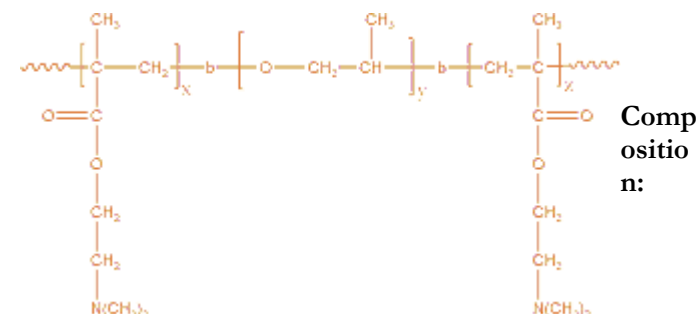


### Sample Name:

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

Sample #: P6659-DMAEMAPODMAEMA

### Structure:



Mn x 10 <sup>3</sup>	PDI
2.4-b-3.0-b-2.4	1.35

### Synthesis Procedure:.

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

### Characterization:

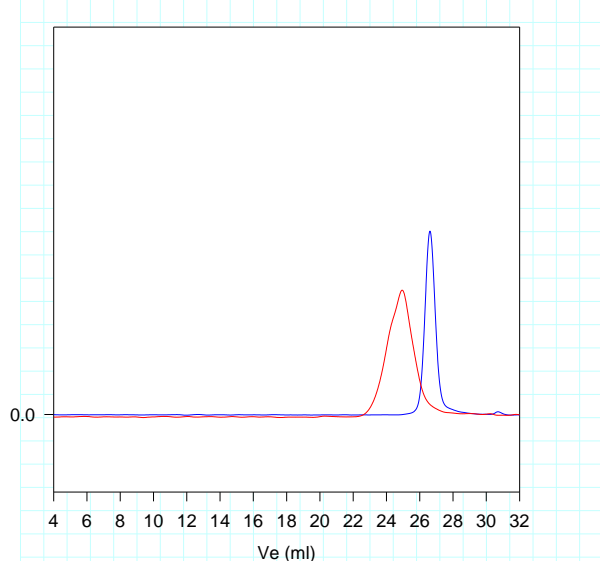
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

### Solubility:

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

### SEC of Sample:

**P6659-DMAEMAPODMAEMA**



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

- Polypropyleneglycol: M<sub>n</sub>=3000, M<sub>w</sub>=3200, PI=1.05
- Block Copolymer DMAEMA-b-PO-b-DMAEMA  
Mn: 2400-b-3000-b-2400, PI=1.35  
(Composition from H NMR)

### HNMR of the Polymer:

