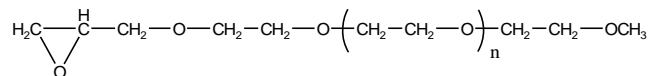


Sample Name: α -epoxy, ω -methoxy Terminated Poly(ethylene glycol)

Sample #: P8439-EGOCH3epoxy

Structure:



Composition:

$M_n \times 10^3$	PDI	Functionality epoxy
2.0	1.06	>95%

Synthesis Procedure:

α -epoxy, ω -methoxy terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide and termination with epichlorohydrine using sodium counter ions.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

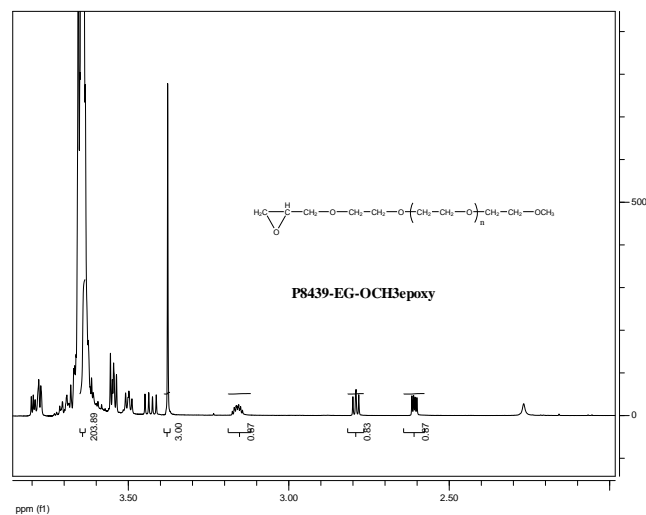
Functionality:

Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy.

Solubility:

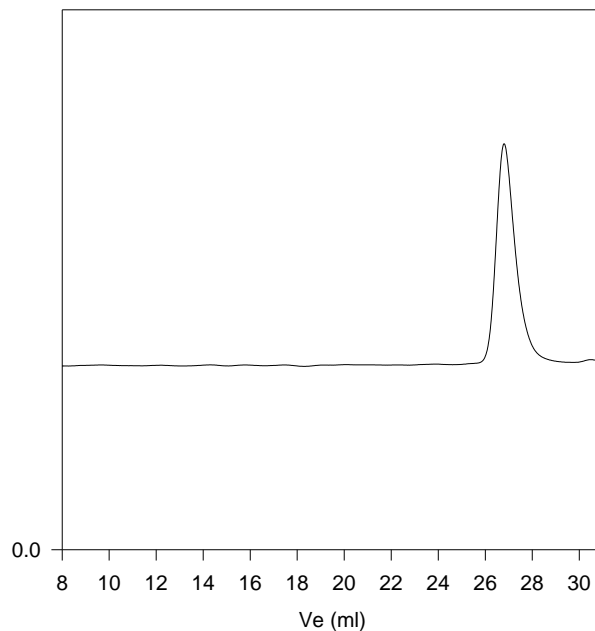
Polymer is soluble in chloroform and THF; it will be also soluble in water, methanol and ethanol. It is precipitated out from cold hexane and ether (-20°C).

HNMR of the product:



SEC of product:

P8439- EGOCH3epoxy



Size exclusion chromatography:

— Epoxy terminated Poly(ethylene glycol) methyl ether
 $M_n=2000$, $M_w=2120$, $PI=1.06$