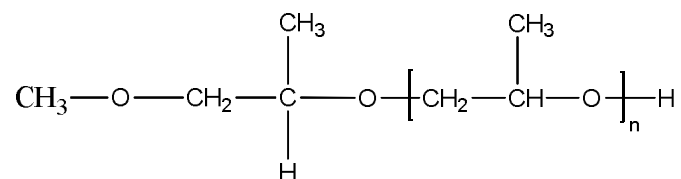


Sample Name:

**Tri propylene glycol methylether (trimer) or
Oligo(propylene glycol) methyl ether**

Sample # **P5798-POOCH3**

Structure:

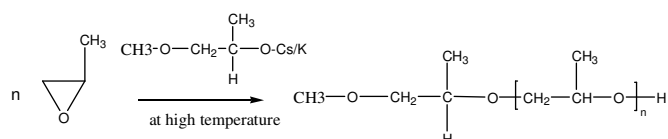


Composition:

$M_n \times 10^3$ (g/mol)	PDI (M_w/M_n)
0.206	1.05

Synthesis Procedure:

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



Characterization:

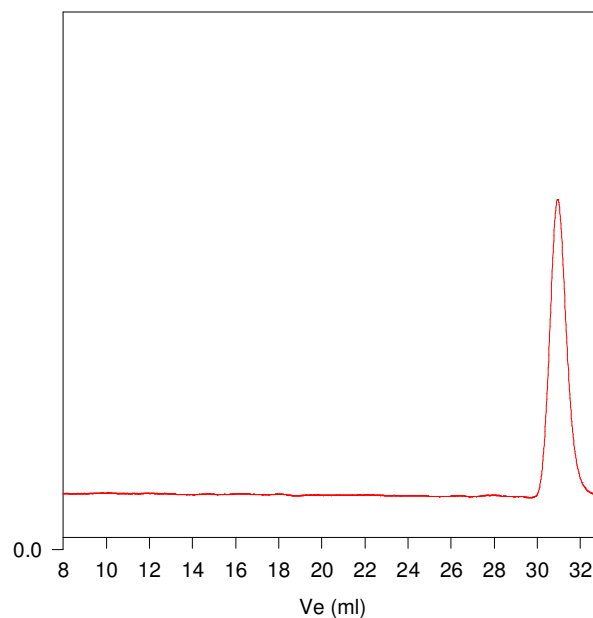
The molecular weight and polydispersity index (PDI) were obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Solubility:

The polymer is soluble in chloroform, methanol, ethanol, THF, toluene .

SEC elugram:

P5798-Trimer



Size Exclusion Chromatography of hexa propylene glycol methyl ether
 $M_n=206$, $M_w/M_n=1.05$