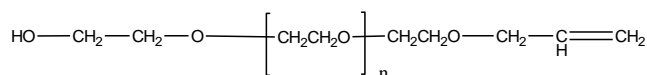


Sample Name:

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

Sample #: **P42493-EGOHAllyl**

Structure:



Composition:

Mn x 10 ³	PDI	Dp	Allyl functionality
1.5	1.08	34	> 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.

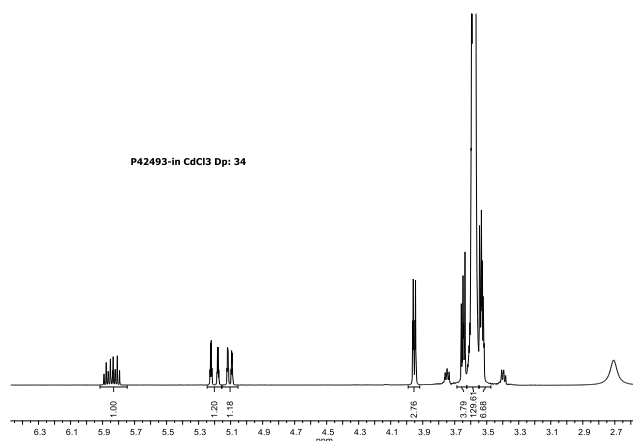
Functionality:

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

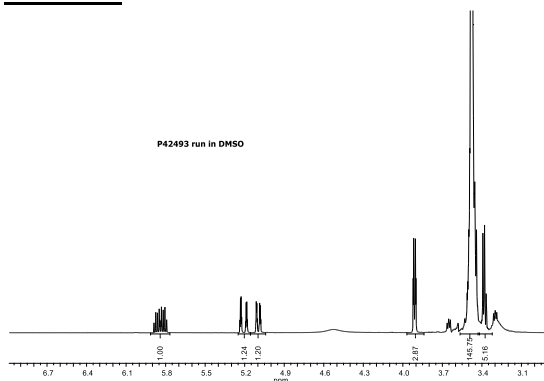
Solubility:

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



Agilent Technologies

Workspace Details

Workspace name

Location

Comments

Created by

Calibration 2020-05-25

C:\ProgramData\Agilent Technologies\GPC\Workspaces\Calibration 2020-05-25\

agilent2 at 10:50:19 AM on May-25-20

Chromatogram Plot

