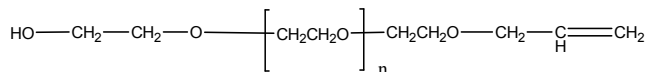


Sample Name:

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

Sample #: P5664-EGOHallyl

Structure:



Composition:

Mn x 10 ³	PDI
1.3	1.15
Allyl functionality	> 80%

Synthesis Procedure:

α -Hydroxy, ω -allyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization.

Characterization:

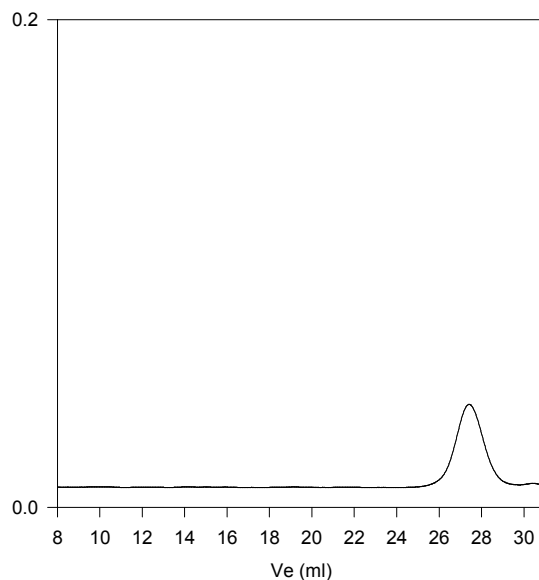
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

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) allyl ether
P5664- EGOHallyl**



Size exclusion chromatography:

— Poly(ethylene glycol) allyl ether, $M_n=1300$, $M_w=1450$, $PI=1.15$
Mn by HNMR

HNMR of the product:

1. Allyl terminated PEG

