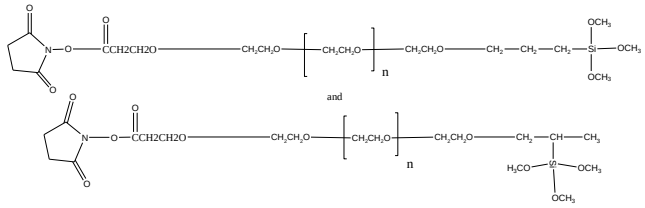
Sample Name:

α–N–hydroxy succinimide, ω-Trimethoxy Terminated Poly(ethylene glycol)

Sample #: P8085-EG-NHSTMS

Structure:

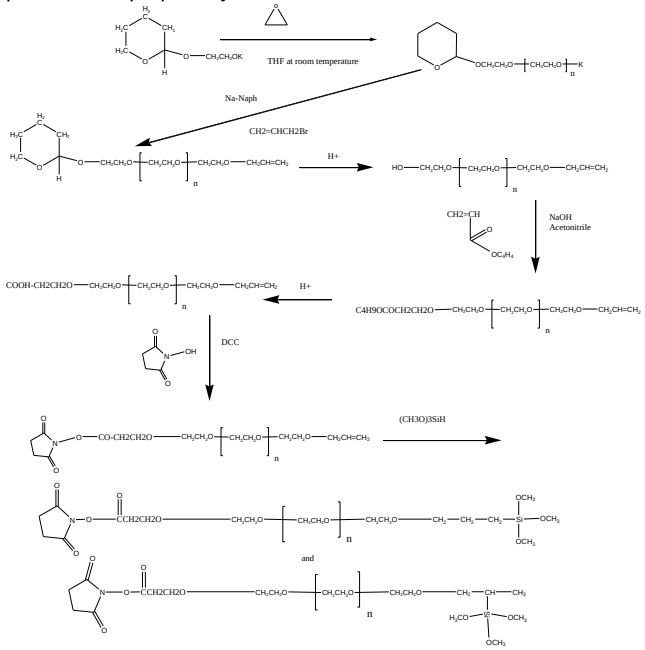


Composition:

Mn x 10^3	PDI
1.10	1.18

Synthesis Procedure:

α– hydroxy succinimide, ω-trimethoxy silyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide. The hydrosilation was carried out in the presence of a catalyst (Pt O) and the degree of hydrosilation was found over 98% as evidenced from H NMR spectroscopy. The procedure is proprietary.



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.

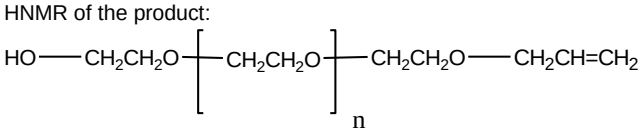
Functionality:

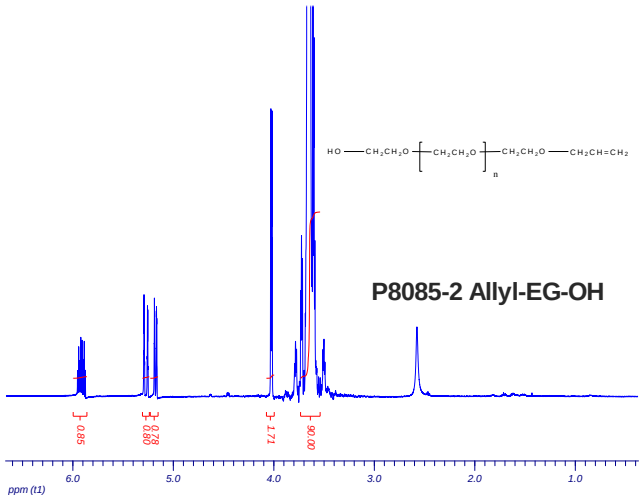
Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy.

Solubility:

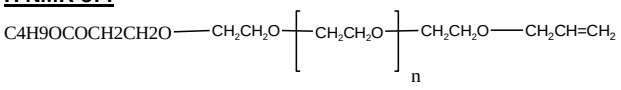
Polymer is soluble in CHCl3, THF, acetone, methanol and ethanol. It is precipitated out from cold hexane and ether.

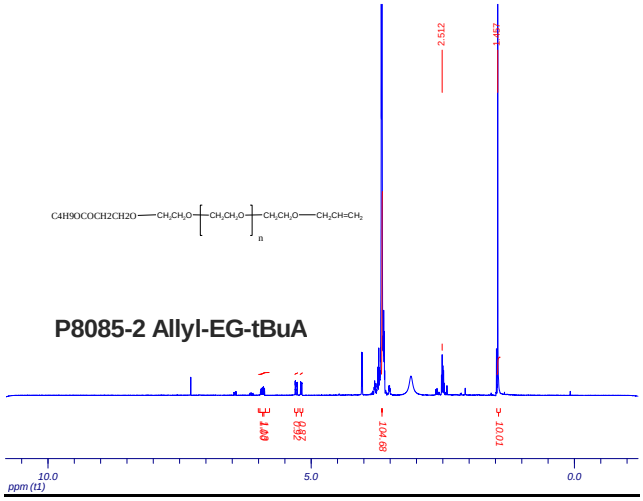
HNMR of the product:



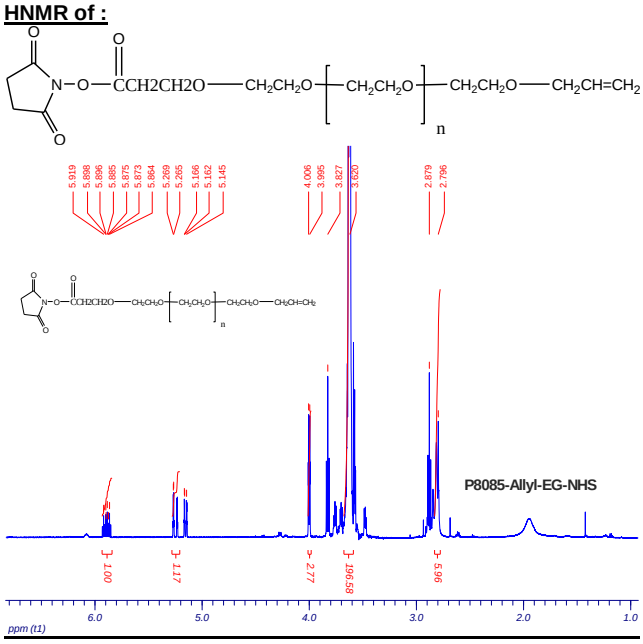


H NMR of :





HNMR of :



H NMR of the NHS-PEG-TMS final product