

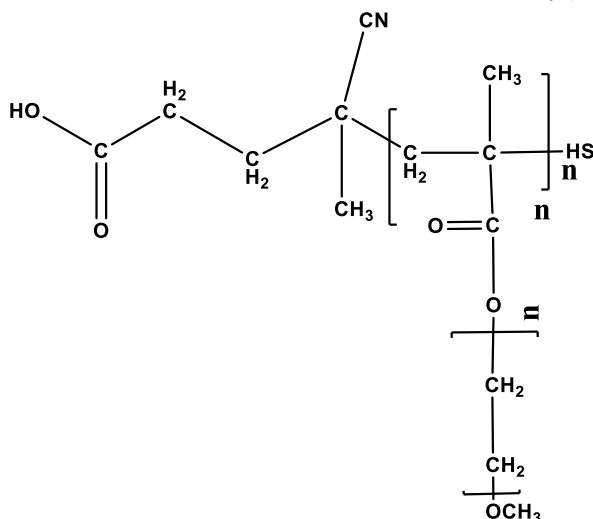
Product Profile

Identification

Product Name: Poly(oligo(ethylene glycol) methyl ether methacrylate) 300

Product Lot Number: P80577A1-OEGMA-SH

Product Chemical Architecture: POEGMA, Poly(oligo(ethylene glycol) methacrylate)

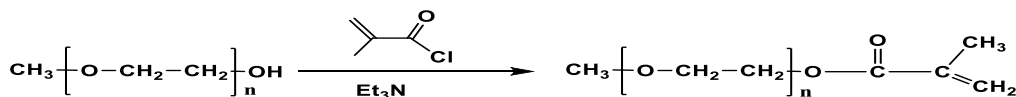


Composition:

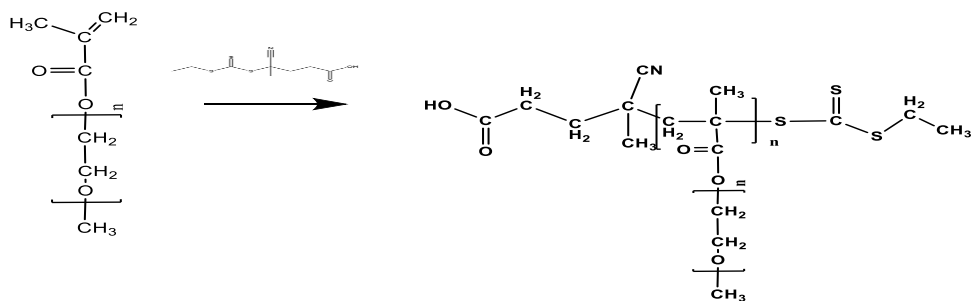
Mn x 10 ³	Mw/Mn (PDI)	Microstructure of Polymer by ¹ H NMR
81.0	1.10	Hetrotactic rich

Method of Synthesis: By RAFT process

Synthesis of Monomer



Polymerization process: Macromonomer of POEGMA

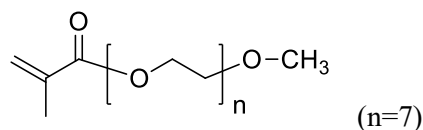


Solubility:

Solubility in different solvents for the polymer (because of high MW it is partial soluble or 1mg per 1ml Solubility)

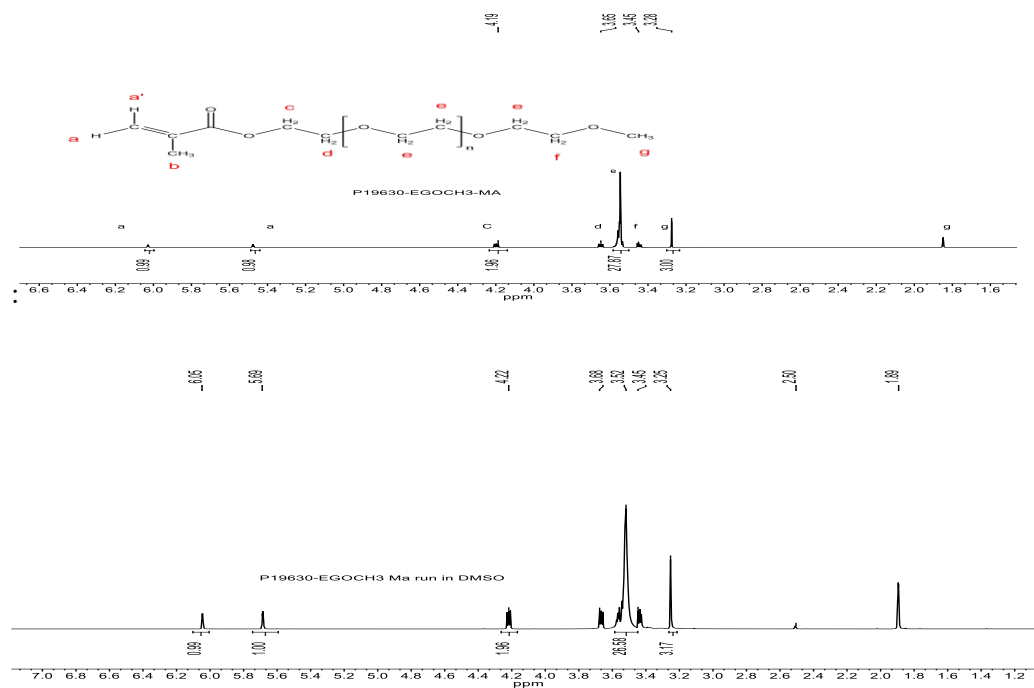
THF Partial	√	H2O-Partial (H MW)	√
CHCl3	√	DMF	√
Toluene-Hot	×	Dioxane	√

Following monomer was used:
 oligo(ethylene glycol) methyl ether methacrylate
 Lot#P19630-EGOCH3MA



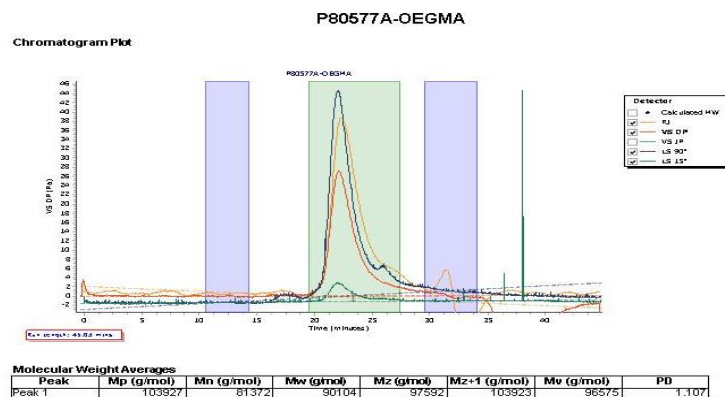
Molecular weight (g/mol):	$M_n = 300$
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¹H NMR spectrum of the oligomer



Validation of Architecture:

A. Gel Permeation Chromatography (GPC), SEC- Profile of Polymer



NMR (HNMR) of polymer:

