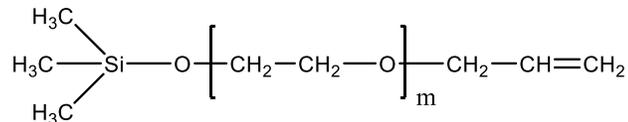


Sample Name: α -Trimethylsiloxy, ω -Allyl Terminated Poly(ethylene glycol)

Sample #: P42773-EGTMSAllyl

Structure:



Composition:

Mn x 10 ³	PDI	Dp	Allyl functionality (TMS functionality)
0.5	1.08	12	> 98%
0.5	1.08	12	> 98%

Synthesis Procedure:

α -Trimethyl siloxy, 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.

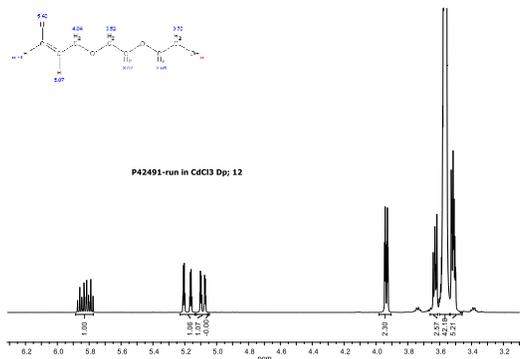
Functionality:

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

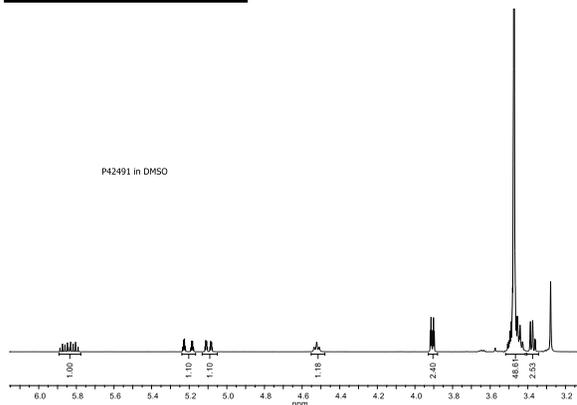
Solubility:

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).

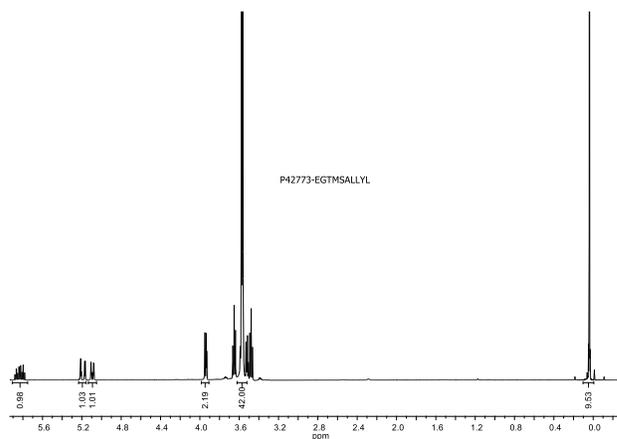
¹H-NMR spectrum of the product (PEG allyl) in CdCl₃:



¹H-NMR spectrum of the product (PEG allyl) in DMSO at 500MHz:



¹H-NMR spectrum of the product (PEG-TMS allyl) in CdCl₃ at 400MHz:



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

