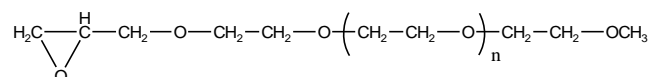


Sample Name: α -epoxy, ω -methoxy Terminated Poly(ethylene glycol)
Sample #: P8466-EGOCH3epoxy

Structure:



Composition:

Mn x 10 ³	PDI	Functionality epoxy
6.0	1.09	>99%

Synthesis Procedure:

α -epoxy, ω -methoxyl 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.

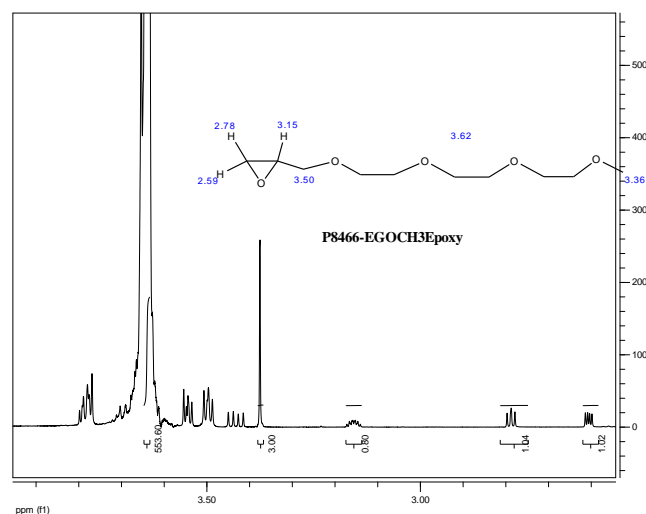
Functionality:

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

Solubility:

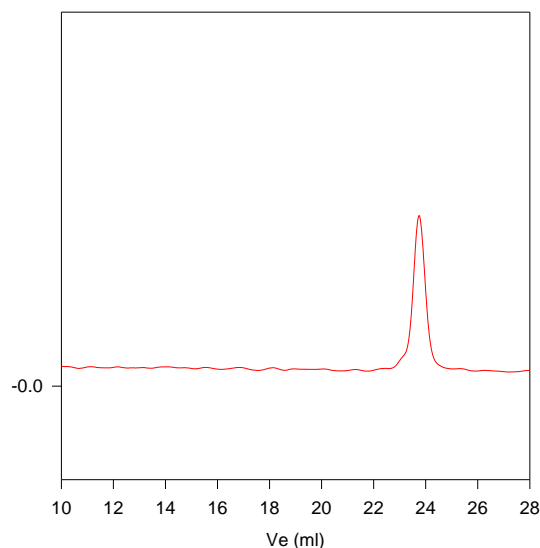
Polymer is soluble in chloroform and THF; it will be also soluble in water, methanol and ethanol. It is precipitated out from cold hexane and ether(-20°C).

HNMR of the product:



SEC of product:

P8466-EGOCH3epoxy



Size exclusion chromatograph of epoxy terminated poly(ethylene glycol) methyl ether:
M_n=6000, M_w=6500, PI=1.09 (f: >99%)