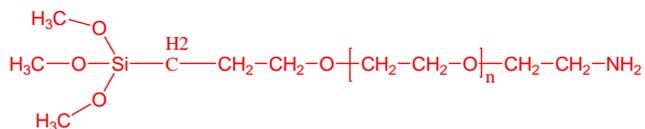


Sample Name:

α -NH₂, ω -Trimethoxy silyl Terminated Poly(ethylene glycol)

Sample #: P9001-EGNH2TMS

Structure:



Composition:

Mn x 10 ³	PDI
0.55	1.2

Synthesis Procedure:

α -NH₂, ω -allyl terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide using amino protected as an initiator followed by deprotection of the end group (hydrolysis in presence of acetic acid). The hydrosilylation was carried out in the presence of a catalyst and the degree of hydrosilylation 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.

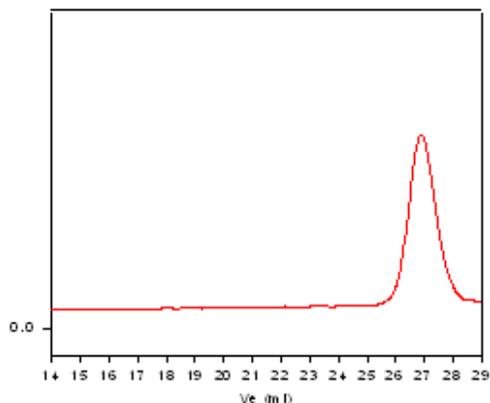
Functionality:

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

Solubility:

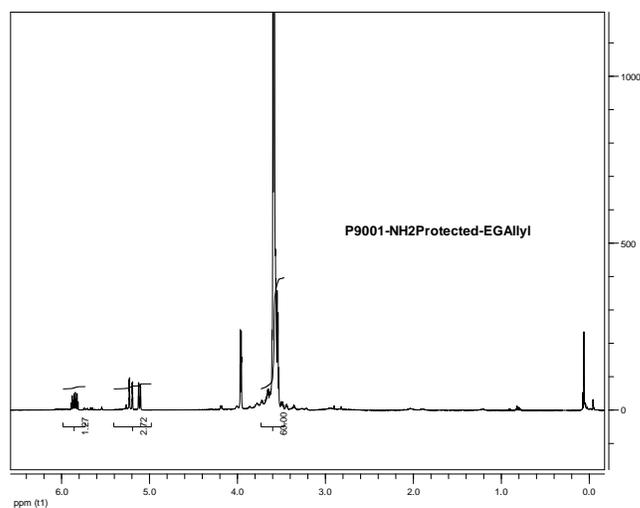
Polymer is soluble in water, methanol and ethanol. It is precipitated out from cold hexane and ether.

SEC of Sample:



Size exclusion chromatography of poly(ethylene glycol) functionalized:
Mn = 550, Mw = 650, PDI = 1.20

H NMR spectrum of the product



HNMR of the Trimethoxy terminated PEG-NH₂

