

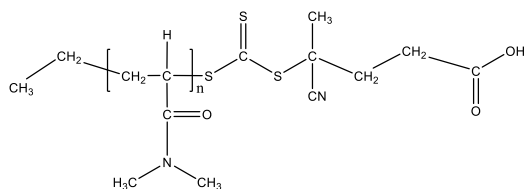
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P41270-4-R-DMA

Product Chemical Architecture:

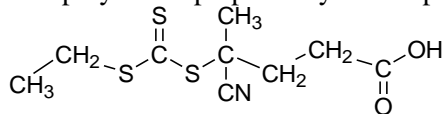


Composition:

Mn (g/mole)	8,800
MW (g/mole)	15,000
MW/Mn	1.75
dn/dc (mL/g)	1.65 in water

Method of Synthesis

The polymer is prepared by RAFT polymerization process using the following RAFT moiety:



Solubility in different solvents

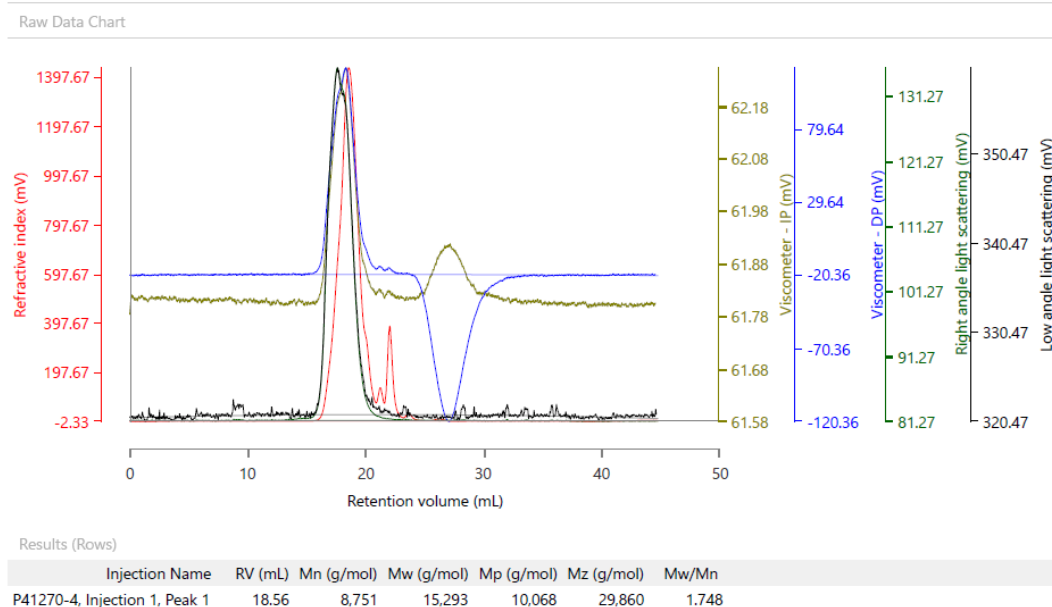
THF	√	DMF	√
Alcohol	√	CHCl ₃	√
Toluene	X	DMSO	√

Validation of Architecture

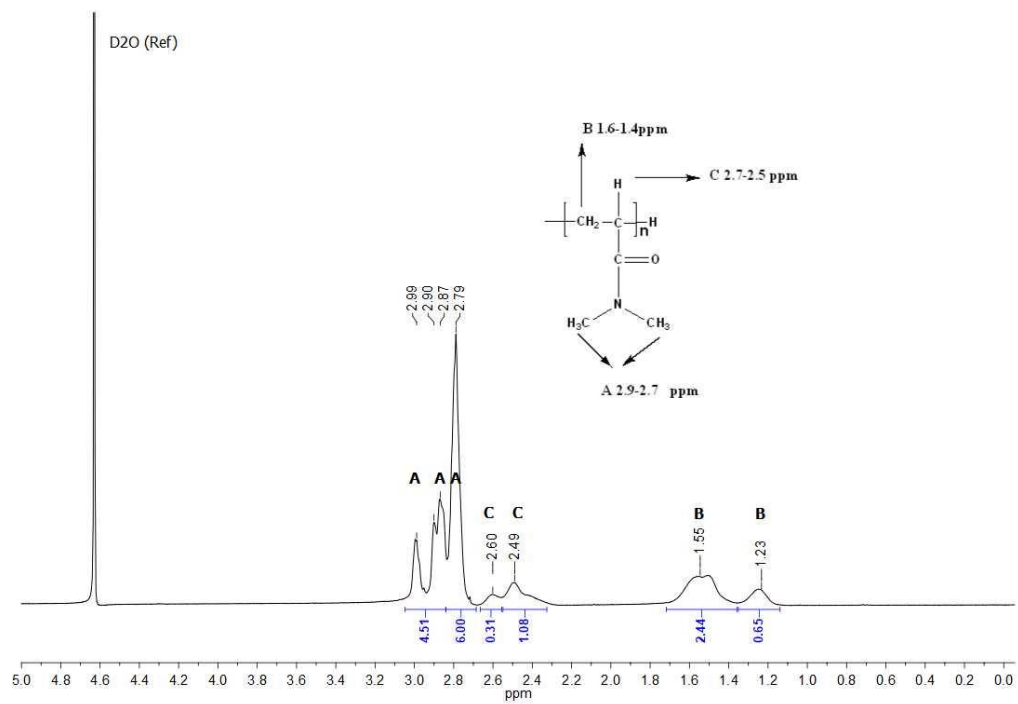
A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

Malvern Panalytical



B. NMR (HNMR) OF PDMA general



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

