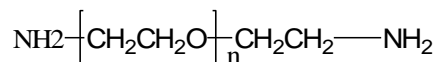


Sample Name:

α ω - diamino end functionalized Poly(ethylene glycol)

Sample #: PEG-2NH₂

Structure:



Composition:

Mn x 10 ³	PDI
2.9	1.07

Synthesis Procedure:

Amino end functionalized Poly (ethylene oxide) is prepared by living anionic polymerization of ethylene oxide. And the modification of terminal end groups to amino end group

Characterization:

An aliquot of the poly (ethylene oxide) before addition of mestyl chloride (finally these groups were converted to NH₂ by reacting with Na N₃ and than hydrogenation) was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The functionality of the end group was checked by titration using HClO₄ /crystal violet in acetic acid.

Solubility:

NH₂ end functionalized Poly (ethylene oxide) is soluble in CHCl₃, THF and precipitated out from cold ethanol, diethyl ether.

SEC analysis of the polymer:

