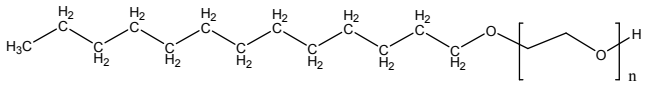
Sample Name:

α– tridecanol, ω-hydroxy Terminated Poly(ethylene glycol)

Sample #: P10044-EGtridecanolOH

Structure:



Composition:

Mn x 10^3	PDI
1.2	1. 10

Synthesis Procedure:

α– tridecaol, ω-OH terminated poly(ethylene glycol) was synthesized by anionic living polymerization of ethylene oxide.

Characterization:

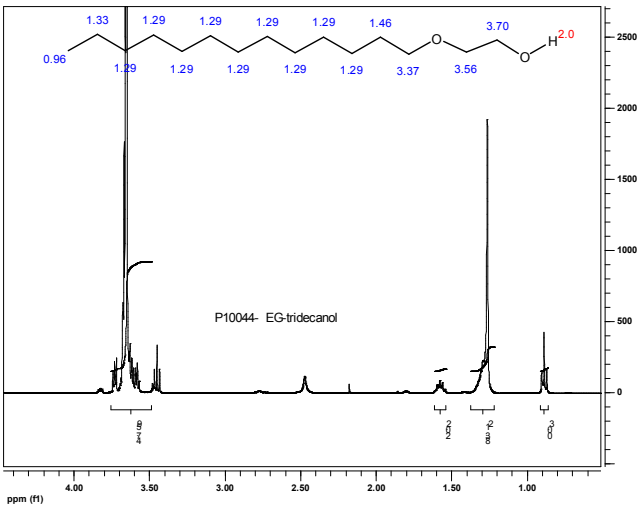
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Functionality: Functionality of the polymer was determined by H NMR analysis.

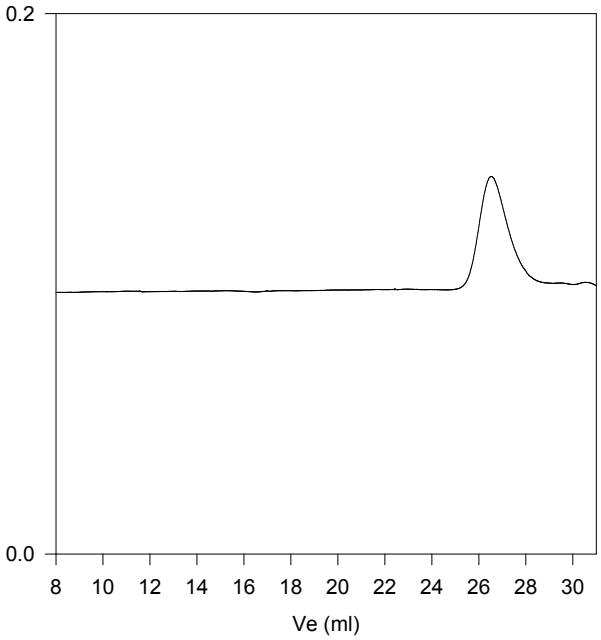
Solubility:

Polymer is soluble in chloroform and THF; it will be also soluble in water, methanol and ethanol. It is precipitated out from cold hexane and ether(-20°C).

H NMR of the product:



P10044-EGTridecanol-OH



Size exclusion chromatography:

Tridecanol terminated Poly(ethylene glycol)

M_n=1200, M_w=1300, PI=1.09