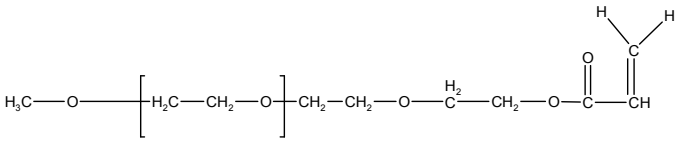
Sample Name: **∝-Methoxy-, ω-Acrylate-end functionalized Poly (ethylene glycol); or Poly (ethylene glycol) methyl ether acrylate**

Sample #: **P40333-mPEGacrylate**

Structure:



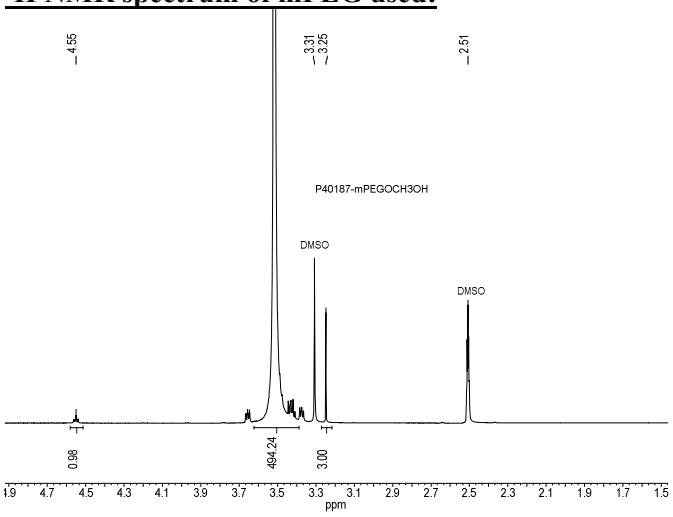
Composition:

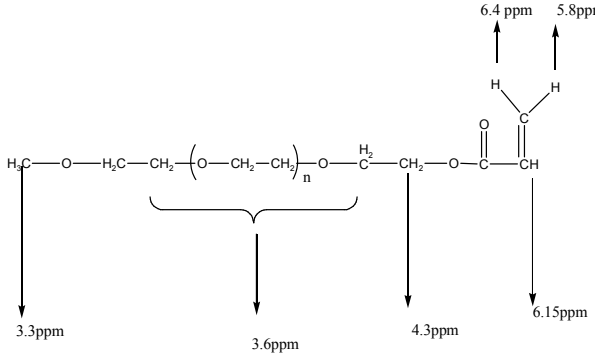
Mn x 10^3	PDI	Functionality (Acrylate)
5.5	1.09	> 98%

Characterization:
The polymer was characterized by SEC and ^{1}H NMR.

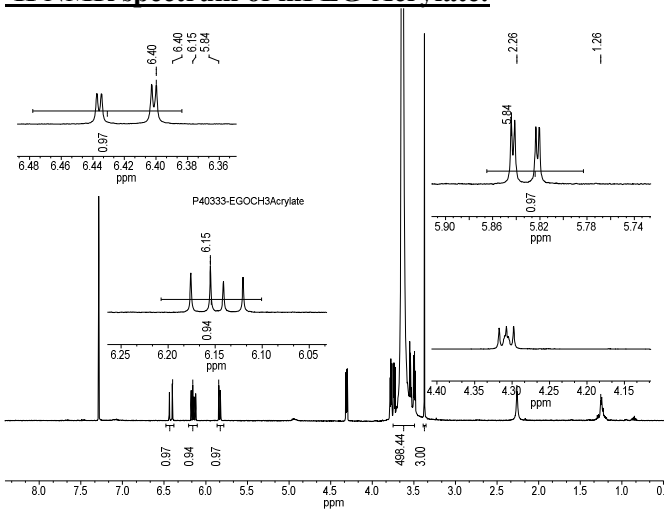
Solubility:
The Polymer is soluble in water, methanol, ethanol, THF, $CHCl_3$. It precipitates from cold ethanol, isopropanol, hexane, ether.

^{1}H NMR spectrum of mPEG used:



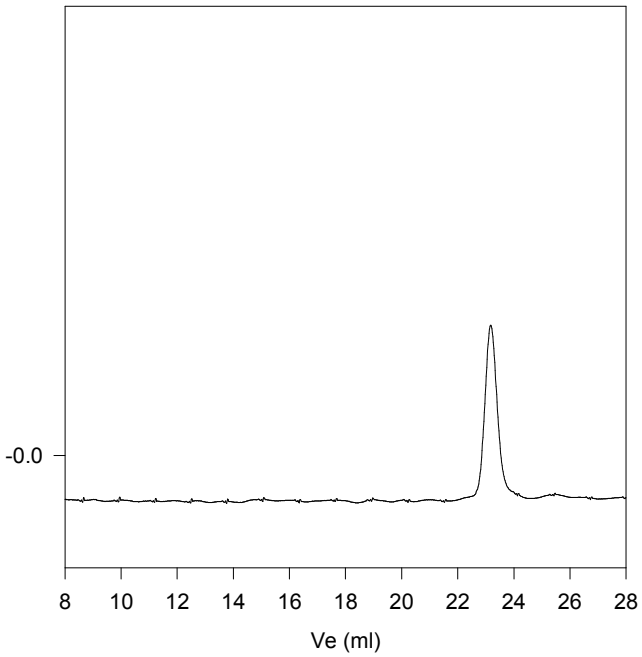


^{1}H NMR spectrum of mPEG-Acrylate:



SEC elugram of mPEG polymer used in the synthesis before converting terminal -OH group into acrylate:

P40333-mPEG-acrylate



Size exclusion chromatograph of poly(ethylene glycol):

M_n=5,500, M_w=6,000, PI=1.09

(v.R-01)