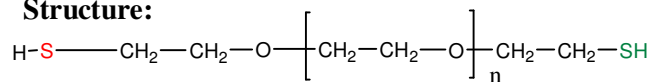


Sample Name: Poly (ethylene glycol) dithiol or α,ω -dithiol Terminated Poly(ethylene glycol)

Sample #: **P14916-EG2SH**

Structure:

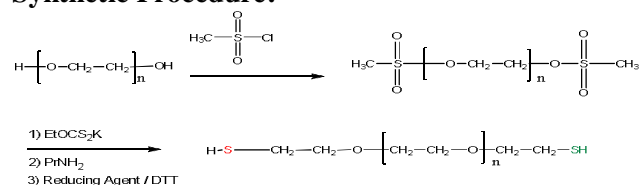


Composition:

Mn x 10 ³	PDI	SH functionality
3.4*	1.04	> 87%
S-S		>3%
S-Na		>3%
Other Free OH and mesylate, tributyl phosphine		>7%

*Mn is based (based on starting material)

Synthetic Procedure:



Characterization:

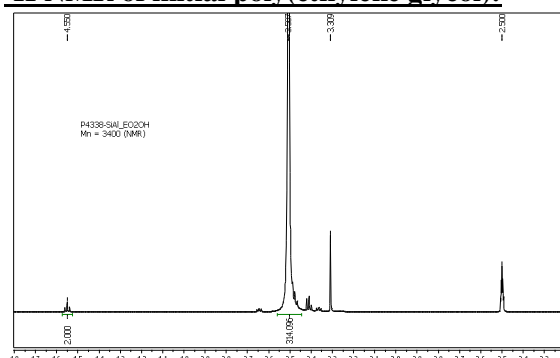
The molecular weight and polydispersity index were determined by ¹H NMR and size exclusion chromatography (SEC) respectively.

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

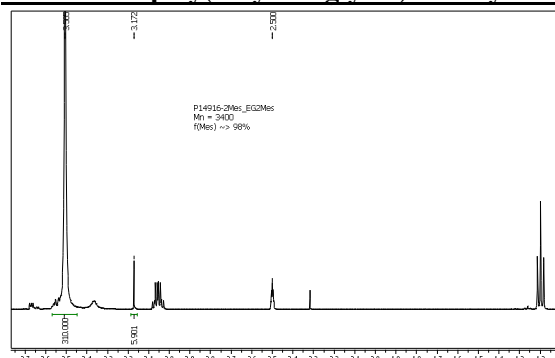
Solubility:

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:

