

Product Profile

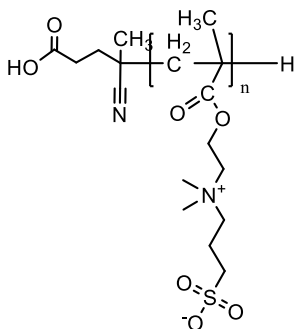
Identification

Product Name: Poly(sulfopropylbetaine(SPB)methacrylate)

Synonym: Poly [2-(Methacryloyloxy)ethyl]dimethyl-(3-sulfopropyl)ammonium hydroxide

Product Lot Number: P44928-DMAPS

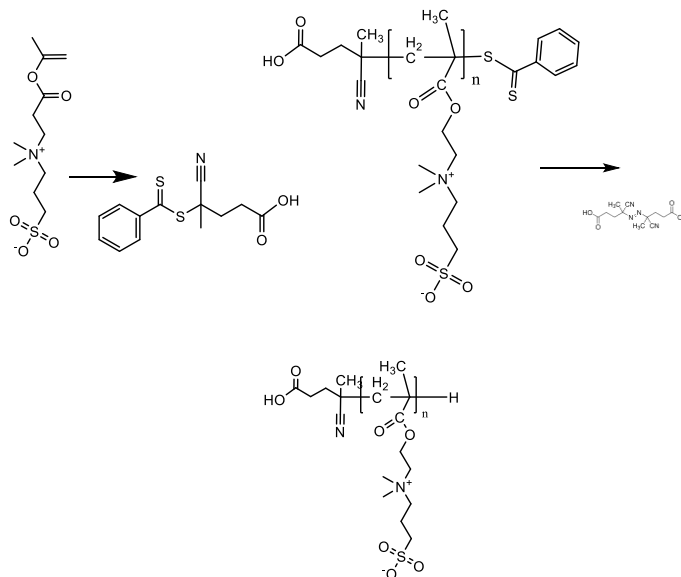
Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)	Dp of Homopolymer
4.0	1.25	15

Method of Synthesis: By RAFT Process



Solubility in different solvents

THF	X	DMSO	√
CHCl ₃	X	DMF	√
Water	√		

Purification of Polymer: By Soxhlet extraction of unreacted RAFT

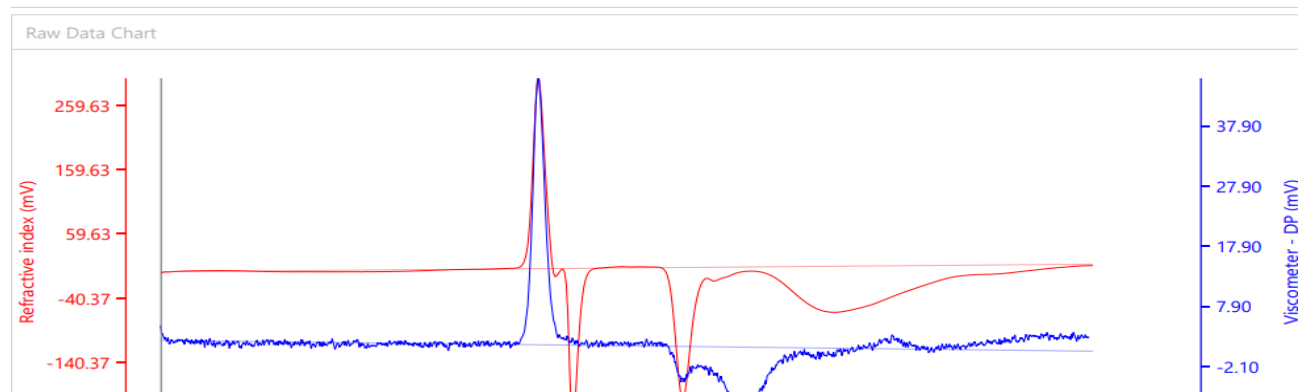
Validation of Architecture:

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

Sample of PDMAPS is eluted in aqueous system using buffer based on borate (0.025M) with disodium tetraborate, (0.025M) NaCl and 0.002M sodium phosphate dibasic, Ph=9.0 aqueous solution. Our columns are from Viscotek at flow rate 1 ml-1

Polymer Source

Malvern Panalytical



B. NMR (HNMR) of polymer: run in D2O

