

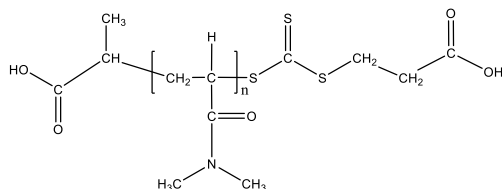
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P41429-R-DMA

Product Chemical Architecture:

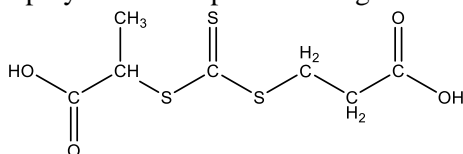


Composition:

Mn (g/mole)	38,000
MW (g/mole)	54,000
Mw/Mn	1.43
dn/dc (mL/g)	0.165 in water

Method of Synthesis

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



Solubility in different solvents

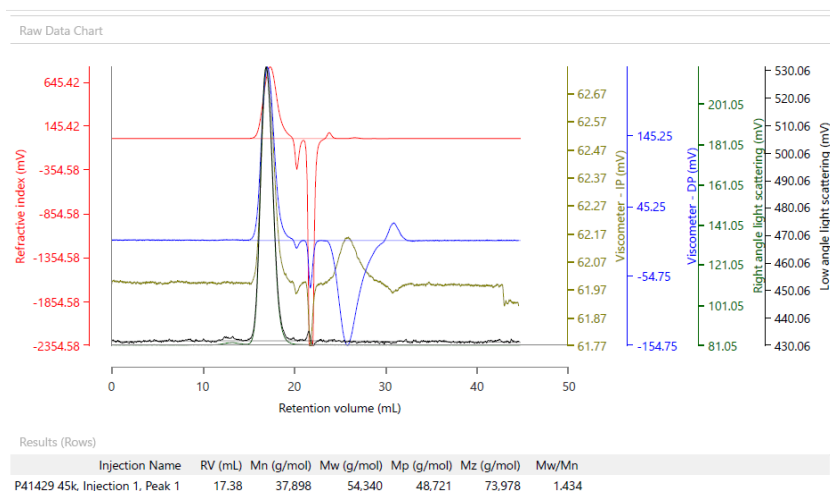
THF	✓	DMF	✓
Alcohol	✓	CHCl ₃	✓
Toluene	X	DMSO	✓

Validation of Architecture

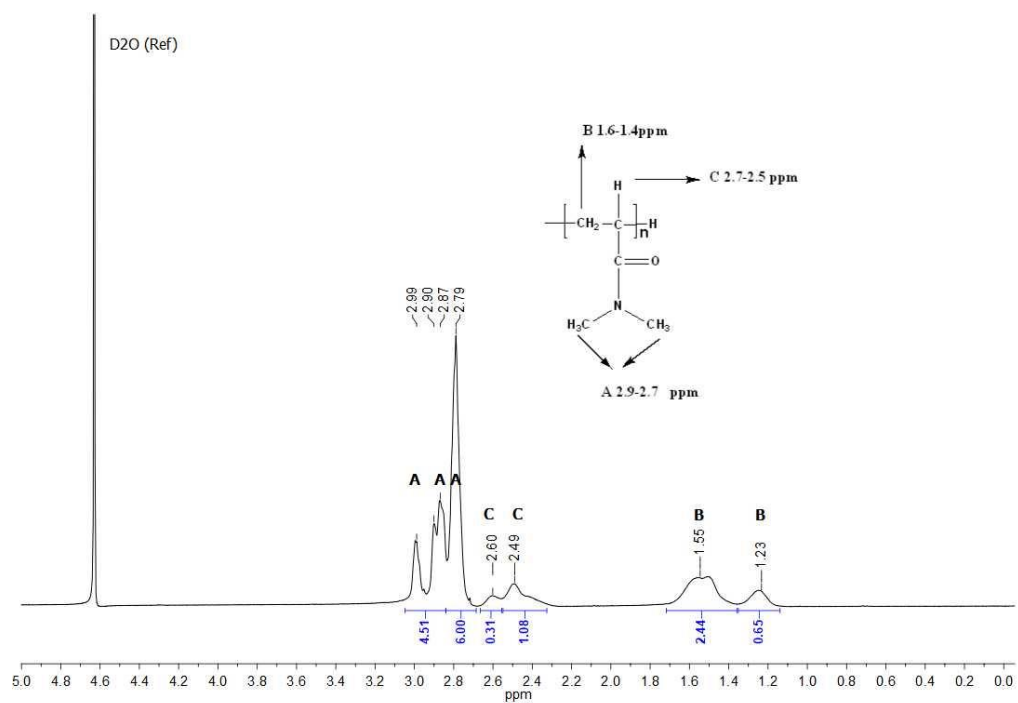
A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

Malvern Panalytical



B. NMR (HNMR) OF PDMA general



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

