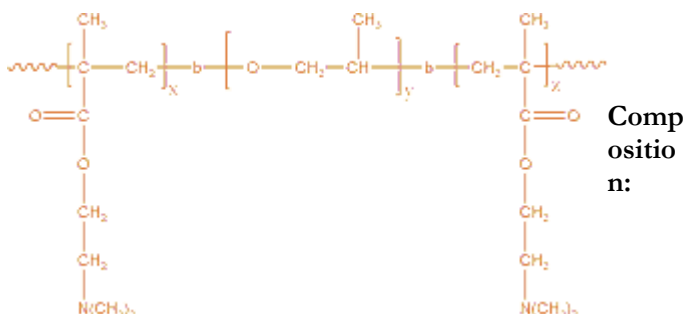


### Sample Name:

**Poly(N,N-dimethylaminoethyl methacrylate-b-propylene oxide-b-N,N-dimethylaminoethyl methacrylate)**

Sample #: P6658-DMAEMAPODMAEMA

### Structure:



Mn x 10 <sup>3</sup>	PDI
3.2 -b- 3.0 -b- 3.2	1.5

### Synthesis Procedure:

Polymer is obtained by ATRP polymerization by initiating N,N-dimethyl aminoethyl methacrylate monomer with the bromo terminated polypropylene glycol.

### Characterization:

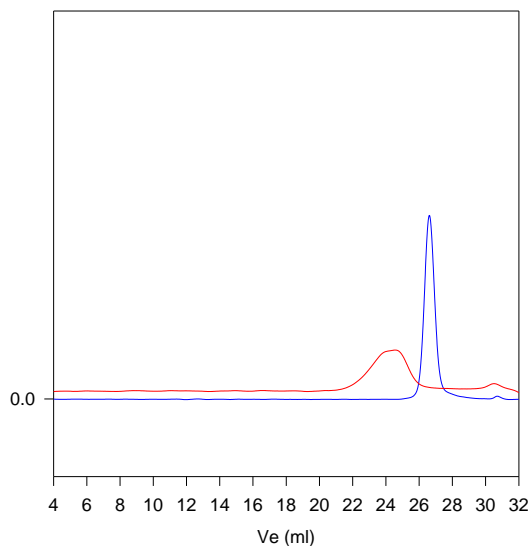
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

### Solubility:

The tri-block polymer is soluble in THF, and CHCl<sub>3</sub>.

### SEC of Sample:

**P6658-DMAEMAPODMAEMA**



Size exclusion chromatography of poly(dimethylaminoethyl methacrylate -b-propylene oxide-dimethylaminoethyl methacrylate):

- Polypropyleneglycol:  $M_n=3000$ ,  $M_w=3200$ ,  $PI=1.05$
- Block Copolymer DMAEMA-b-PO-b-DMAEMA  
Mn: 3200-b-3000-b-3200,  $PI=1.5$   
(Composition from H NMR)

### HNMR of the Polymer:

