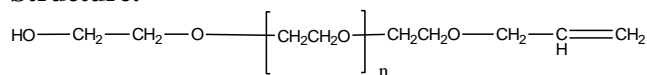


Sample Name:

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

Sample #: **P42492-EGOHAllyl**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI	Dp	Allyl functionality
2.7	1.08	61	> 98%

**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.

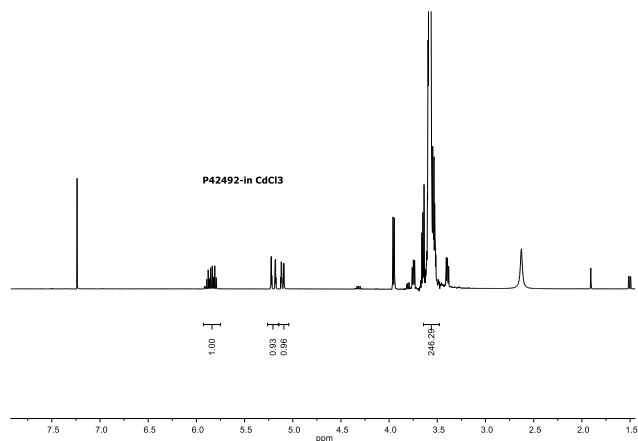
**Functionality:**

Functionality of the polymer was determined by <sup>1</sup>H NMR analysis or FT-IR spectroscopy.

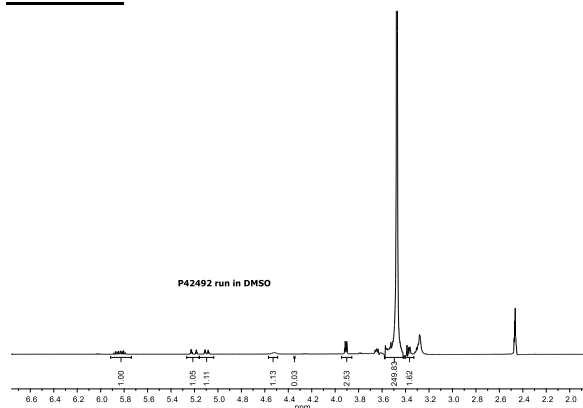
**Solubility:**

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).

**<sup>1</sup>H NMR spectrum of the product in CdCl<sub>3</sub>:**



**<sup>1</sup>H 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

