



Y&R

Chemistry for Colorful Life

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Povidone K90

Technical Data Sheet

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Product Description: Homopolymer of 1-vinyl-2-pyrrolidone. In the form of powder or flakes.

INCI-Name: PVP(Polyvinylpyrrolidone)

CAS NO.: 9003-39-8

Formula: (C₆H₉NO)_n

Reference: USP40/NF35

Technical Parameters:

Appearance	White to off-white powder or flakes
Identification	A.IR spectrum obtained is consistent with that obtained with Povidone CRS.
	B.An orange-yellow precipitate is formed
	C.A pale blue precipitate is formed
	D.A deep red color is produced.
	E.The substance dissolves.
pH(5.0% in water solution)	4.0-7.0
Water	5.0% max.
Residue on Ignition	0.1% max.
Lead(as Pb)	10ppm max.
Limit of Aldehydes	0.05% max.
Limit of Hydrazine	1ppm max.
Vinylpyrrolidone (HPLC)	0.001% max
2-Pyrrolidone	3.0% max.
Peroxides(H ₂ O ₂)	400ppm max.

Formic Acid	0.5% max.
K-Value(1.0% in water solution)	81.0-97.2
Nitrogen content (on anhydrous basis)	11.5%-12.8%
Total Aerobic plate count CFU/g	≤1000
Mold/Yeast ,CFU/g	≤1000
Staphylococcus Aureus, CFU/g	Negative
Salmonella, CFU/g	Negative
Pseudomonas aeruginosa, CFU/g	Negative
E.coli CFU/g	Negative

Packaging:25kgs drum.

Shelf Life: 2 years