

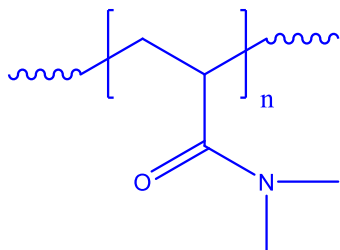
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P6176F1-R-DMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	101,000
MW (g/mole)	162,000
Mw/Mn	1.6
dn/dc (mL/g)	0.165 in water

Method of Synthesis

The polymer is synthesized by free-radical polymerization initiated by AIBN.

Solubility in different solvents

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

Validation of Architecture

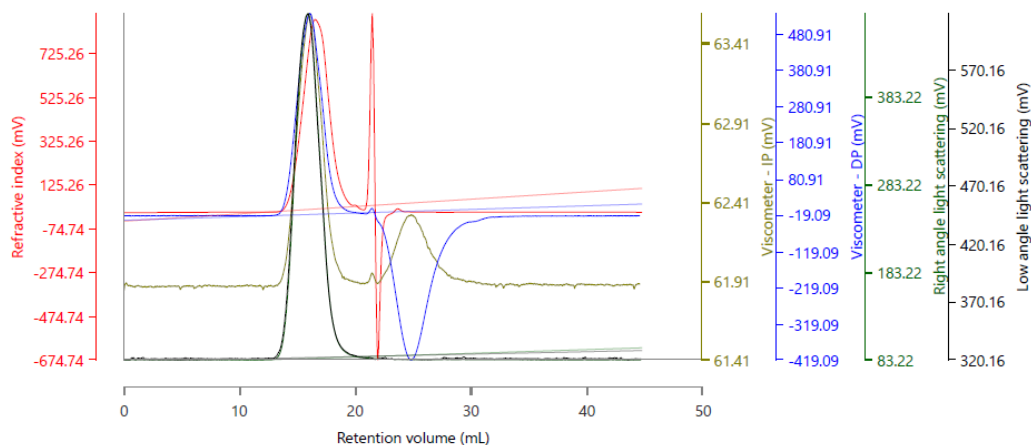
A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

Malvern Panalytical



Raw Data Chart



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P6176F1, Injection 1, Peak 1	16.54	101,076	161,742	131,535	271,308	1.6

B. NMR (HNMR) OF PDMA general



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

