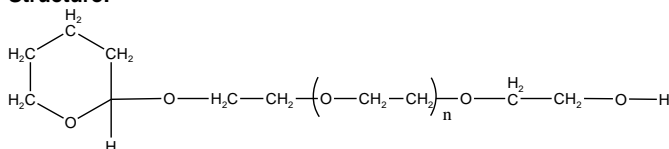


Sample Name:

**$\alpha$ -Tetrahydropyranyl- $\omega$ -Hydroxy Terminated Poly(ethylene glycol)**

Sample #: P9724- EGTHP

Structure:

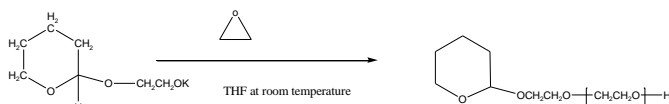


Composition:

Mn x 10 <sup>3</sup>	PDI
10.0	1.09

Synthesis Procedure:

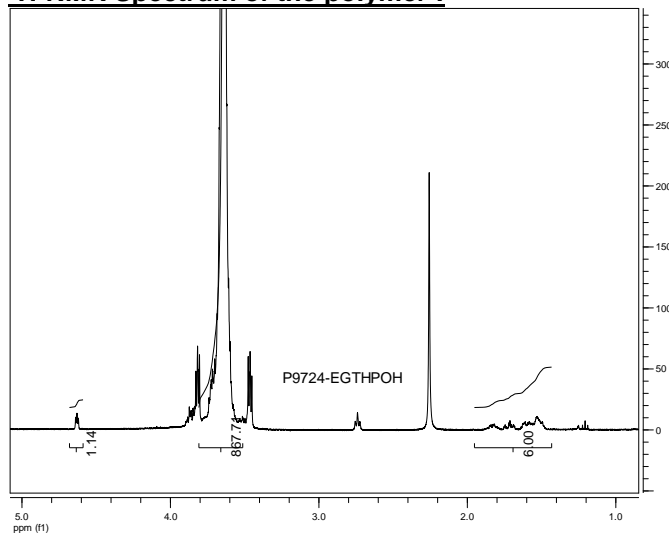
The scheme of the reaction is illustrated below:



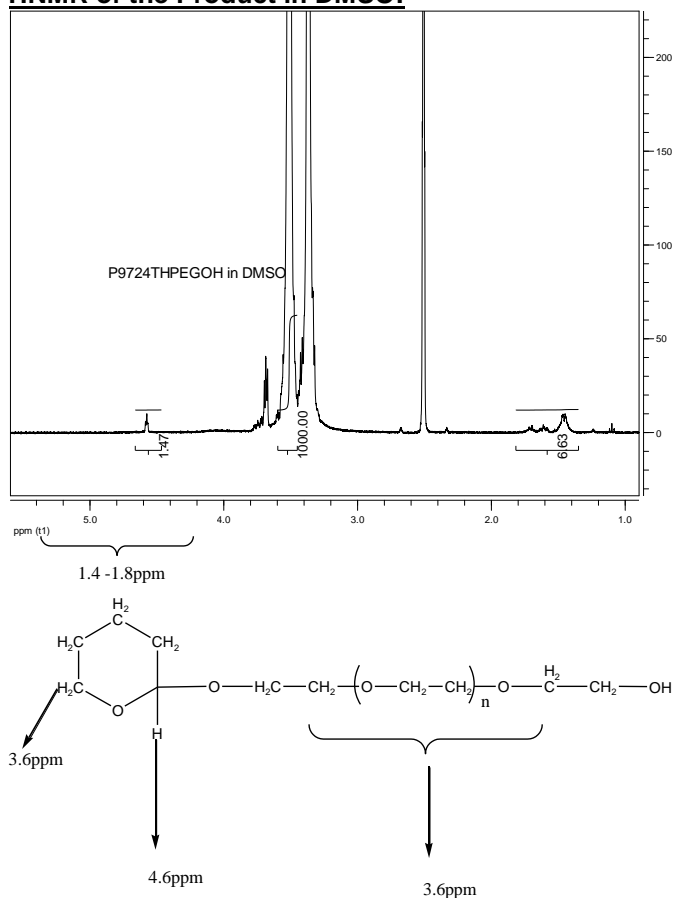
Characterization:

An aliquot of the poly(ethylene oxide) before addition of mesyl chloride was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The polymer obtained at each step and the final block copolymer composition was calculated from <sup>1</sup>H-NMR spectroscopy.

**<sup>1</sup>H-NMR Spectrum of the polymer :**

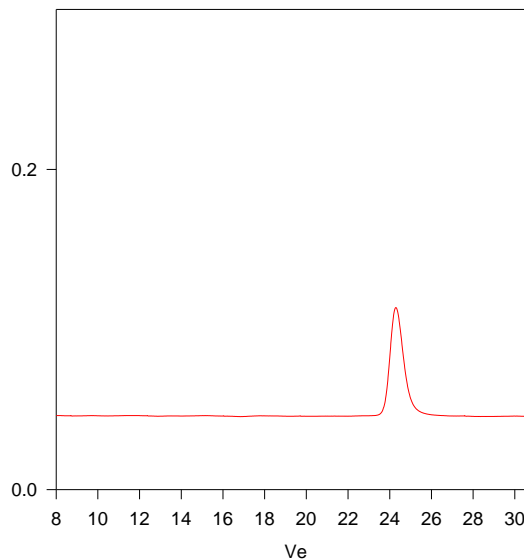


**HNMR of the Product in DMSO:**



**SEC of the polymer :**

**P9724-EGTHPOH**



Size Exclusion Chromatography of the Polymer:

M<sub>w</sub> = 10,000, M<sub>n</sub> = 10,900, M<sub>w</sub>/M<sub>n</sub> = 1.09