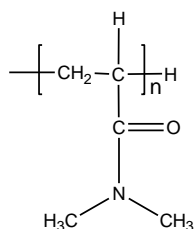


Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P14734-R-DMA



Product Chemical Architecture:

Composition:

| | |
|---------------------|-----------------------|
| Mn (g/mole) | 156,000 |
| MW (g/mole) | 187,500 |
| Mw/Mn | 1.20 |
| 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

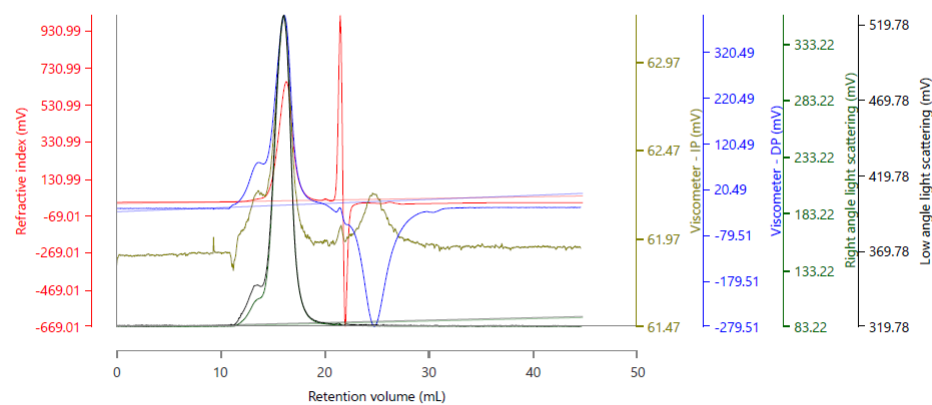
A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

Malvern Panalytical



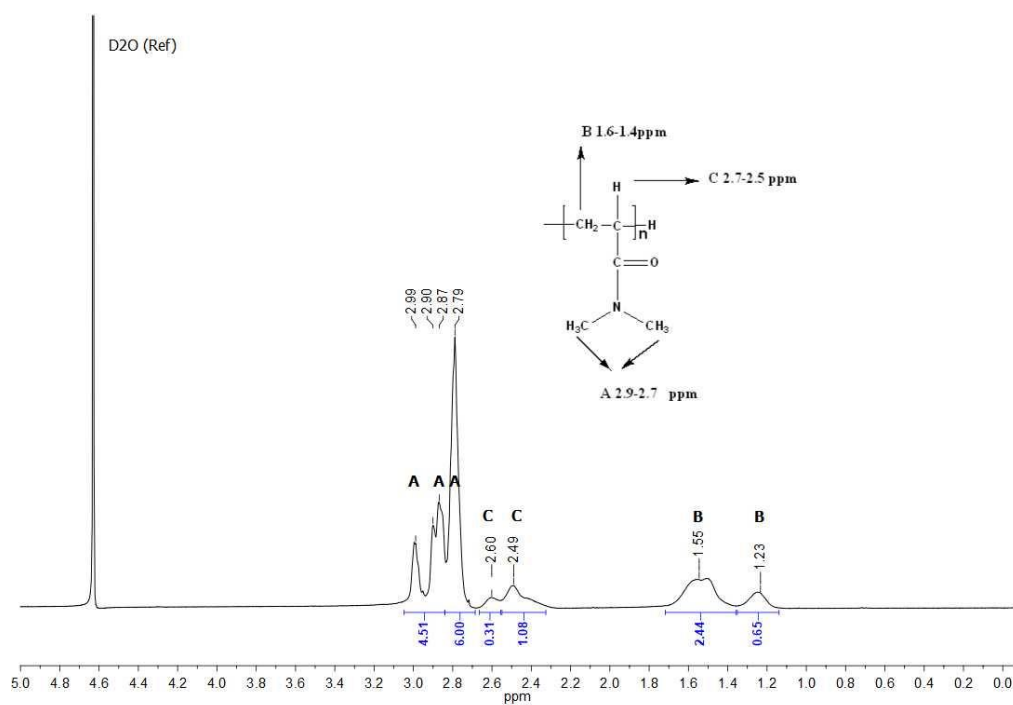
Raw Data Chart



Results (Rows)

| Injection Name | RV (mL) | Mn (g/mol) | Mw (g/mol) | Mp (g/mol) | Mz (g/mol) | Mw/Mn |
|-----------------------------|---------|------------|------------|------------|------------|-------|
| P14734, Injection 1, Peak 1 | 16.32 | 155,764 | 187,501 | 142,561 | 275,858 | 1.204 |

B. NMR (HNMR) OF PDMA general



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

