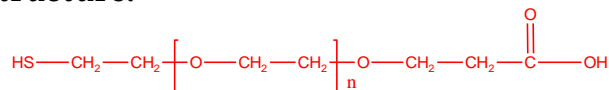


Sample Name:

α -Carboxylic acid - ω -Thiol Terminated
Poly(ethylene glycol)

Sample #: P11416C-EG-COOH SH

Structure:



Composition:

Mn x 10 ³	PDI
0.6	1.3

Synthesis Procedure:

Hetero functional PEG was synthesized as reported in our patent

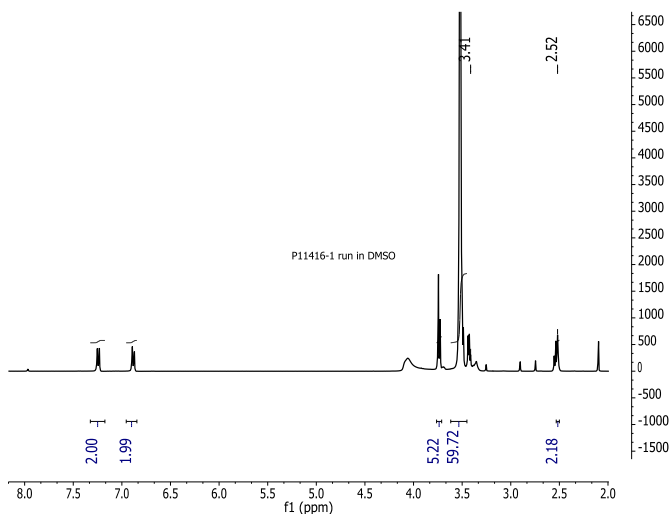
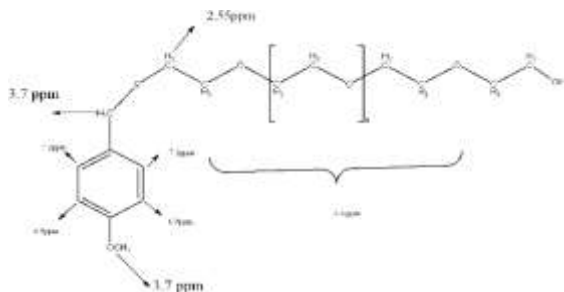
S. K. Varshney, J.X. Zhang, US patent 7,009,033 B2, 2006. Assigned to Polymer source, Inc. Canada Heterofunctional Polyethylene glycol and Poly ethylene oxide, process for their Manufacture

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. Polymer functionality was verified by oxidation of the thiol to disulfide and by titration. **Solubility:**

Polymer is soluble in water, methanol and ethanol,

1. α -methoxy toluene sulfide - ω -Hydroxy Terminated Poly(ethylene glycol)



α -methoxy toluene sulfide - ω -tert.butyl ester Terminated Poly(ethylene glycol)

