

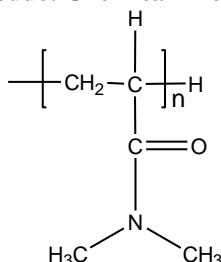
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P40560-R-DMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	202,000
MW (g/mole)	498,000
Mw/Mn	2.47
dn/dc (mL/g)	0.165 in water

Method of Synthesis

The polymer is prepared by radical polymerization process.

Solubility in different solvents

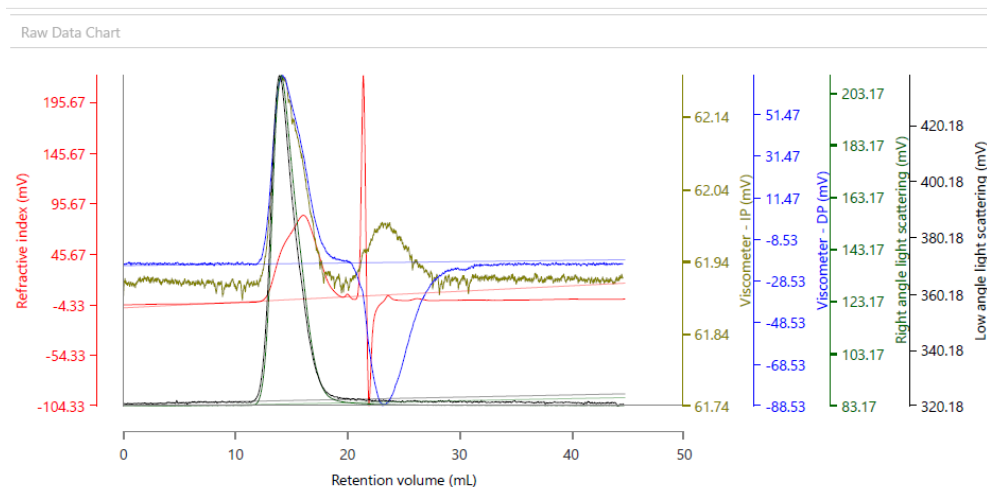
THF	√	DMF	√
Alcohol	√	CHCl3	√
Toluene	X	DMSO	√

Validation of Architecture

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

Polymer Source

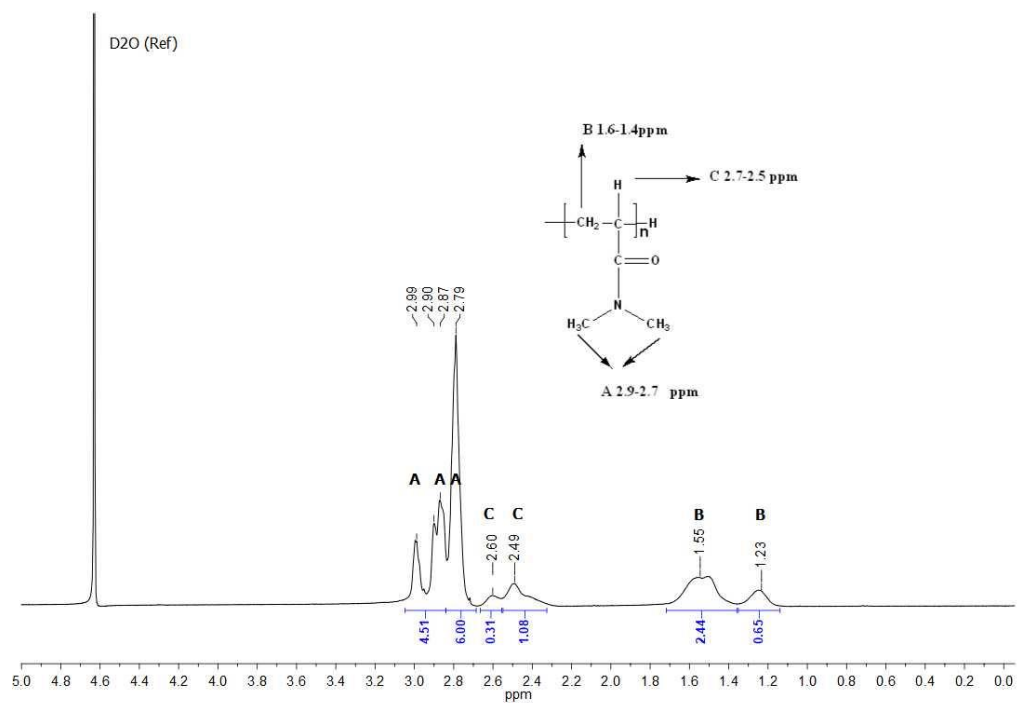
Malvern Panalytical



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P40560, Injection 1, Peak 1	16.08	201,966	497,918	219,162	1,177,501	2.465

B. NMR (HNMR) OF PDMA general



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

