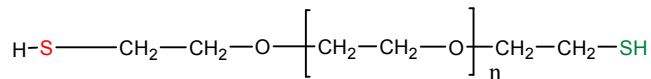


Sample Name:

Poly (ethylene glycol) dithiol or

 α - ω -dithiol Terminated Poly (ethylene glycol)

Sample: P20250-EG2SH

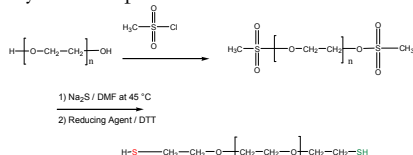
Structure:**Composition:**

Mn x 10 ³	PDI	SH functionality
1.9*	1.2	> 70%
S-S		<5%
S-Na		<5%
Other Free OH and mesylate, tributyl phosphine		<18%

*Mn is based (based on starting material)

Synthesis Procedure:

By anionic process and modifications of terminal OH to SH:



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

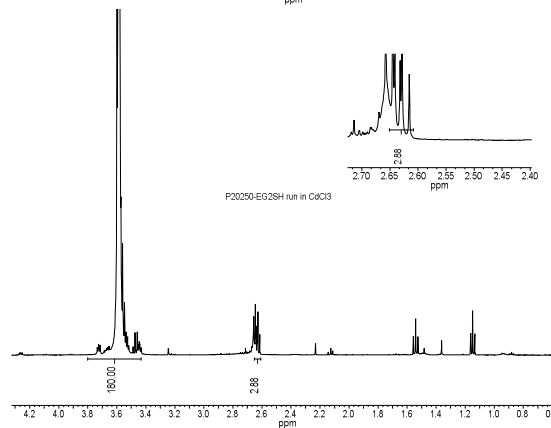
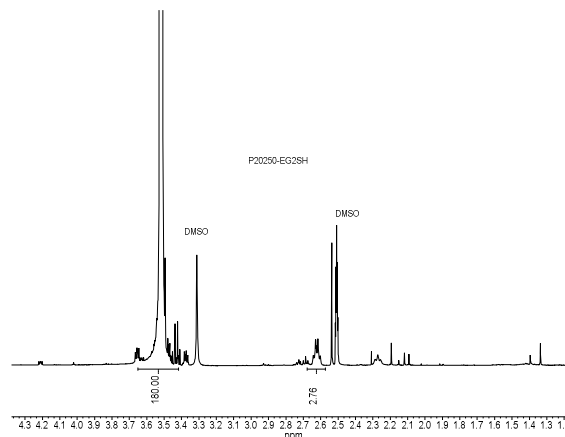
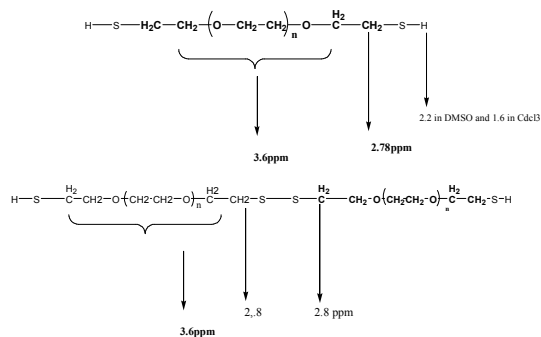
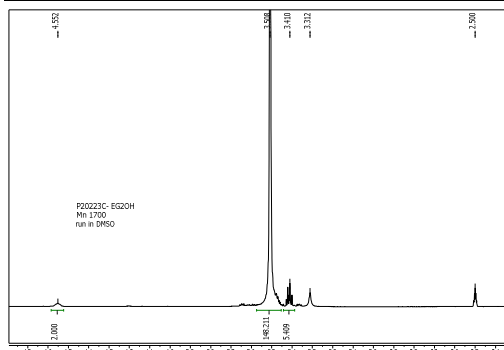
Characterization:

BY SEC and HNMR analysis.

Functionality: determined by H NMR analysis or FT-IR spectroscopy or by titration.

Solubility:

Polymer is soluble in water, methanol and ethanol, THF.

HNMR : PEG-2OH used for this modification:**SEC of Sample:**