

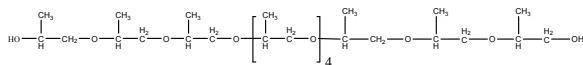
Sample Name:

α,ω - dihydroxy terminated-polypropylene glycol
Oligomer

decamerr

Sample #: **P9834-PO2OH**

Structure:

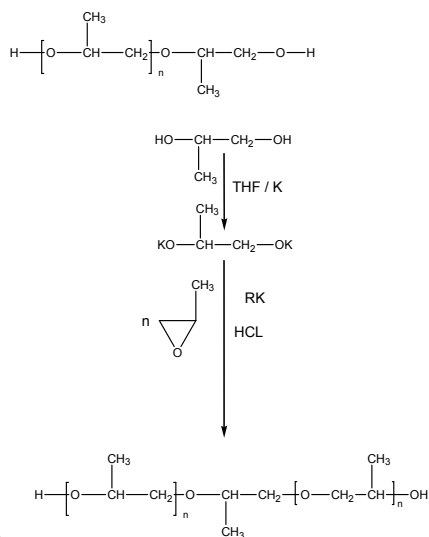


Composition:

Mn x 10 ³	PDI
1.5	1.09
Dp: 25	

Synthesis Procedure:

Polypropylene oxide is synthesized by anionic polymerization of propylene oxide as illustrated in the reaction scheme below



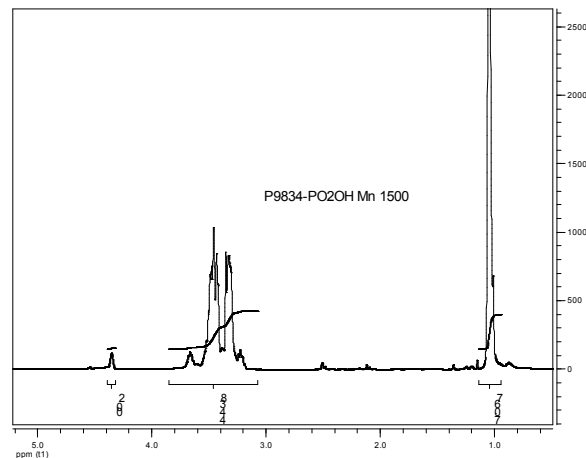
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography.

Purification:

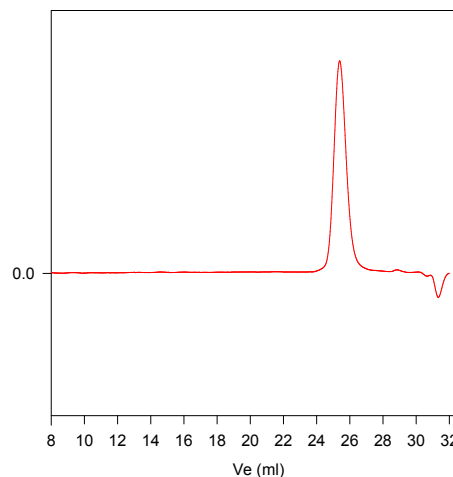
The reaction mixture is filtered to remove the precipitated KCl after which the solvent is removed under reduced pressure.

HNMR of the oligomer in DMSO:



SEC of Homopolymer:

P9834-PO2OH



Size Exclusion Chromatography of Dihydroxy Terminated Poly(propylene glycol)
M_n = 1500, M_w = 1600, PI = 1.09