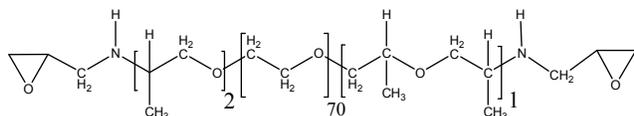


Sample Name:

α - ω -diepoxy Terminated Poly(ethylene glycol)

Sample #: P14330A-EGdiepoxy

Structure:



Composition:

Mn x 10 ³	PDI
1.0	1.15

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.

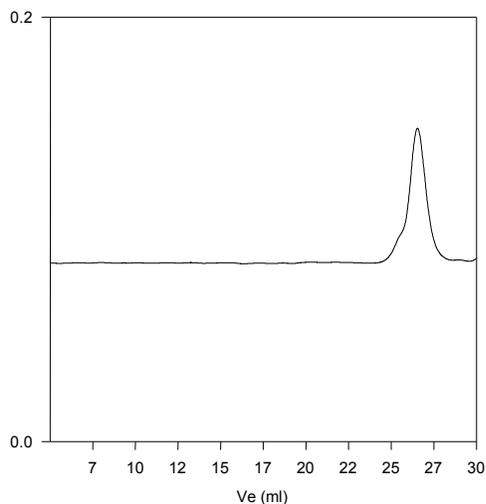
Functionality: Functionality of the polymer was determined by ¹H NMR analysis or FT-IR spectroscopy.

Solubility:

Polymer is soluble in water, methanol and ethanol. It is precipitated out from cold hexane and ether (-20°C).

SEC profile of Poly(ethylene glycol)

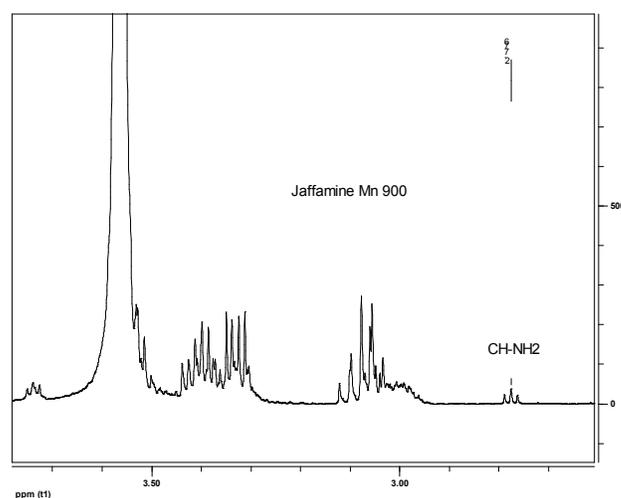
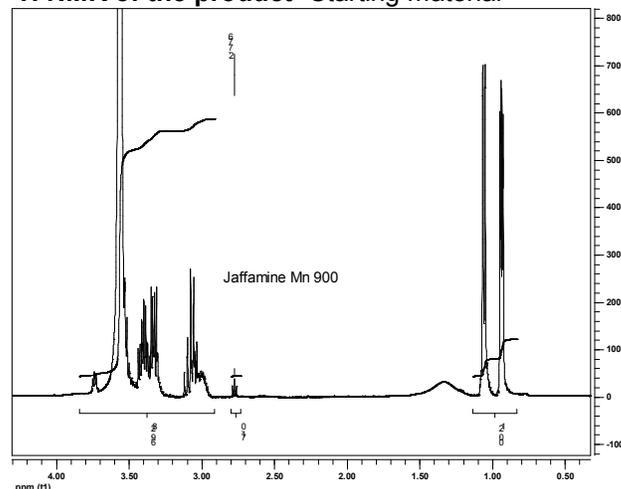
P14330A-EGdiepoxy



Size exclusion chromatography of functionalized α - ω -diepoxy terminated Poly(ethylene glycol):

M_n=1000, M_w=1150, Mw/Mn =1.15

¹H NMR of the product -Starting material



¹H NMR of the polymer after reaction with Epichlorohydrine:

