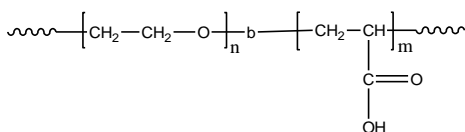


Sample Name: Poly (ethylene oxide-b-acrylic acid)

Sample #: P41492-EOAA

Structure:

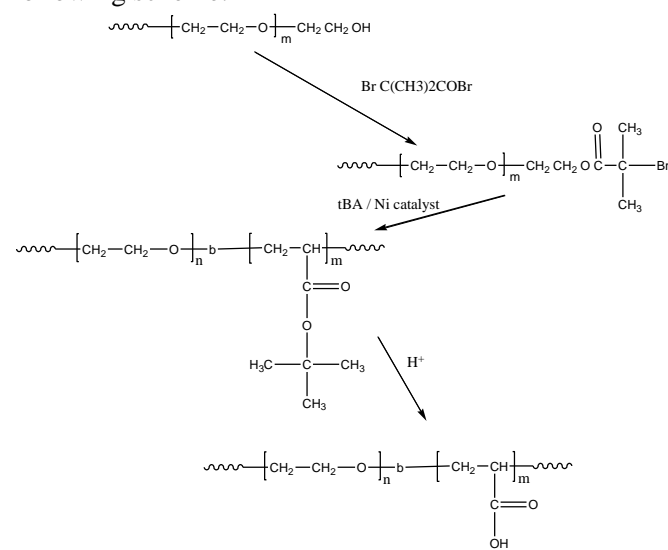


Composition:

Mn x 10 ³ PEO-b-PAA	PDI
14.0-b-68.0	1.4

Synthesis Procedure:

The polymer was prepared as presented on the following scheme:



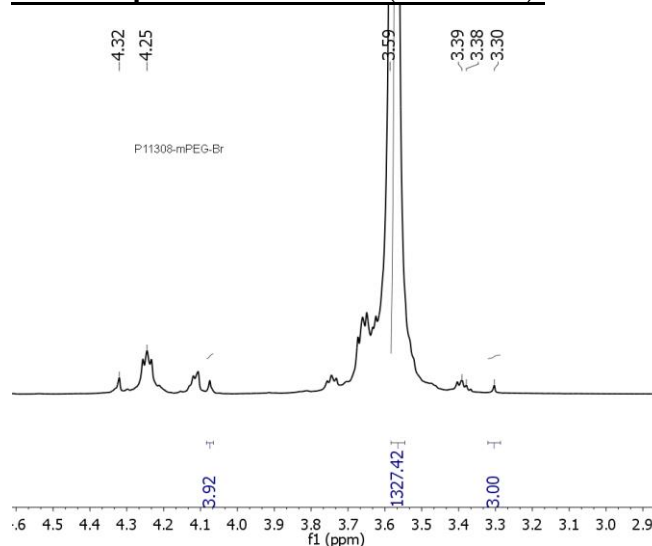
Characterization:

The final block copolymer composition was calculated from ¹H-NMR spectroscopy of poly (ethylene oxide -b- t-butyl acrylate) by comparing the peak area of the t-butyl acrylate protons at 1.43 ppm with the peak area of the ethylene oxide protons at 3.6 ppm, then transferred to the EOAA form accordingly. Copolymer PDI is determined by SEC of poly (ethylene oxide -b- t-butyl acrylate).

Solubility:

The polymer is soluble in methanol, water, THF and precipitated out from cold hexane or ether.

¹HNMR spectrum of PEG-Br (first block):



¹HNMR spectrum of EOAA sample runs in DMSO:

