

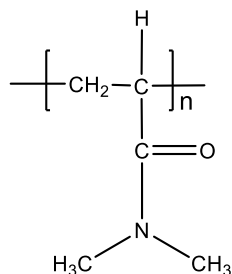
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P14723-R-DMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	637,000
MW (g/mole)	981,000
MW/Mn	1.54
dn/dc (mL/g)	1.65 in water

Method of Synthesis

The polymer is prepared by radical polymerization process.

Solubility in different solvents

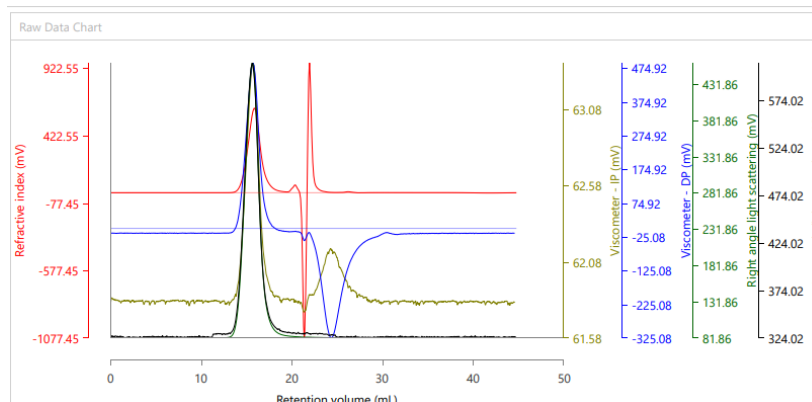
THF	√	DMF	√
Alcohol	√	CHCl ₃	√
Toluene	X	DMSO	√

Validation of Architecture

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

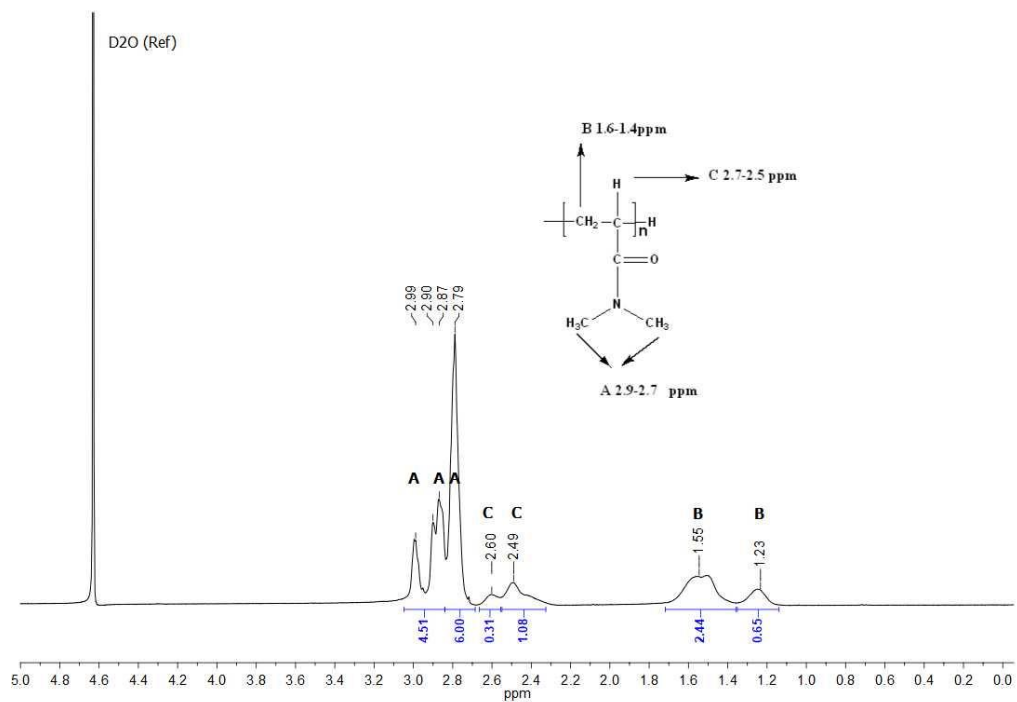
Polymer Source

Malvern Panalytical



Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P14723, Injection 1, Peak 1	15.89	637,477	981,426	460,981	5,847,104	1.54

B. NMR (HNMR) OF PDMA general



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

