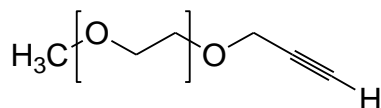


**Sample Name:** Poly(ethylene glycol), ( $\alpha$ -methoxy,  $\omega$ -alkyne)-terminated

**Sample #:** P43759-EGOCH3-alkyne

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
0.75	1.06
Alkyne Functionality: 60%	

**Synthetic Procedure:**

$\alpha$ -methoxy,  $\omega$ -alkyne terminated poly(ethylene glycol) was synthesized by anionic process, followed by condensation with propargyl bromide.

**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>HNMR.

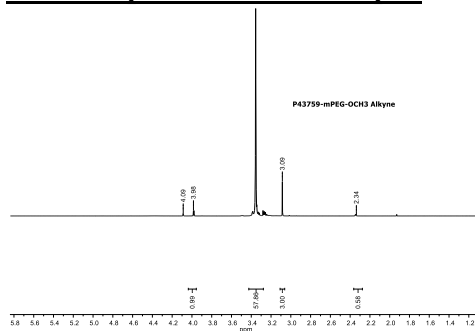
**Solubility:**

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC). Functionality of the polymer was determined by <sup>1</sup>HNMR and FT-IR spectroscopy.

**Solubility:**

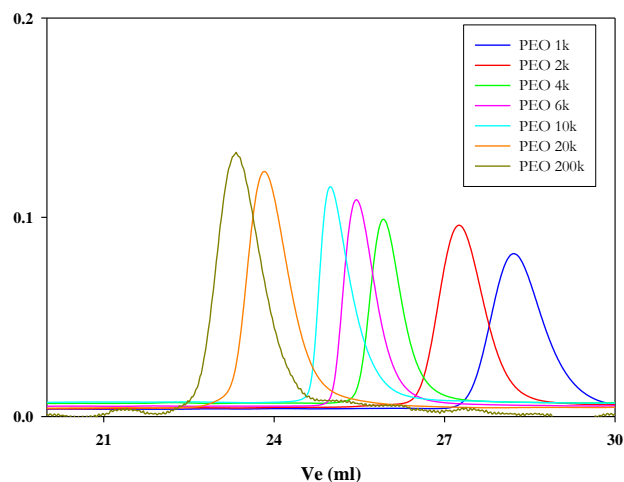
Polymer is soluble in water, methanol, ethanol, THF, and CHCl<sub>3</sub>. It is precipitated out from cold ethanol, isopropanol, hexane, and ether.

**<sup>1</sup>HNMR spectrum of the Sample:**



**SEC elugrame of the Sample:**

SEC of selected Polyethylene oxide standard



**FTIR spectrum of the sample:**

