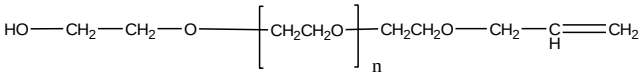
Sample Name:

α– Hydroxy, ω-Allyl Terminated Poly(ethylene glycol)

Sample #: P8959-EGOHAllyl

Structure:

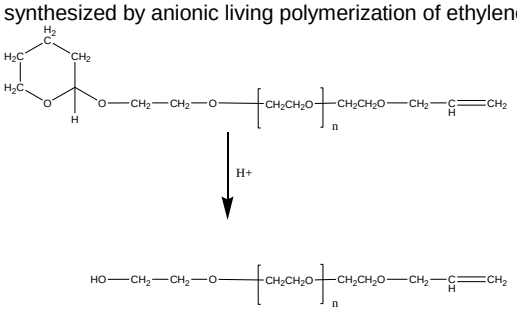


Composition:

Mn x 10^3	PDI
3.0	1. 09

Synthesis Procedure:

α–hydroxy, ω-allyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide.



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:

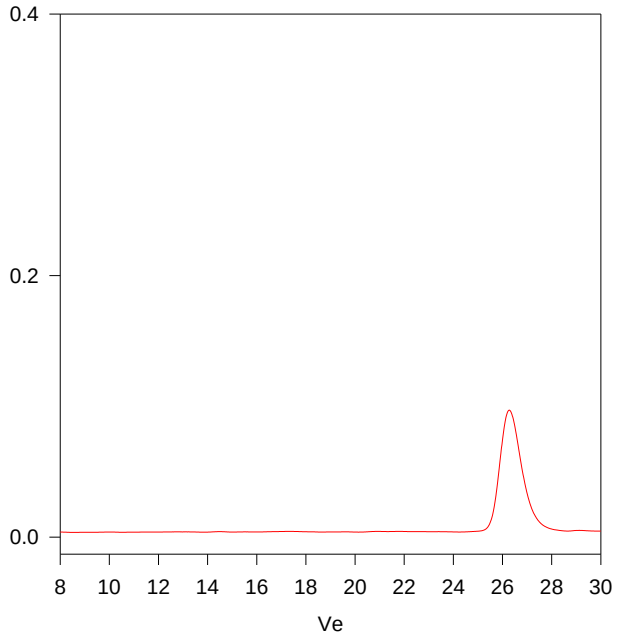
Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy.

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).

SEC profile of Poly(ethylene glycol)

P8959-EGOHAllyl

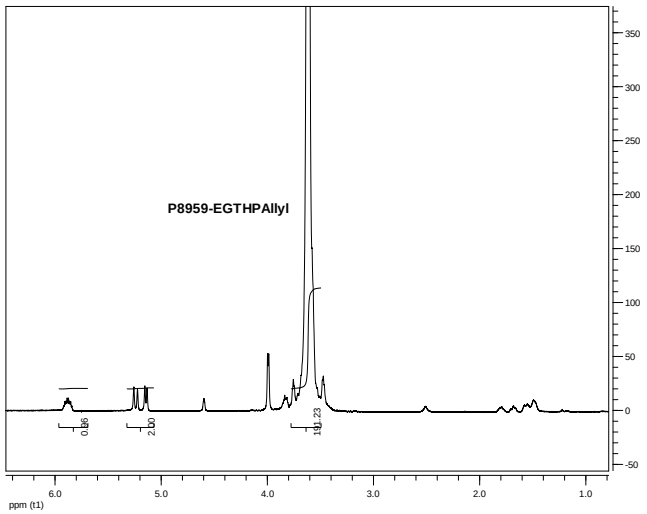


Size Exclusion Chromatography of the Polymer:

M_w= 3000, M_n=3200, M_w/M_n=1.09

HNMR of the product:

1. Allyl terminated PEG



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