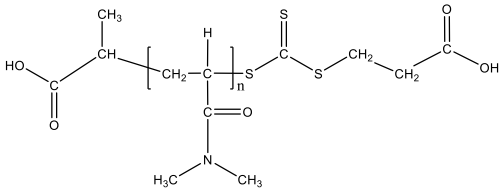
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P41426-R-DMA

Product Chemical Architecture:

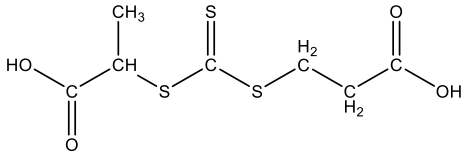


Composition:

Mn (g/mole)	**109,000**
MW (g/mole)	**157,000**
MW/Mn	**1.44**
dn/dc (mL/g)	**0.165 in water**

Method of Synthesis

The polymer is prepared by RAFT polymerization process using Following RAFT moiety:



Solubility in different solvents

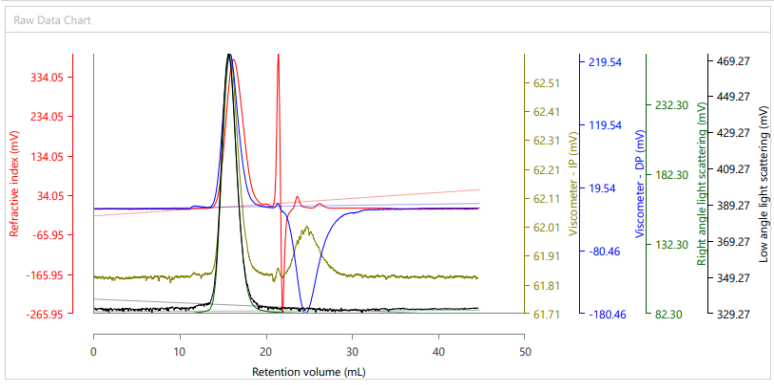
THF	√	DMF	√
Alcohol	√	CHCl3	√
Toluene	X	DMSO	√

Validation of Architecture

A. <u>Gel Permeation Chromatography (GPC), SEC- Profile:</u>

Polymer Source

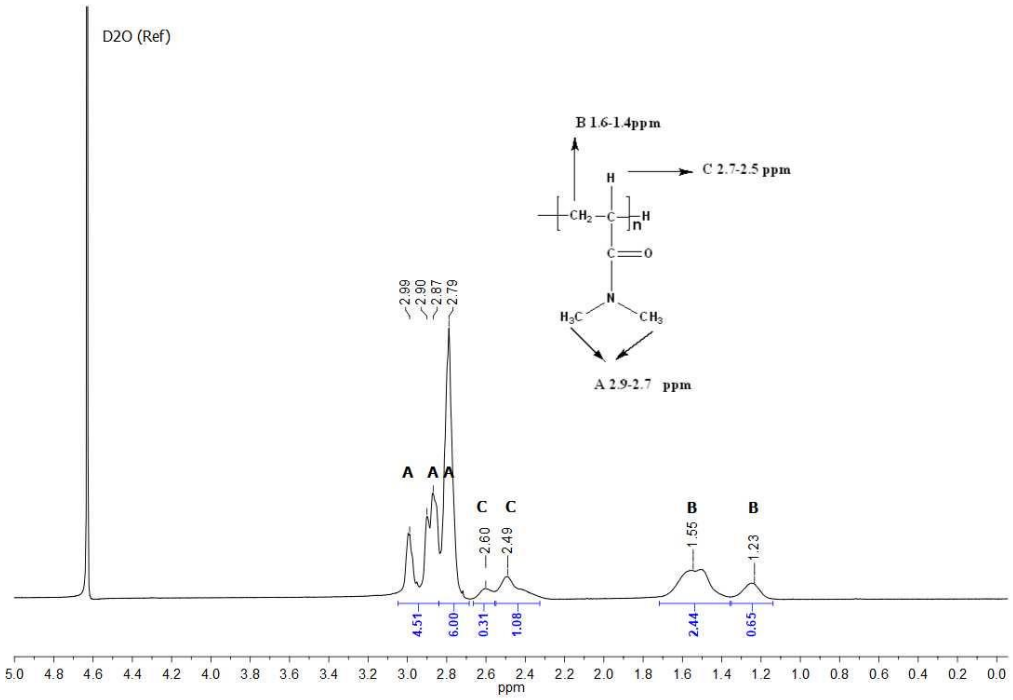
Malvern Panalytical



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P41426, Injection 1, Peak 1	16.25	108,655	156,513	138,995	225,388	1.44

B. NMR (HNMR) OF PDMA general



C. Dependence of glass transition temperature (Tg) of PDMA from its molecular weight: