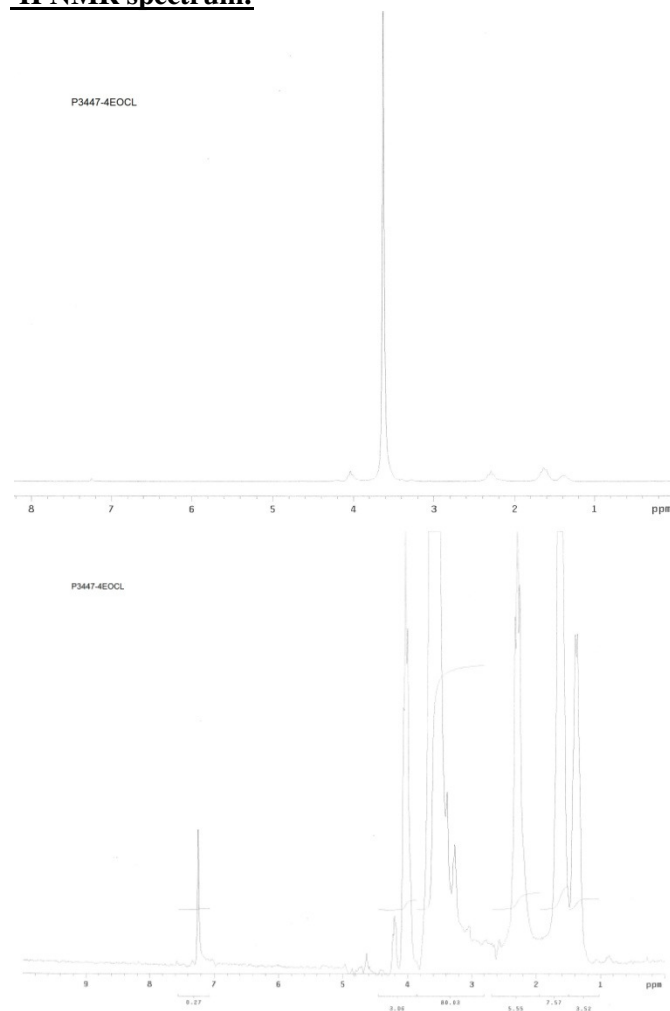
$M_n \times 10^3$ (g/mol) of each PEO- <i>b</i> -PCL arm	M_w/M_n
2.5- <i>b</i> -0.5	1.08

Synthesis procedure:

The polymer was prepared by ring opening polymerization of caprolactone using Tin octoate catalyst. The scheme of the reaction is shown below:

**Characterization:**

The molecular weight of the polymer was calculated by ^1H -NMR spectroscopy by comparing the integration of protons assigned to core (~ 3.6 ppm) and to ϵ -caprolactone (~ 4.1 ppm). Polydispersity index (M_w/M_n) was determined by size exclusion chromatography (SEC) on Varian liquid chromatograph equipped with triple detector, Supelco columns, and using THF (cont. 2 vol% Et_3N) as an eluent.

 ^1H NMR spectrum:**SEC elugrams:**