



# The Leading PVP Manufacturer in China

## JH Nanhang Life Sciences Co., Ltd.

### Sales Office

JH Nanhang Life Sciences Co., Ltd.  
Rm 4310, ZhongYi Building  
580 Nanjing West Road  
Shanghai  
200041, PR China

Tel : +86 21 60123500  
Fax : +86 21 60123501  
Mail : info@jh-nh.com

### Manufacturing Site

JH Nanhang Life Sciences Co., Ltd.  
No.16 Luyin Road  
Hi-Tech Industrial Zone  
Quzhou, Zhejiang  
324004, PR China

Tel : +86 570 8598618  
Fax : +86 570 8598677  
Mail : info@jh-nh.com

[www.jh-nh.com](http://www.jh-nh.com)



**Product Guide**  
JH Nanhang Life Sciences Co.,Ltd.

# Company Information

JHNH is the leading PVP & PVPP manufacturer in China with an annual production capacity of 5,000MT.

Our manufacturing plant in Quzhou (just 2 hours SW of Shanghai) meets all international standards for quality and safety including GMP Compliance and ISO 9001. We hold several regulatory certificates including DMF, CEP, FDA Registration, KOSHER, HALAL etc. Our products for pharmaceutical applications conform to the Current USP/EP/JP/BP/IP standards. Our plant has been successfully audited by many multinational pharmaceutical companies and audit reports from independent auditors are also available.

JHNH serves its customers with high quality products, manufactured to international standards with strong technical service and responsive customer care.

To supply the Best Quality,  
Competitively Priced Products  
that meet all International  
Standards.

We aim to provide  
Outstanding Customer Service  
through a Flexible Approach  
to business.



# Povidone Crospovidone

## Pharma Grade-Povidone

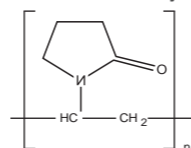
**Description:** Polyvinylpyrrolidone (PVP)

**Appearance:** White to creamy white powder

**CAS No.** 9003-39-8

**INCI:** PVP

**Chemistry:**



Items	K15	K17	K25	K30	K90
Appearance	White or yellowish-white, hygroscopic powder				
Identification A, B,C, D, E	Positive				
Appearance of solution	Clear and NMT B6, BY6 or R6				
Solubility	Freely soluble in water ,in ethanol (96%) and in methanol, very slightly soluble in acetone				
K-value	12.8-17.3	15.3-18.4	22.5-27.0	27.0-32.4	81.0-97.2
Water %	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0	≤ 5.0
Impurity A (1-vinylpyrrolidin-2-one) ppm	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
Impurity B (2-pyrrolidone) %	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0	≤ 3.0
pH	3.0-5.0	3.0-5.0	3.0-5.0	3.0-5.0	4.0-7.0
Peroxides ppm	≤ 400	≤ 400	≤ 400	≤ 400	≤ 400
Nitrogen content %	11.5-12.8	11.5-12.8	11.5-12.8	11.5-12.8	11.5-12.8
Heavy metals (as Lead) ppm	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
Sulphated ash %	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1
Aldehydes ppm	≤ 500	≤ 500	≤ 500	≤ 500	≤ 500
Hydrazine ppm	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
Formic acid %	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Mircobiological	Complies				

\* Products supplied conform to the latest USP, EP & JPE

\* We can also supply Povidone K30 USP - conform to USP31.

### Applications:

- Binder for tablets, granules and hard gelatin capsules
- Bioavailability enhancement , film formation and solubilization
- Injection preparations, stabilization of suspensions and drug stabilization
- Dietetic tablets in nutritional products

## Pharma Grade-Crospovidone

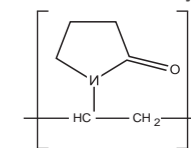
**Description:** Polyvinylpolypyrrolidone (PVPP)

**Appearance:** White to creamy white powder

**CAS No.** 9003-39-8

**INCI:** Crosslinked PVP

**Chemistry:**



Item	XL	XL-10	SL
Appearance	White or yellowish-white, hygroscopic powder		
Solubility	Practically insoluble in water, ethanol 96% and methylene chloride		
Identifications A, B, C	Pass		
Identifications D	Residue fraction > 15% as Type A	Residue fraction ≤ 15% as Type B	Residue fraction ≤ 15% as Type B
Water soluble substances %	≤ 1.5	≤ 1.5	≤ 1.5
Loss on drying %	≤5.0	≤ 5.0	≤ 5.0
Vinylpyrrolidine ppm	≤ 10	≤ 10	≤ 10
Peroxides ppm	≤ 400	≤ 1000	≤ 400
Nitrogen content %	11.0-12.8	11.0-12.8	11.0-12.8
Heavy metals (as Lead) ppm	≤ 10	≤ 10	≤ 10
Sulphated ash %	≤ 0.1	≤ 0.1	≤ 0.1
Particle size μm	40-120	20-40	below 20
Hydration capacity	3 -9	3 -9	3 -9
Powder flow	Positive		
Setting Volume ml	≥ 60		
Mircobiological	Complies		

\* Products supplied conform to the latest USP, EP & JPE

### Applications:

- Disintegrant for tablets, granules and hard gelatin capsules
- Stabilizer for oral and topical suspensions
- Improvement of dissolution, bioavailability and filtration aid

# Copovidone

# Povidone Iodine

## Pharma Grade-Copovidone

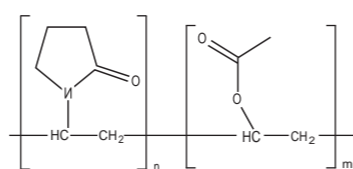
**Description:** Vinylpyrrolidone-vinylacetate copolymer (PVP/VA64)

**Appearance:** White to creamy white hygroscopic powder

**CAS No.** 25086-89-9

**INCI:** PVP/VA Copolymer

Chemistry:



Item	Specification
Aspect	White or yellowish-white, hygroscopic powder
Solubility	Freely soluble in water, ethanol 96% and methylene chloride
Identifications A, B, C	Positive
Appearance of solution	Clear and NMT B <sub>s</sub> , R <sub>s</sub> or BY <sub>s</sub>
K-value	27.0 - 33.0
Loss on drying %	≤ 5
Monomers %	≤ 0.1
Peroxides ppm	≤ 400
Nitrogen content %	7.0 – 8.0
Heavy metals (as Lead) ppm	≤ 20
Sulphated ash %	≤ 0.1
Aldehydes ppm	≤ 500
Hydrazine ppm	≤ 1
Impurity A (2-Pyrrolidone) ppm	≤ 0.5
Ethenyl acetate %	35.3 – 42.0
Mircobiological	Complies

\* Products supplied conform to the latest USP, EP & JPE

### Applications:

- Binder for tables
- Wet granulation and dry granulation binder, direct compression
- Tablet coating and film-forming agent

## Pharma Grade – Povidone Iodine

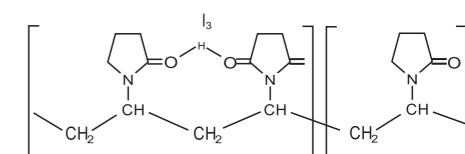
**Description:** Complex of polyvinylpyrrolidone with Iodine (PVP-1)

**Appearance:** Yellowish-brown or Reddish-brown, amorphous powder

**CAS No.** 25655-41-8

**INCI:** PVP Iodine

Chemistry:



Item	Specification
Appearance	Yellowish-brown or reddish-brown amorphous powder
Solubility	Soluble in water and in ethanol (96 %) practically insoluble in acetone
Identifications A, B, C	Positive
pH	1.5 - 5.0
Iodine %	≤ 6.0
Available Iodine %	9.0 - 12.0
Loss on drying %	≤ 8.0
Sulfated ash %	≤ 0.1
Heavy metal (as Lead) ppm	≤ 20

\* Products supplied conform to the latest USP, EP & JPE

### Applications:

- Skin antiseptics
- Surgical hand disinfection, treatment of wounds
- Scalp, vaginal and throat infection, veterinary medicine

# Personal Care

# Personal Care



## Cosmetic Grade - PVP

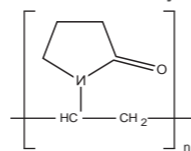
**Description:** Polyvinylpyrrolidone (PVP)

**Appearance:** White to creamy white powder

**CAS No.** 9003-39-8

**INCI:** PVP

**Chemistry:**



Item	K30 Powder	K90 Powder	K30 Solution	K90 Solution
Appearance	White or yellowish-white, hygroscopic powder		Colorless or clear light yellow	
Solubility	Freely soluble in water, ethanol 96%, methanol, very slightly soluble in acetone		/	
Solid Content %			28 - 32	18-22
Identification A,B,C	Positive		/	
Appearance of solution	Clear and NMT B6, BY6, or R6		/	
pH	3.0 - 5.0	4.0 - 7.0	3.0 - 7.0	7.0 - 10.0
K-value	27.0 - 32.4	81.0 - 97.2	27.0 - 32.4	81.0 - 97.2
Aldehydes ppm	≤ 500	≤ 500	≤ 500	≤ 500
Peroxide ppm	≤ 400	≤ 400	≤ 400	≤ 400
Impurity A (1-vinylpyrrolidone-2-one) ppm	≤ 400	≤ 400	≤ 400	≤ 400
Heavy metals (as Lead) ppm	≤ 10	≤ 10	/	
Water %	≤ 5.0	≤ 5.0	/	
Sulphated ash %	≤ 0.1	≤ 0.1	/	
Nitrogen content %	11.5 - 12.8	11.5 - 12.8	/	

### Applications:

- Film former agents that are used as hair fixatives, particularly in aerosol sprays, pump sprays, liquid products, mousses and gels
- Emulsion stabilizer in creams and lotions, dispersant for hair colourant, Form stabilizer
- De-stainer and gelling agent in toothpastes, skin adhesive

## Cosmetic Grade - PVP/VA64 & PVP/VA64W

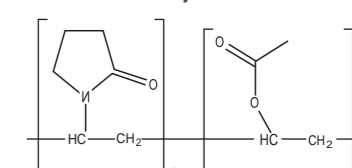
**Description:** Vinylpyrrolidone-vinylacetate copolymer (PVP/VA64)

**Appearance:** White to creamy white hygroscopic powder

**CAS No.** 25086-89-9

**INCI:** PVP/VA Copolymer

**Chemistry:**



Item	Specification
Aspect	White or yellowish-white, hygroscopic powder
Identifications A,B,C	Positive
Appearance of solution	Clear and NMT B <sub>5</sub> , R <sub>5</sub> or BY <sub>5</sub>
K-value	27.0 - 33.0
Aldehydes ppm	≤ 500
Peroxides ppm	≤ 400
Hydrazine ppm	≤ 1
Monomers %	≤ 0.1
Impurity A (2-pyrrolidone) %	≤ 0.5
Heavy metals (as Lead) ppm	≤ 20
Loss on drying %	≤ 5
Sulfated ash %	≤ 0.1
Nitrogen content %	7.0 - 8.0
Ethenyl acetate %	35.3 - 42.0

Item	Specification
Appearance of solution	Clear or faint yellowish
pH	3.0 - 7.0
K-value	26.0 - 34.0
Free Vinylpyrrolidone ppm	≤ 400
Free Vinyl acetate ppm	≤ 400
Solid Content %	48 - 52

### Applications:

- Particular used in aerosol hair spray, pump spray, setting lotions,
- Setting mousses, gels and hair waxes
- Styling agent

# Food/Beverage

# Tech/Industry



## Food/Beverage Grade - PVPP

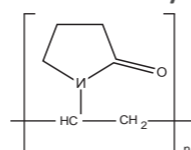
**Description:** Polyvinylpyrrolidone (PVPP)

**Appearance:** White to creamy white powder

**CAS No.** 9003-39-8

**INCI:** PVP

**Chemistry:**



Item	PVPP-F (One-way)	PVPP-R (Regenerable)
Appearance	A white hygroscopic powder with a faint, non-objectionable odour	
Solubility	insoluble in water, ethanol and ether	
Identifications A, B, C	Positive	
Identifications D	Residue fraction > 15% as Type A	Residue fraction <= 15% as Type B
Odor (500mg/L of water)	Faint, typical	
pH	5.0 - 8.0	
Moisture (Karl Fischer) %	≤ 5.0	
Water soluble substance %	≤ 1.0	
Acid/Alcohol soluble from PVPP %	≤ 1.0	
Vinylpyrrolidone ppm	≤ 10	
Nitrogen content %	11.0-12.8	
Heavy metals ppm	≤ 10	
Sulphated ash %	≤ 0.4	
Hydration capacity	3 - 9	
Particle size μm	20 - 40	40 - 100
Setting Volume ml	≤ 60	
Adsorptive capacity %	≥ 40	

### Applications:

- Clarifying agent and stabilizer in beer, wine and fruit juice

### Regulation:

- PVPP is permitted for use in beer stabilization in Europe, US and Asia (the Reinheitsgebot)

## Technical Grade - PVP

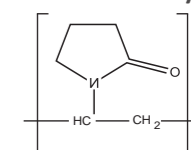
**Description:** Polyvinylpyrrolidone (PVP)

**Appearance:** White to creamy white powder

**CAS No.** 9003-39-8

**INCI:** PVP

**Chemistry:**



Item	K15	K30	K90
Appearance	White or yellowish-white, hygroscopic powder		
Solubility	Freely soluble in water, ethanol 96%, methanol,		
pH	3.0-7.0		
K-value	12.8-17.3	27.0-32.4	81.0-97.2
Vinylpyrrolidone %	≤ 0.2		
Water %	≤ 6.0		

### Applications:

- Adhesives: glue sticks, hot-melt adhesive
- Paper: coating of ink -jet paper and special papers
- Agriculture: seed coating and plant protection
- Coating and Inks: dispersion and paints, catheter coating
- Electronic: screens, batteries, printed circuit boards, ceramics, textile and fibers, photographic film and paper
- Others: membranes, metallurgy, enzymes, laundry detergent

# N-Vinylpyrrolidone

# 2-Pyrrolidone

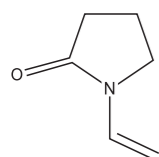
## Description:

N-vinyl-2-pyrrolidone (NVP)

## Appearance:

Colorless to light yellow liquid

## Chemistry:



CAS No. 88-12-0

Items	Specification
Appearance	Colorless or light yellow liquid
Purity %	≥ 99.0 %
APHA(Color standard)	60 max (Pt-co color)
2-pyrrolidone %	≤ 0.2
Water %	≤ 0.2
Total Impurities %	≤ 1

## Applications:

- Important monomer for varieties of homopolymers and copolymers
- Reactive diluent in UV curable coatings for plastics, wood, metal, inks, electronics and adhesives etc

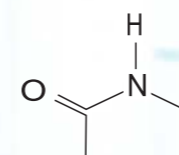
## Description:

2-Pyrrolidone (2-P)

## Appearance:

Colorless or light yellow liquid

## Chemistry:



CAS No. 616-45-5

Items	Specification
Appearance	Colorless or light yellow liquid
Purity %	≥ 99.0 %
APHA(Color standard)	30 max (Pt-co color)
γ-Butyroladone(by gas chromatography) %	≤ 0.2
Water %	≤ 0.3

## Applications:

- Solvent for veterinary injection preparations
- Absorption enhancer in topical preparations
- Humectant and cosolvent in digital printing inks
- Plasticizer for acrylic resins

# Regulatory Certification

- ✓ China Pharmaceutical Registration License
- ✓ China Excipient Manufacturing License
- ✓ FDA certificate of registration
- ✓ DMF certificate
- ✓ ISO 9001 certificate
- ✓ Certificate of Suitability (CEP)
- ✓ GMP Compliance
- ✓ HALAL certificate
- ✓ KOSHER certificate
- ✓ Stability data (studies carried out in accordance with ICH Q1 guidelines)
- ✓ Confirmation Letter of REACH Pre-registration



## Available Packaging

Product	Packaging	N.W. (kgs)
Povidone K Series	Plastic Drum	25
	Fiber Drum	25
Crosopovidone Type A	Plastic Drum	25
	Fiber Drum	20
Crosopovidone Type B	Plastic Drum	20
	Fiber Drum	20
Covopovidone VA64	Plastic Drum	20
	Fiber Drum	20
Povidone Iodine	Plastic Drum	25
	Fiber Drum	25

\* One 20' FCL with pallet can load 6,000kg Povidone K Series product.  
Other product loading information upon request.

