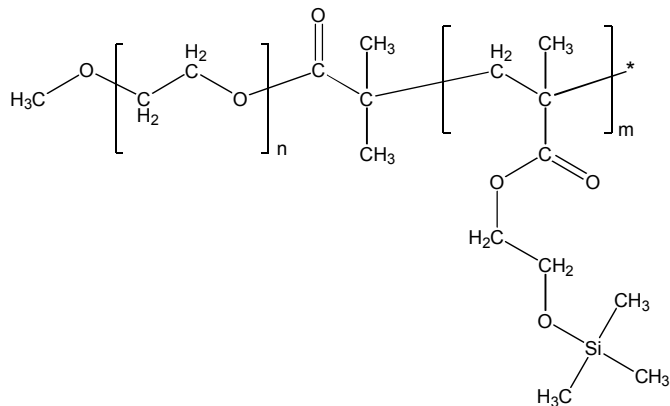


Sample Name:

Poly(ethylene oxide *-b-* trimethyl siloxy 2-ethyl methacrylate)

Sample # **P19607-EOHEMATMS**

Structure:



Composition:

Mn x 10 ³ EO- <i>b</i> -HEMATMS	Mw/Mn
2.0- <i>b</i> -4.5	1.19

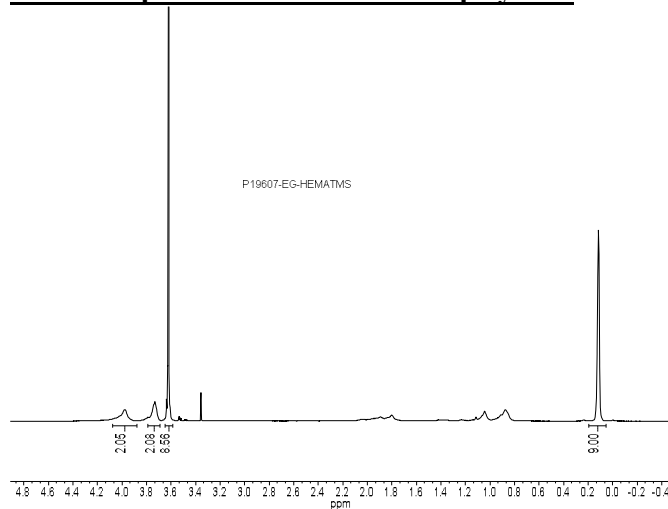
Synthesis procedure:

The EO-HEMATMS diblock copolymer was synthesized by controlled radical process.

Characterization:

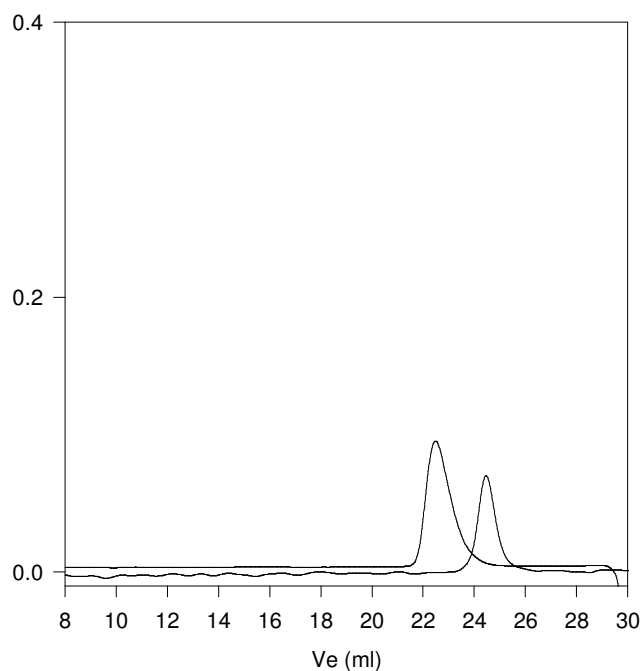
The molecular structure of the polymer was confirmed by ¹H NMR. Molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC).

¹H-NMR spectrum of the diblock copolymer:



SEC of PEO (1st block) and diblock copolymer:

P19607-EOHEMATMS



Size exclusion chromatography of poly(EO-*b*-MMA)

— PEO, M_n=2000, M_w=2160, M_w/M_n=1.08

— Poly(ethylene oxide-*b*-HEMATMS)

Mn: PEO(2000)-*b*-HEMATMS(4500) M_w/M_n=1.19