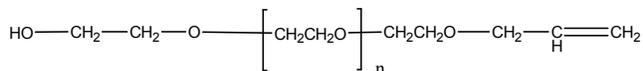


## Sample Name:

$\alpha$ -Hydroxy,  $\omega$ -Allyl Terminated Poly(ethylene glycol)

Sample #: P5664-EGOHallyl

## Structure:



## Composition:

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

## Synthesis Procedure:

$\alpha$ -Hydroxy,  $\omega$ -allyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization.

## Characterization:

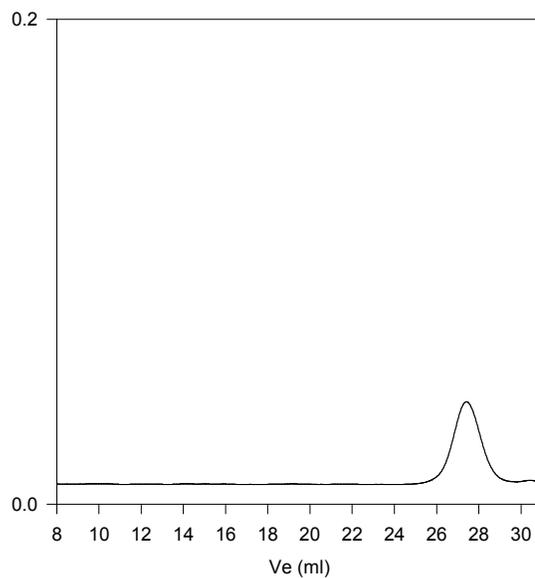
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

**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<sub>n</sub>=1300, M<sub>w</sub>=1450, PI=1.15  
Mn by HNMR

## HNMR of the product:

### 1. Allyl terminated PEG

