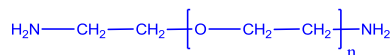


Sample Name:

α, ω -Diamino Terminated Poly(ethylene glycol)

Sample #: **P6496-EG2NH2**

Structure:



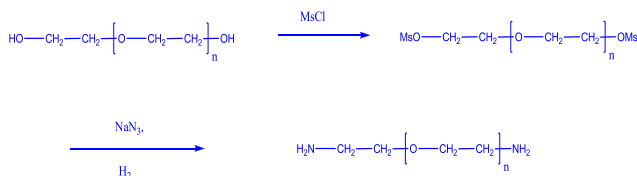
Composition:

$M_n \times 10^3$	PDI
1.15	1.10

Functionality: 1.82 (91%)

Synthesis Procedure:

α, ω -diamino terminated poly(ethylene glycol) was prepared by living anionic polymerization of ethylene oxide using the potassium salt of ethylene glycol. The hydroxyl terminal groups of the polymer chains were converted to NH_2 by chemical modification reactions.



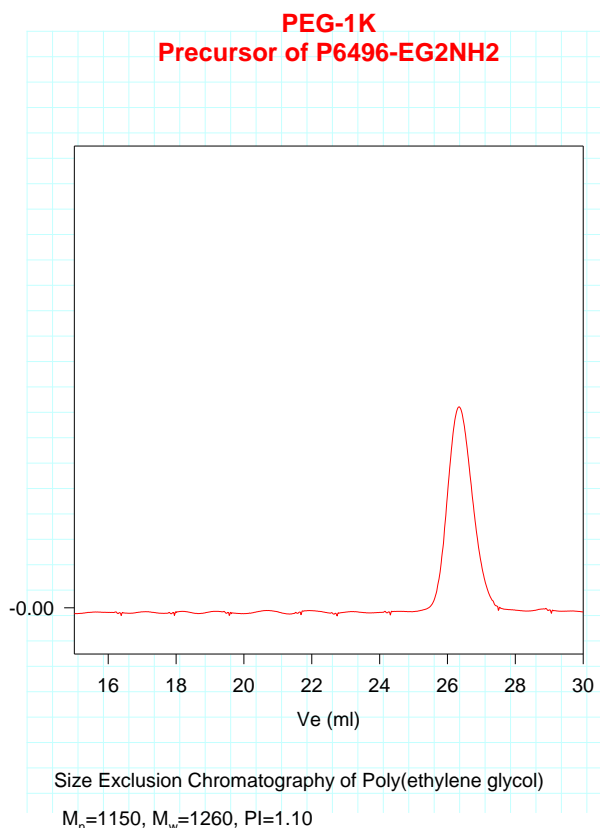
Characterization:

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. Polymer functionality was determined by titration with HClO_4 using crystal violet as the indicator.

Solubility:

The functionalized poly(ethylene glycol) is soluble in chloroform, dichloromethane, THF, DMF and ethanol. It is precipitated into hexanes and cold ether.

SEC spectrum of polymer:



HNMR of the Polymer:

