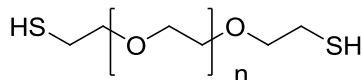


Sample Name:

Poly (ethylene glycol) dithiol or

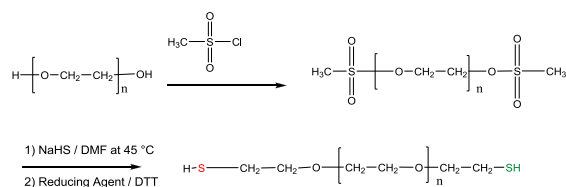
 α,ω -dithiol Terminated Poly(ethylene glycol)

Sample: P20223E-EG2SH

Structure:**Composition:**

Mn x 10 ³	PDI	SH functionality
9.8 (SEC)*	1.04	99%
10.5 (NMR)		

* - starting material

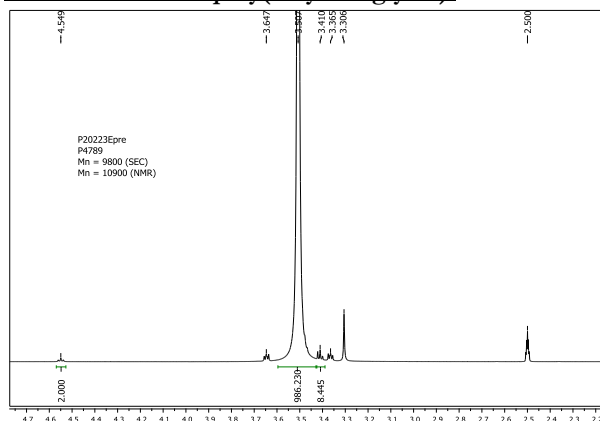
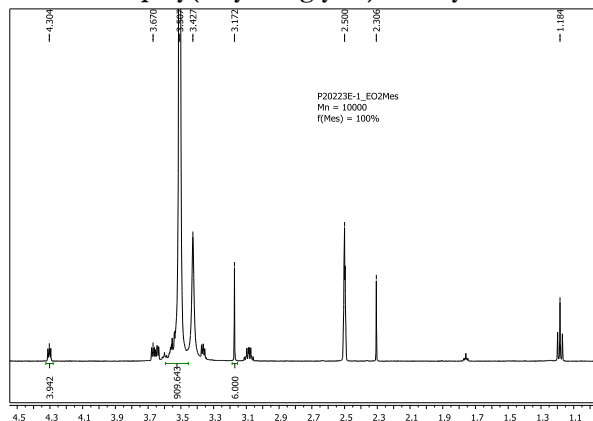
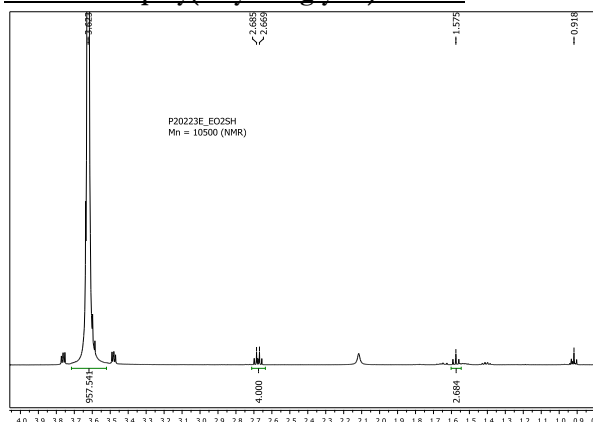
Synthetic Procedure:**Characterization:**

The molecular weight and polydispersity index were determined by ¹H NMR and size exclusion chromatography (SEC) using a Varian liquid chromatography equipped with UV and refractive index detector.

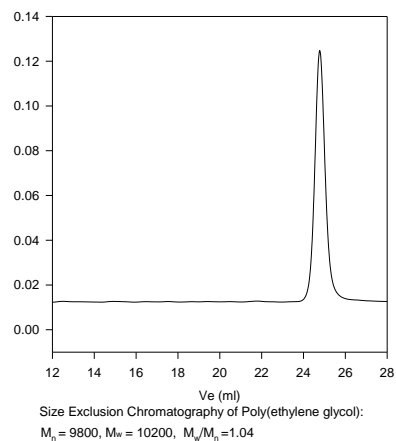
Functionality: Functionality of the polymer was determined by ¹H NMR.

Solubility:

Polymer is soluble in water, acetone, THF, CHCl₃.
It was precipitated from hexane / ether.

¹H NMR of initial poly(ethylene glycol):**¹H NMR of poly(ethylene glycol) dimesylate:****¹H NMR of poly(ethylene glycol) dithiol:****SEC of Sample:**

P20223G-EG2OH used to get EG2SH

**References:**

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