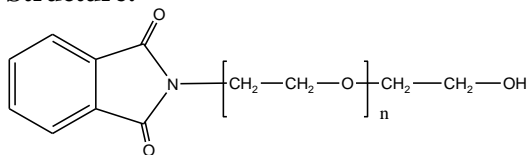


Sample Name:

**$\alpha$ - Phthalimide end functionalized Poly(ethylene glycol)**

Sample #: **P40585-EG-PhthIm**

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
3.5	1.10
Phthalimide End group functionality	>99%

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process.

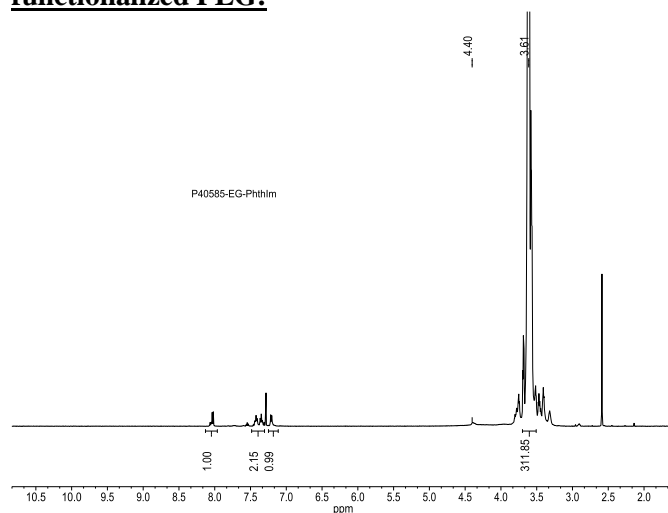
**Characterization:**

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The end functionality was calculated from <sup>1</sup>H-NMR spectroscopy.

**Solubility:**

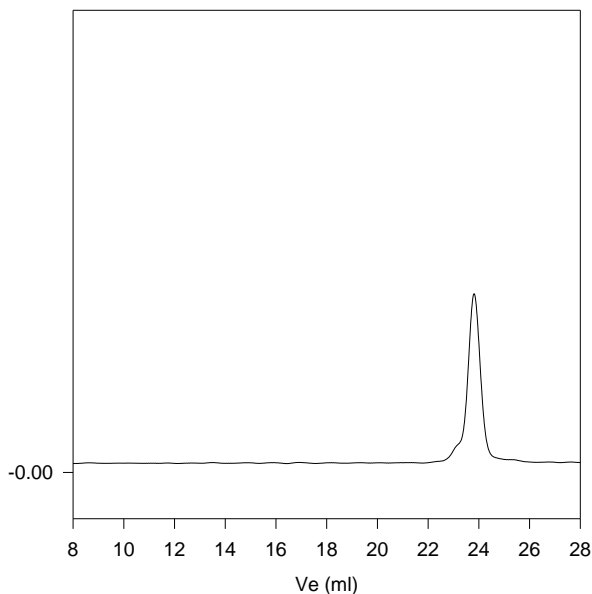
Functionalized poly(ethylene oxide) is soluble in CHCl<sub>3</sub>, THF, and precipitated out from cold diethyl ether.

**<sup>1</sup>HNMR spectrum of  $\alpha$ -Phthalamide end functionalized PEG:**



**SEC elugram of the polymer:**

**P40585-EG-PhthIm**



Size Exclusion Chromatography of Polyethylene glycol methyl ether  
M<sub>n</sub>=3,500, M<sub>w</sub>=3,800, PI=1.10