

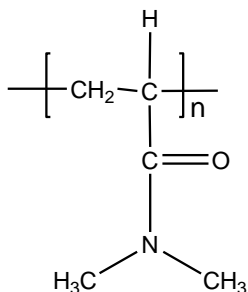
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P7127A-R-DMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	18,000
MW (g/mole)	34,000
Mw/Mn	1.83
dn/dc (mL/g)	0.165 in water

Method of Synthesis

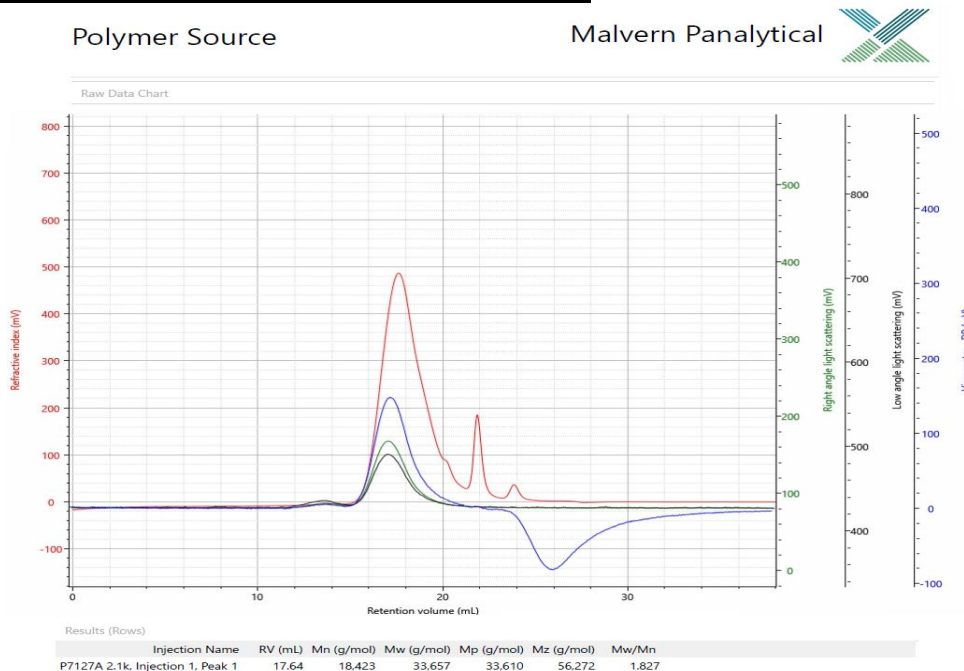
The polymer is synthesized by free radical polymerization.

Solubility in different solvents

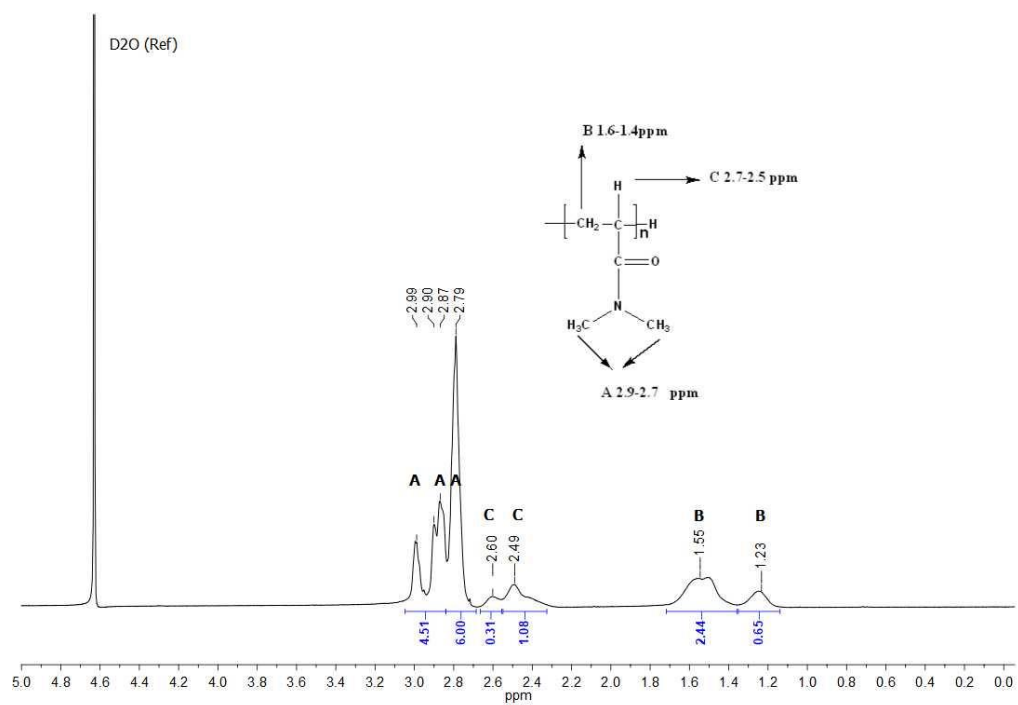
THF	√	DMF	√
Alcohol	√	CHCl ₃	√
Toluene	X	DMSO	√

Validation of Architecture

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



B. NMR (HNMR) OF PDMA general



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

