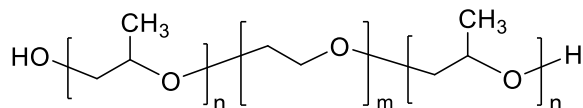


Product Name:

Poly(propylene oxide)-*b*-poly(ethylene oxide)-*b*-poly(propylene oxide), triblock copolymer

Product ID: **P8732-POEOPPO**

Structure:



Composition:

$M_n \times 10^3$ (g/mol) [PPO- <i>b</i> -PEO- <i>b</i> -PPO]	M_w/M_n
0.5- <i>b</i> -1.0- <i>b</i> -0.5	1.09

Degree of polymerization Dp: PPO(9)- <i>b</i> -PEO(23)- <i>b</i> -PPO(9)

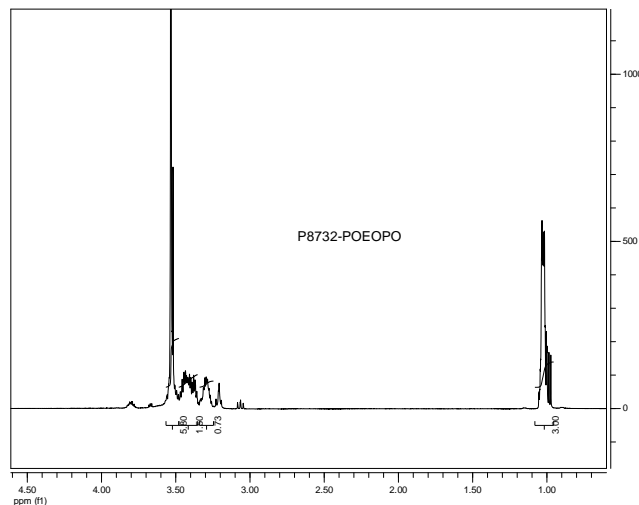
Synthesis Procedure:

Poly(propylene oxide-*block*-ethylene oxide-*block*-propylene oxide) was prepared by living anionic polymerization method by adding propylene oxide to dipotassium salt of poly(ethylene glycol) in presence of crown ether.

Characterization:

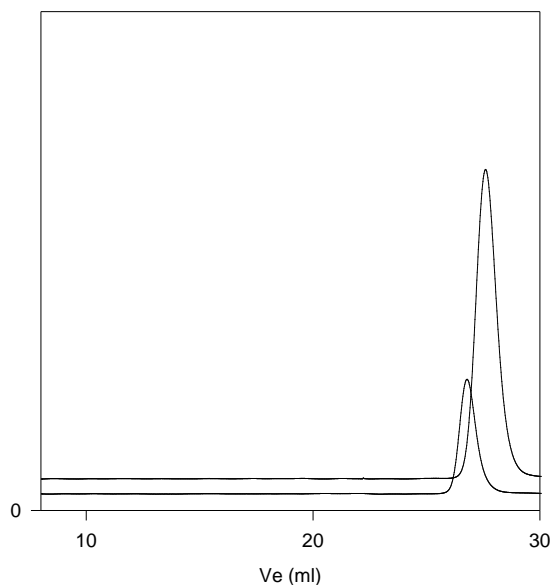
The ratio between blocks was calculated by proton NMR spectroscopy. The molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC).

¹H NMR of the product:



SEC chromatogram of the product:

P8732-POEOPPO



Size exclusion chromatography of:

(propylene oxide-*b*-ethylene oxide-*b*-propylene oxide) triblock copolymer:

— Poly(ethyleneglycol) center block: $M_n=1000$, $M_w=1100$, $M_w/M_n=1.10$

— Block Copolymer PO(500)-*b*-EO(1000)-*b*-PO(500), $M_w/M_n=1.09$