

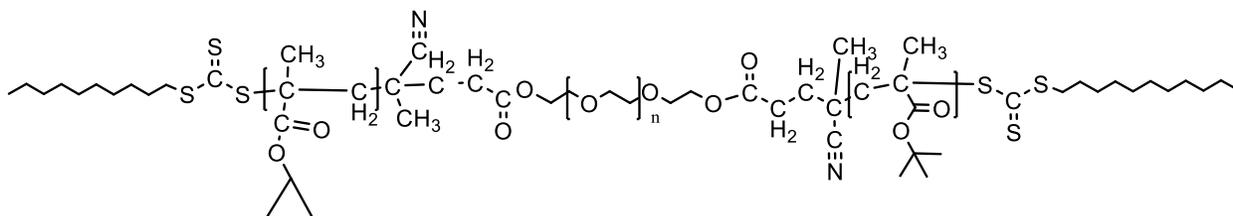
Product Profile

Identification

Product Name: Poly(Methacrylic acid-b-Ethylene oxide-b-Methacrylic acid)

Product Lot Number: P44567-MAAEOMAA

Product Chemical Architecture:



Composition:

| MAA-EO-MAA | Mw/Mn (PDI) |
|--|-------------|
| 2.0-b-4.0-b-2.0 | 1.18 |
| Dp of each block: MAA ₂₃ -EO ₉₁ -MAA ₂₃ from ¹ H NMR | |

Method of Synthesis

The polymer is synthesized by RAFT polymerization process.

Solubility in different solvents

| | | | |
|-------------------|---|-------------------|---|
| THF | √ | DMF | √ |
| CHCl ₃ | X | CHCl ₃ | X |
| Water | X | Water-pH 7-9 | √ |

Purification

The Polymer has been purified to remove unreacted PEG by stirring in Hot Water.

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC- PEG, PEG- α - ω -RAFT:

