

SEC of the polymer :

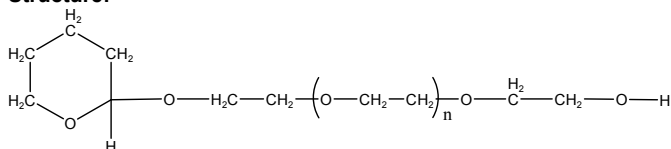
P10253-EGTHPOH

Sample Name:

α -Tetrahydropyranyl- ω -Hydroxy Terminated Poly(ethylene glycol)

Sample #: **P10253- EGTHPOH**

Structure:

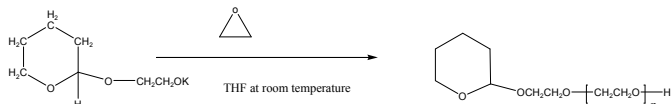


Composition:

$M_n \times 10^3$	PDI
4.0	1.09

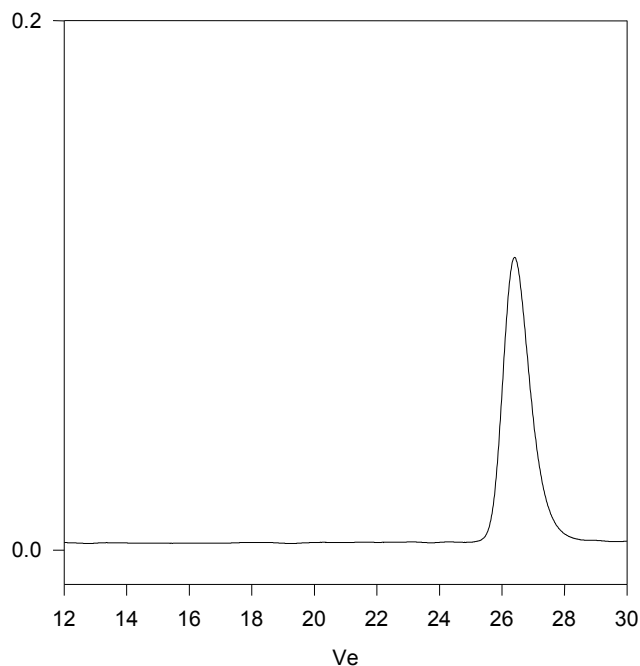
Synthesis Procedure:

The scheme of the reaction is illustrated below:



Characterization:

An aliquot of the poly(ethylene oxide) before addition of mestyl 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 $^1\text{H-NMR}$ spectroscopy .



Size Exclusion Chromatography of the Polymer:

$M_w = 4000$, $M_n = 4300$, $M_w/M_n = 1.09$

$^1\text{H NMR}$ of the Product

