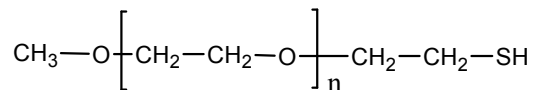


Sample Name:
Thiol Terminated Poly(ethylene glycol)

Sample #: P2416-EOSH

Structure:

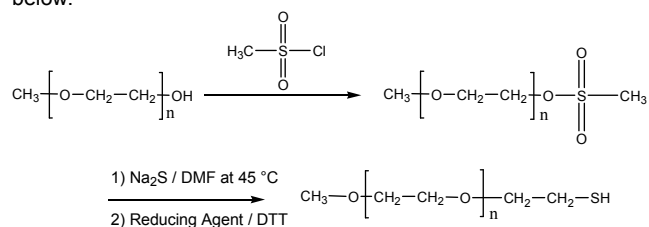


Composition:

Mn x 10 ³	PDI
47.0	1.14

Synthesis Procedure:

Thiol terminated Poly(ethylene glycol methyl ether) was prepared by mesylation of OH terminated PEG reacting it with Na₂S in polar solvent. The product was stabilized with DTT to avoid the formation of disulfide. The scheme of the reaction is illustrated below.



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, CHCl₃. It is precipitated out from cold ethanol, isopropanol, hexane and ether.

SEC of Sample:

P2416-EOSH

