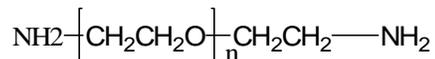


Sample Name:

$\alpha$   $\omega$ - diamino end functionalized Poly(ethylene glycol)

Sample #: PEG-2NH2

**Structure:**



**Composition:**

| $M_n \times 10^3$ | 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 NH<sub>2</sub> by reacting with Na N<sub>3</sub> 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 HClO<sub>4</sub> /crystal violet in acetic acid.

**Solubility:**

NH<sub>2</sub> end functionalized Poly (ethylene oxide) is soluble in CHCl<sub>3</sub>, THF and precipitated out from cold ethanol, diethyl ether.

**SEC analysis of the polymer:**

