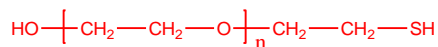


**Sample Name:**  
 **$\alpha$ -Hydroxy- $\omega$ -Thiol Terminated Poly(ethylene glycol)**

**Sample #:** P8681A-EOSHOH

**Structure:**

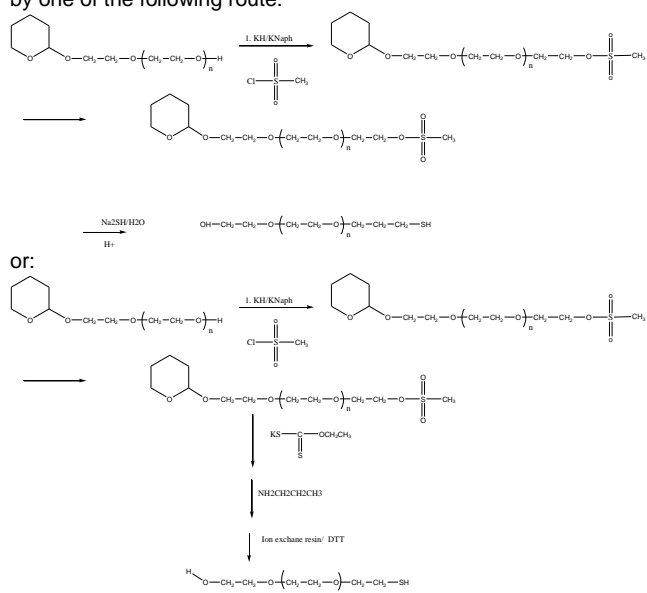


**Composition:**

Mn x 10 <sup>3</sup>	PDI	SH Functionality
2.0	1.15	>95%

**Synthesis Procedure:**

Thiol terminated Poly(ethylene glycol methyl ether) was prepared by one of the following route:



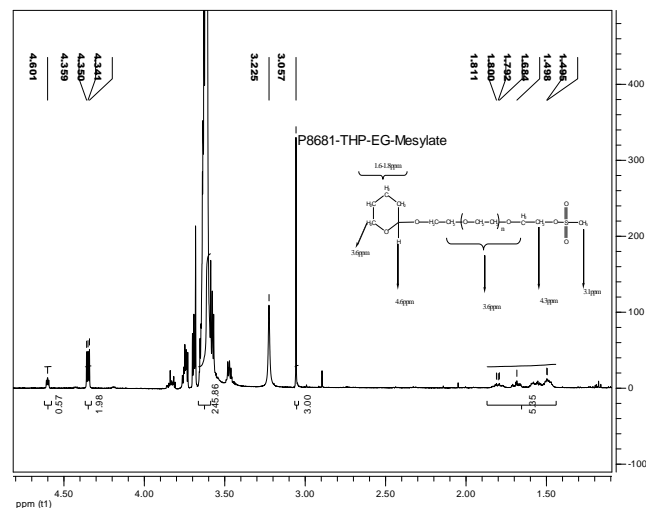
**Characterization:**

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.

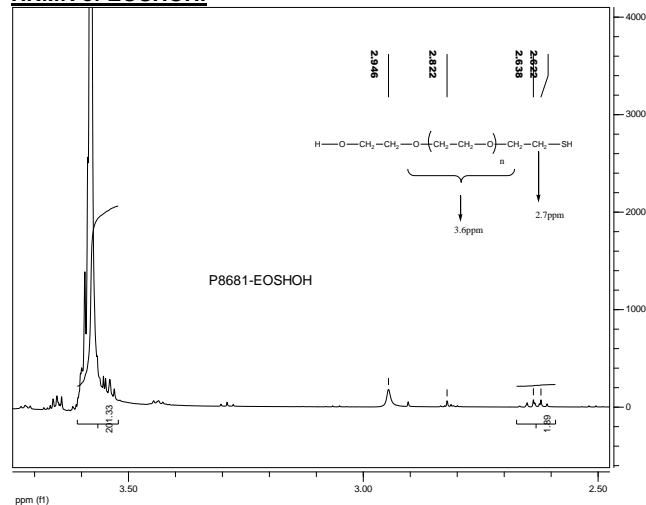
**Solubility:**

Polymer is soluble in water, methanol and ethanol, THF, CHCl<sub>3</sub>. It is precipitated out from cold ethanol, isopropanol, hexane and ether.

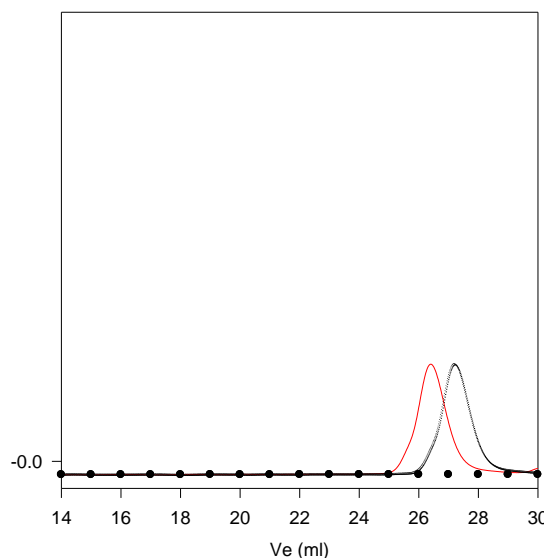
**NMR spectrum: THP-EG-Mesylate**



**HNMR of EOSHOH:**



**P8618A-EGSHOH**



Size exclusion chromatograph of Thiol-terminated Poly(ethylene oxide):

M<sub>n</sub>=2,000, M<sub>w</sub>=2,300, PI=1.15

After oxidation with iodine - showing quantitative functionality