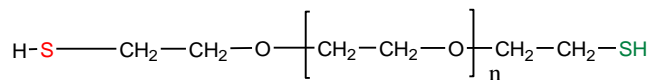


Sample Name:

Poly (ethylene glycol) dithiol or

 α - ω -dithiol Terminated Poly (ethylene glycol)

Sample: P14864-EG2SH

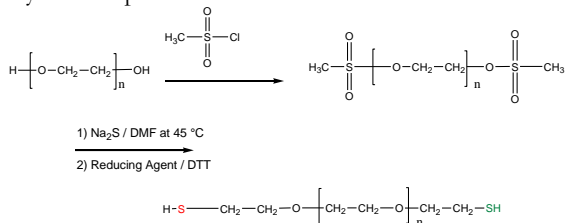
Structure:**Composition:**

Mn x 10 ³	PDI	NH2 functionality
8.5	1.04	> 99%

Mn is based (based on starting material)

Synthesis Procedure:

By anionic process and modifications of terminal Oh to SH:

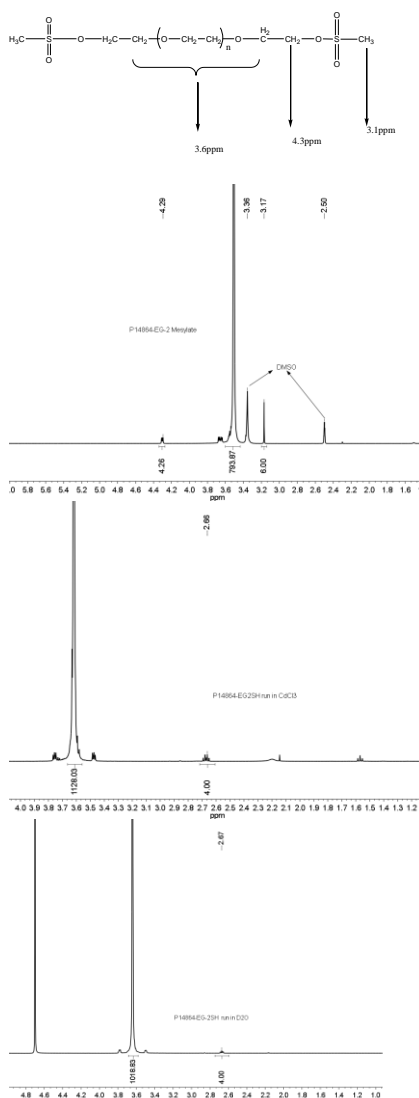
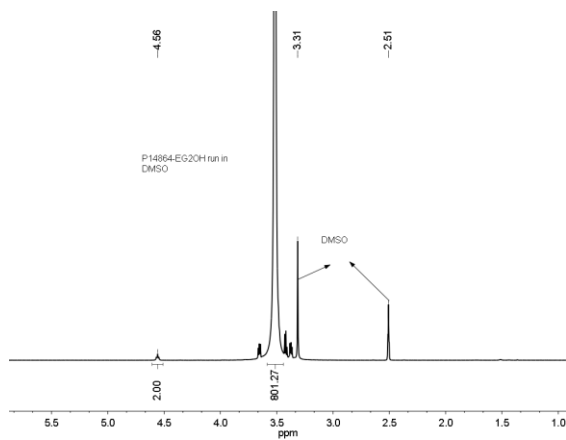
**Characterization:**

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.

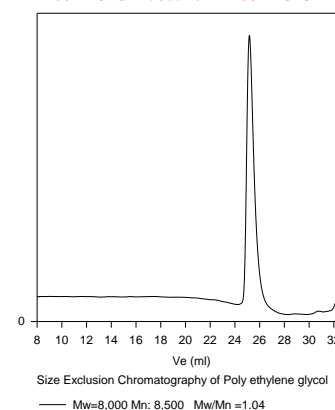
Functionality: Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy or by titration.

Solubility:

Polymer is soluble in water, methanol and ethanol, THF, CHCl₃. It is precipitated out from cold ethanol, isopropanol, hexane and ether.

HNMR:**SEC of Sample:**

P14864-EG2OH used for P14864-EG2SH

**References:**

S. K. Varshney, J.X. Zhang, Apply US patent 09/895,323, 2001. Heterofunctional Polyethylene glycol and Poly ethylene oxide, process for their Manufacture.