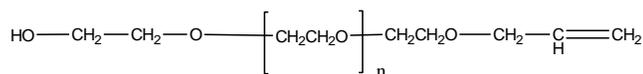


Sample Name:
 α -Hydroxy, ω -Allyl Terminated Poly(ethylene glycol)

Sample #: **P42490-EGOHAllyl**

Structure:



Composition:

Mn x 10 ³	PDI	Dp	Allyl functionality
0.4	1.08	9	> 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.

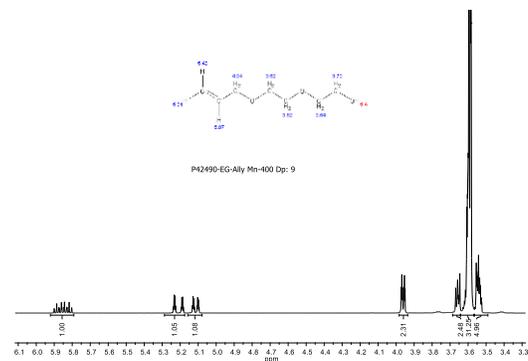
Functionality:

Functionality of the polymer was determined by ¹H NMR analysis.

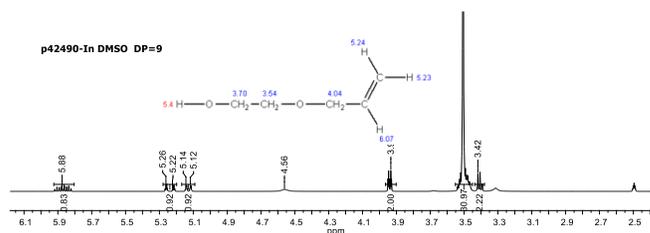
Solubility:

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).

¹H-NMR spectrum of the product in CdCl₃:



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



SEC profile of Poly(ethylene glycol) allyl ether:

Agilent GPC/SEC Software
 Reviewer Report



Workspace Details
 Workspace name Calibration 2020-05-25
 Location C:\ProgramData\Agilent Technologies\GPC\Workspaces\Calibration 2020-05-25
 Comments
 Created by agilent2 at 10:50:19 AM on May-25-20

Chromatogram Plot

