

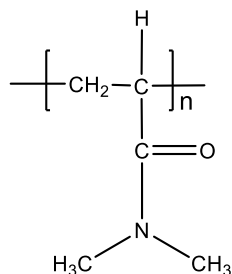
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P6564F3-R-DMA

Product Chemical Architecture:



Composition:

| | |
|---------------------|---------------|
| Mn (g/mole) | 33,000 |
| MW (g/mole) | 69,000 |
| MW/Mn | 2.10 |
| dn/dc (mL/g) | 1.65 |

Method of Synthesis

The polymer is prepared by radical polymerization process.

Solubility in different solvents

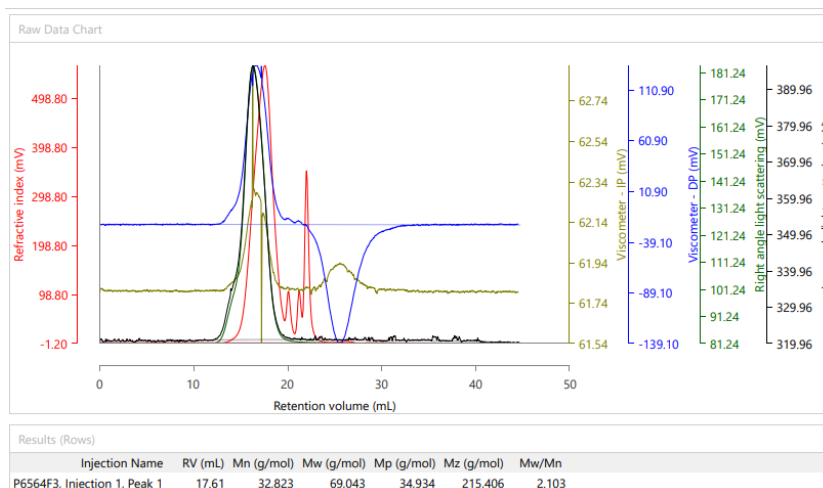
| | | | |
|---------|---|-------------------|---|
| THF | √ | DMF | √ |
| Alcohol | √ | CHCl ₃ | √ |
| Toluene | X | DMSO | √ |

Validation of Architecture

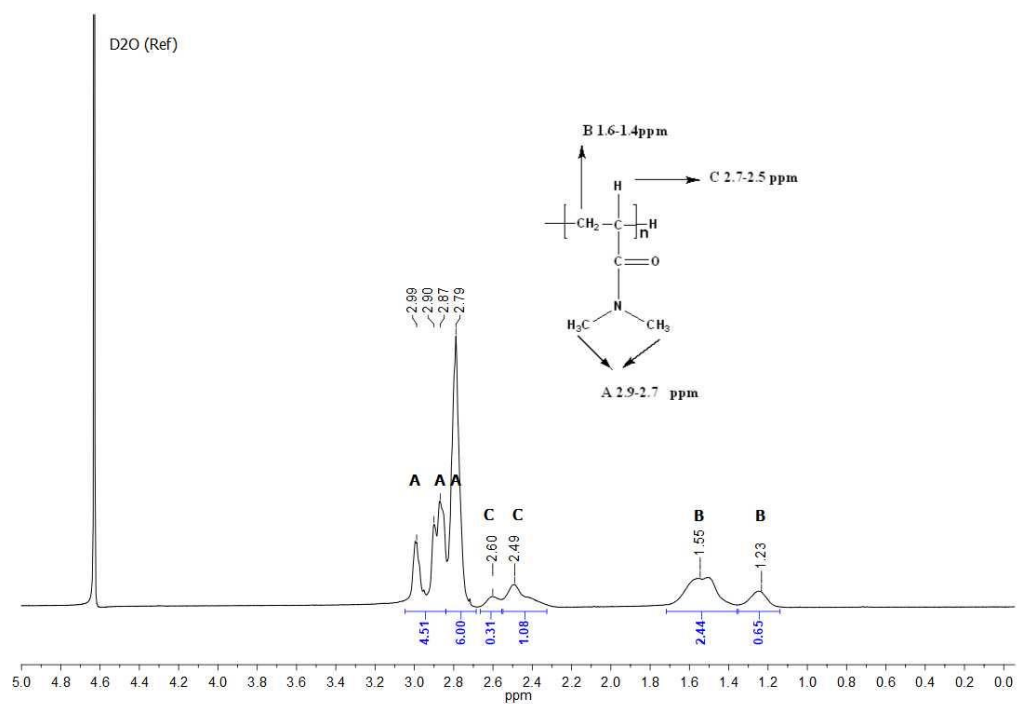
A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

Malvern Panalytical



B. NMR (HNMR) OF PDMA general



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

