



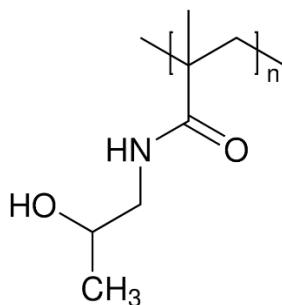
Product Profile

Identification

Product Name: Poly(N-(2-hydroxypropyl)methacrylamide)

Product Lot Number: P45711C-HPMAMD

Chemical Architecture:



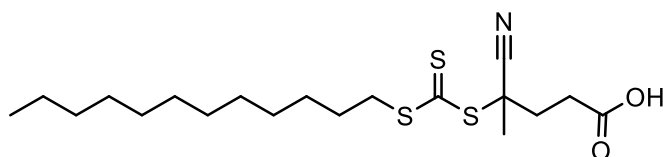
Composition:

Mn (g/mole)	30,000
Mw (g/mole)	33,000
Mw/Mn	1.08
dn/dc (mL/g) in water ph7	0.170

Method of Synthesis

Polymer synthesized by RAFT polymerization of using 4,4'-azo(4-cyanopentanoic acid) as initiator and trithiocarbonate as chain transfer agent in water.

RAFT-TSC-14



Solubility in different solvents:

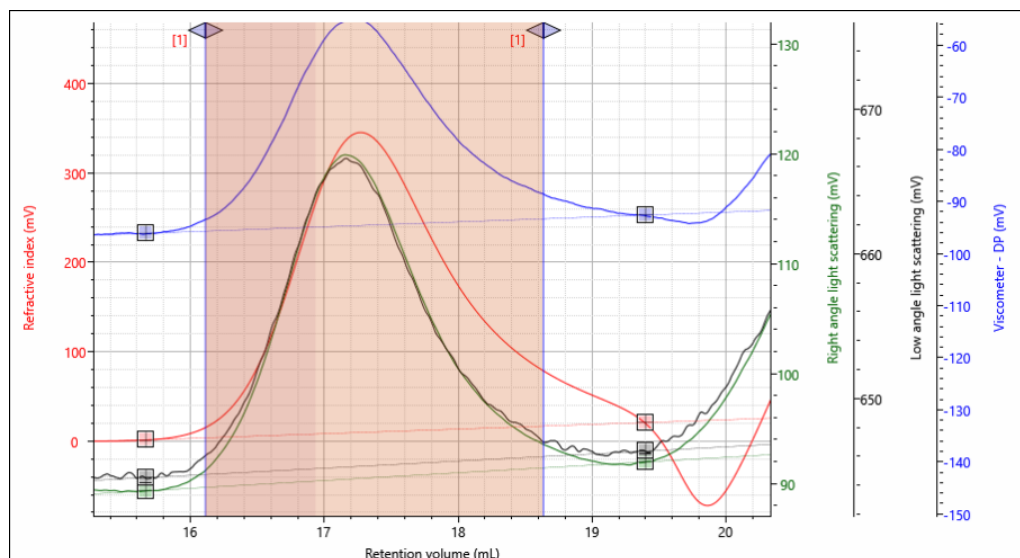
Water	√
THF	
Alcohol	



Validation of Architecture

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

Polyacrylamide and analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI) using water containing 0.1M NaNO₃ and 0.01M NaH₂PO₄ and 4 vol% acetonitrile as eluent.



Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mw/Mn
45711A, Injection 1, Peak 1	17.27	30,397	32,818	34,215	1.08

B. HNMR of the polymer run in D₂O

