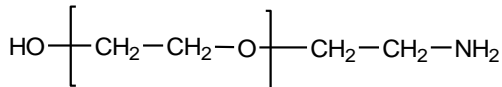


Sample Name:

**$\alpha$ -amino,  $\omega$ -hydroxyl Terminated Poly(ethylene glycol)**

Sample: **P40571A-EGNH2OH**

**Structure:**



**Composition:**

$M_n \times 10^3$	PDI	NH2 functionality
3.5	1.15	> 99%

**Synthesis Procedure:**

$\alpha$ -Amino  $\omega$ -hydroxyl terminated poly(ethylene glycol) was synthesized by proprietary method.

<sup>1</sup>Please call us if you would like to know more.

**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.

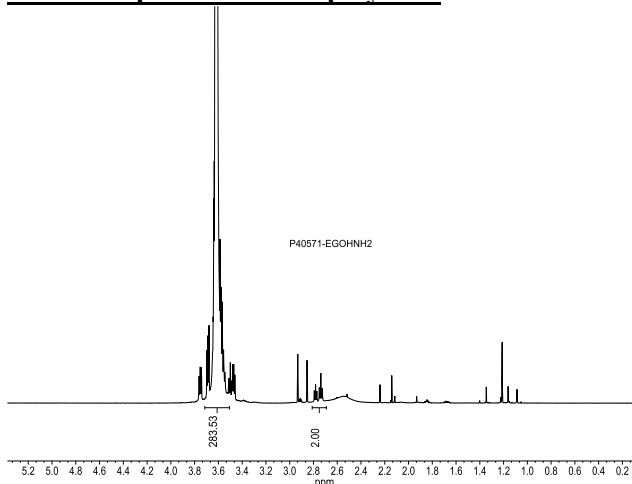
**Functionality:**

Functionality of the polymer was determined by H NMR analysis or FT-IR spectroscopy or by titration.

**Solubility:**

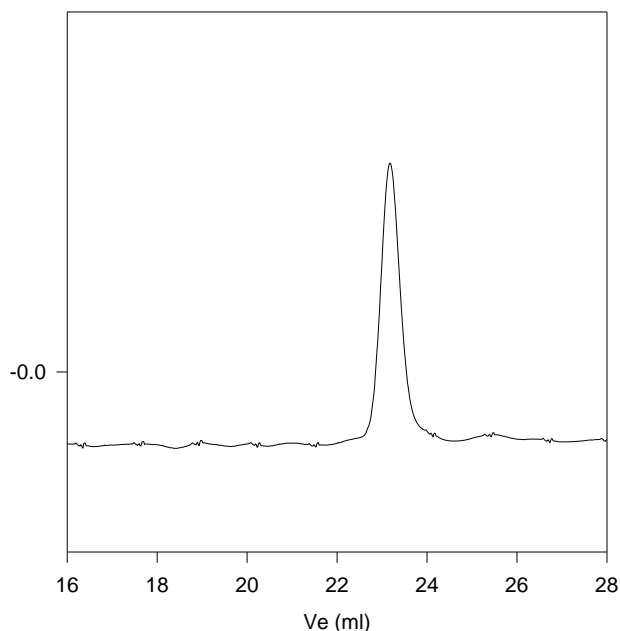
Polymer is soluble in water, methanol and ethanol, THF,  $\text{CHCl}_3$ . It is precipitated out from cold ethanol, isopropanol, hexane and ether.

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



**SEC elugram of the Sample:**

**P40571A-EGNH2OH**



Size exclusion chromatograph of  
 $\alpha$ , OH  $\omega$  amino terminated poly(ethylene glycol):

$M_n=3,500$ ,  $M_w=4,100$ ,  $PI=1.145$

**References:**

**S. K. Varshney, J.X. Zhang, Apply US patent 09/895,323, 2001. Heterofunctional Polyethylene glycol and Poly ethylene oxide, process for their Manufacture.**