# Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)
Product Lot Number: P8800-R-DMA

Product Chemical Architecture:
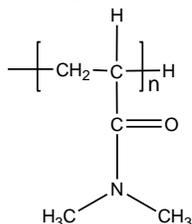
Composition:

Mn (g/mole)	**30,000**
MW (g/mole)	**107,000**
Mw/Mn	**3.57**
dn/dc (mL/g)	**0.165 in water**

Method of Synthesis

The polymer is synthesized by GTP polymerization.

Solubility in different solvents

THF	√	DMF	√
Alcohol	√	CHCl3	√
Toluene	**X**	DMSO	√

Validation of Architecture

A.   Gel Permeation Chromatography (GPC), SEC- Profile:
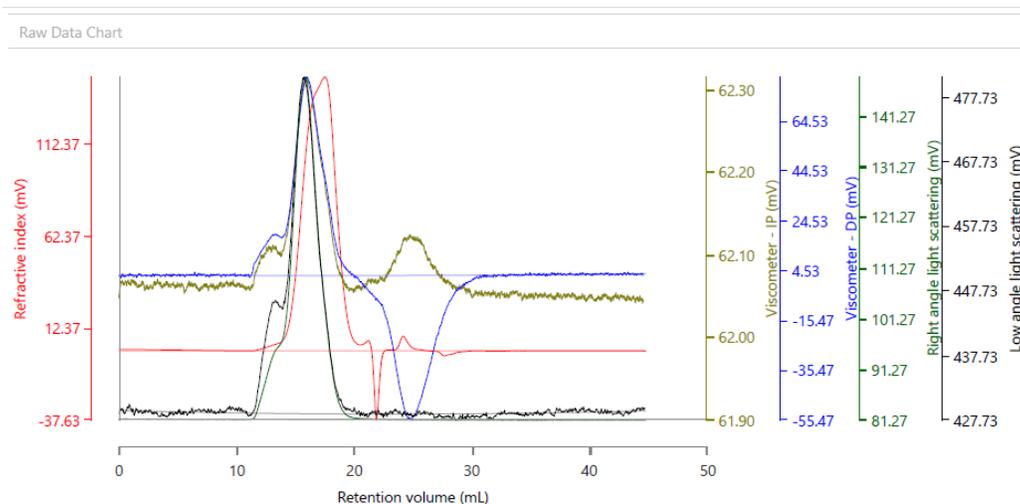
Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P8800, Injection 1, Peak 1	17.51	29,912	106,712	33,712	490,506	3.568

B. **NMR (HNMR) OF PDMA general**
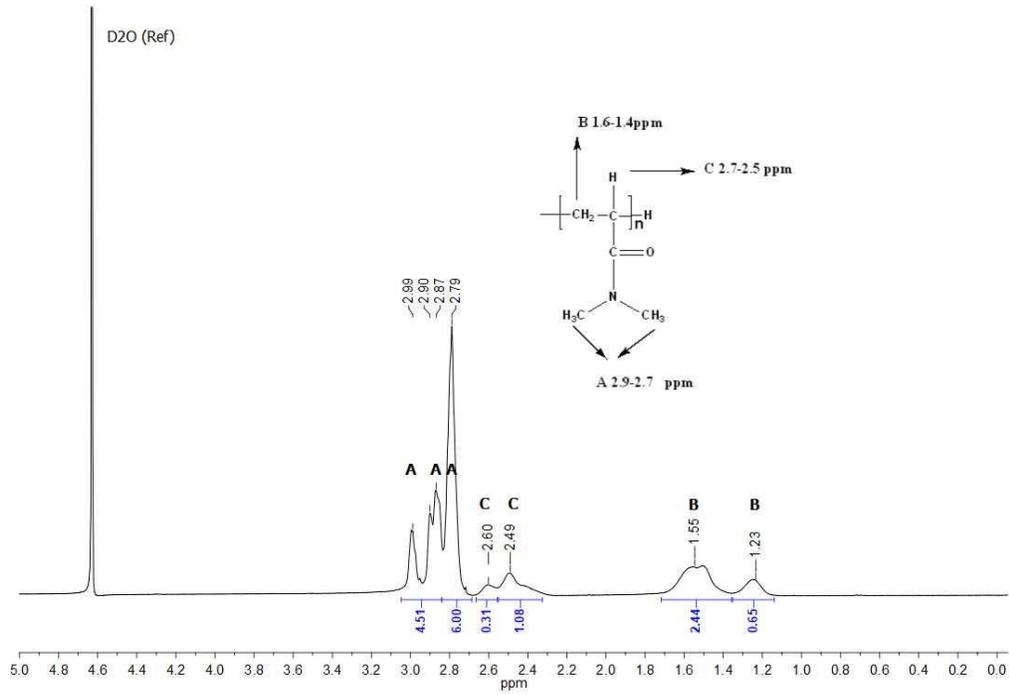
C. **Dependence of glass transition temperature (Tg) of PDMA from its molecular weight:**