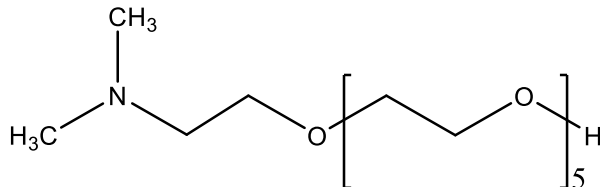


### **Poly(ethylene oxide), a-dimethyl amino-terminated**

### Structure:

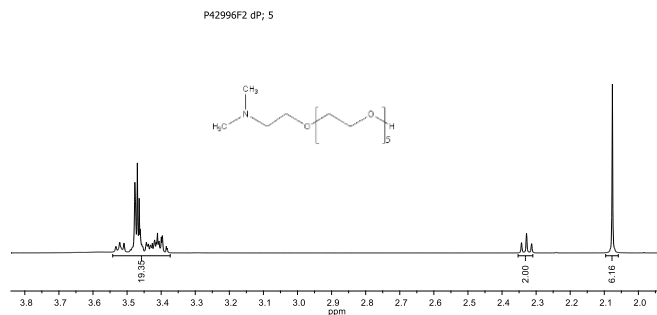


$M_n \times 10^3$ (g/mol)	$M_w/M_n$	Dp
0.2	1.04	<b>5</b>

Ethylene oxide was polymerized by living anionic polymerization using potassium salt of N,N dimethyl amino ethanol.

Purity and polymer structure was confirmed by  $^1\text{H}$  NMR analysis done on 500 MHz Bruker spectrometer using  $\text{CDCl}_3$  and/or  $\text{DMSO-d}_6$  solvents.

**<sup>1</sup>H-NMR spectrum of polymer in CDCl<sub>3</sub>:**



Note: End hydroxy group cannot be seen by NMR in chloroform but can be observed in dimethylsulfoxide.

<b>Workspace Details</b>	
Workspace name	Calibration 2020-05-25
Location	C:\ProgramData\Agilent Technologies\GPC\Workspaces\Calibration 2020-05-25\
Comments	
Created by	agilent2 at 10:50:19 AM on May-25-20
<b>Chromatogram Plot</b>	

