

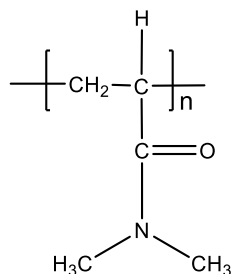
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P40552D-R-DMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	93,000
MW (g/mole)	216,000
MW/Mn	2.3
dn/dc (mL/g)	1.65 in water

Method of Synthesis

The polymer is prepared by radical polymerization process.

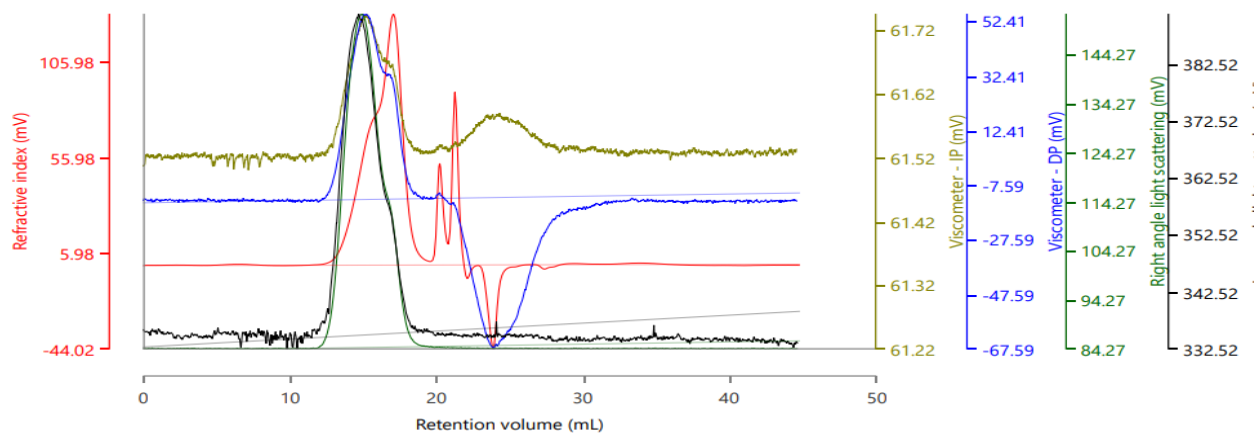
Solubility in different solvents

THF	√	DMF	√
Alcohol	√	CHCl ₃	√
Toluene	X	DMSO	√

Validation of Architecture

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

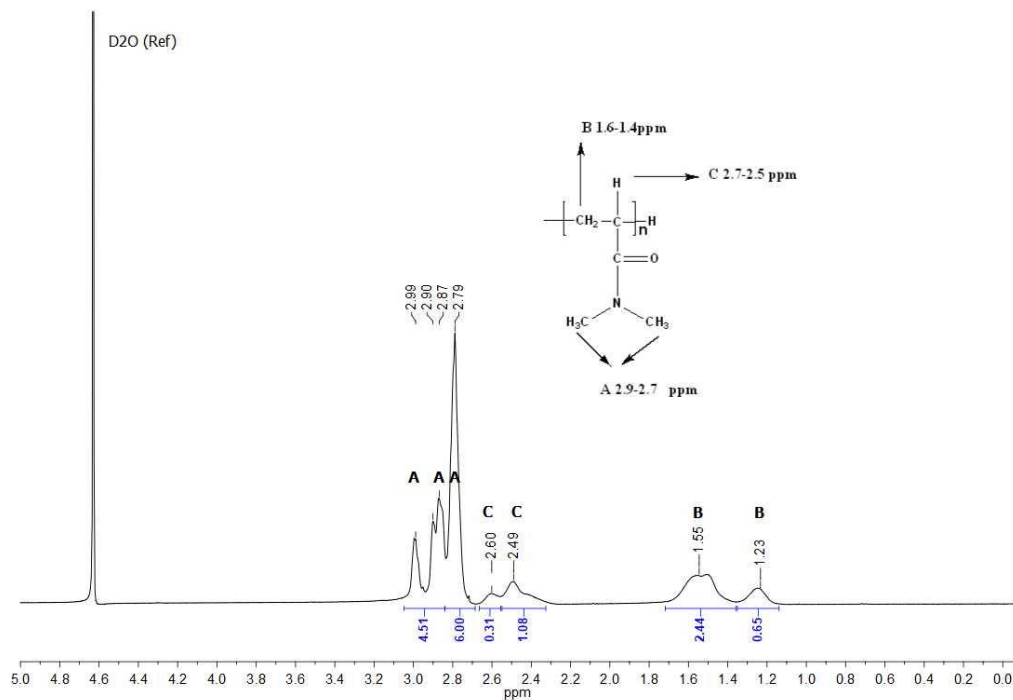
Raw Data Chart



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P40552D, Injection 1, Peak 1	17.05	92,751	215,778	66,037	469,032	2.326

B. NMR (HNMR) OF PDMA general



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

