

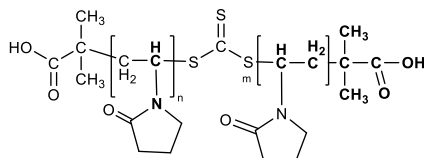
Product Profile

Identification

Sample Name: Poly(N-vinyl pyrrolidone), α - ω -dicarboxy-terminated

Sample # P45028-NVP2COOH

Structure:



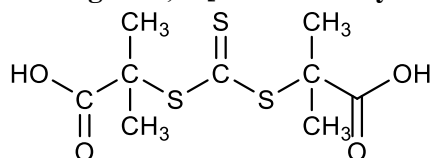
Composition:

$M_n \times 10^3$	$M_w \times 10^3$	PDI
2.5	4.5	1.8

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

Raft Agent: 2,2'-[Carbonothioylbis(thio)]bis[2-methylpropanoic acid] RAF-TSC-6



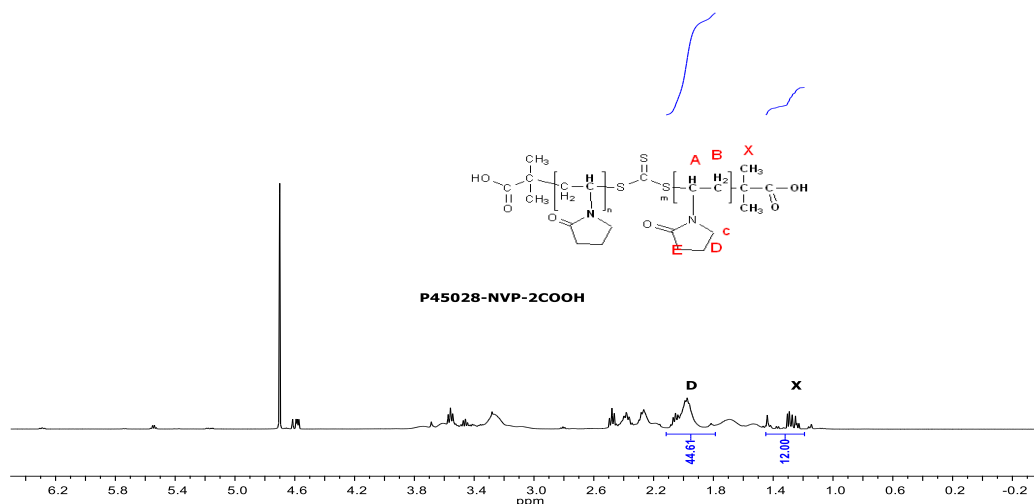
Solubility:

It is soluble in water and alcohol.

Characterization:

The product was characterized by size exclusion chromatography (SEC) and ^1H NMR.

^1H NMR spectrum



GPC profile run in Water:

Polymer	Condition for elution	dn/dc (laser $\lambda=640\text{nm}, 30^\circ\text{C}$)
Poly(vinyl-imidazole)	0.1% (v/v%) TFA in H ₂ O + 0.2M NaOH	0.22

Polymer Source

Malvern Panalytical

