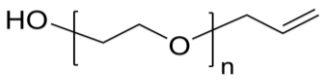
Sample Name:
Poly(ethylene glycol), (α-hydroxy, ω-allyl)-terminated

Sample #: **P42613-EGOHAllyl**

Structure:



Composition:

Mn x 10^3	PDI	Dp	Allyl functionality
0.8	1.08	18	> 98%

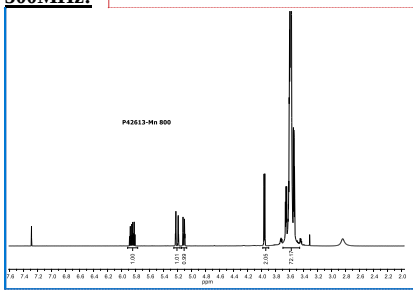
Synthesis Procedure:
α-Hydroxy, ω-Allyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization.

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.

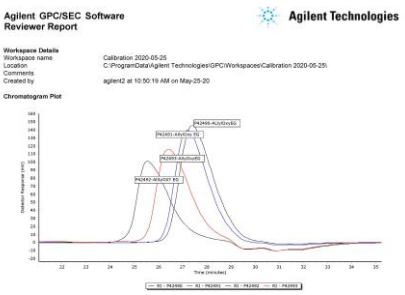
Functionality:
Functionality of the polymer was determined by ^{1}H-NMR analysis.

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).

^{1}H-NMR spectrum of the product in DMSO at 500MHz:



SEC profile of Poly(ethylene glycol) allyl ether:



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