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Co. Ltd.**

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INDIA: SOLE SELLING PARTNER



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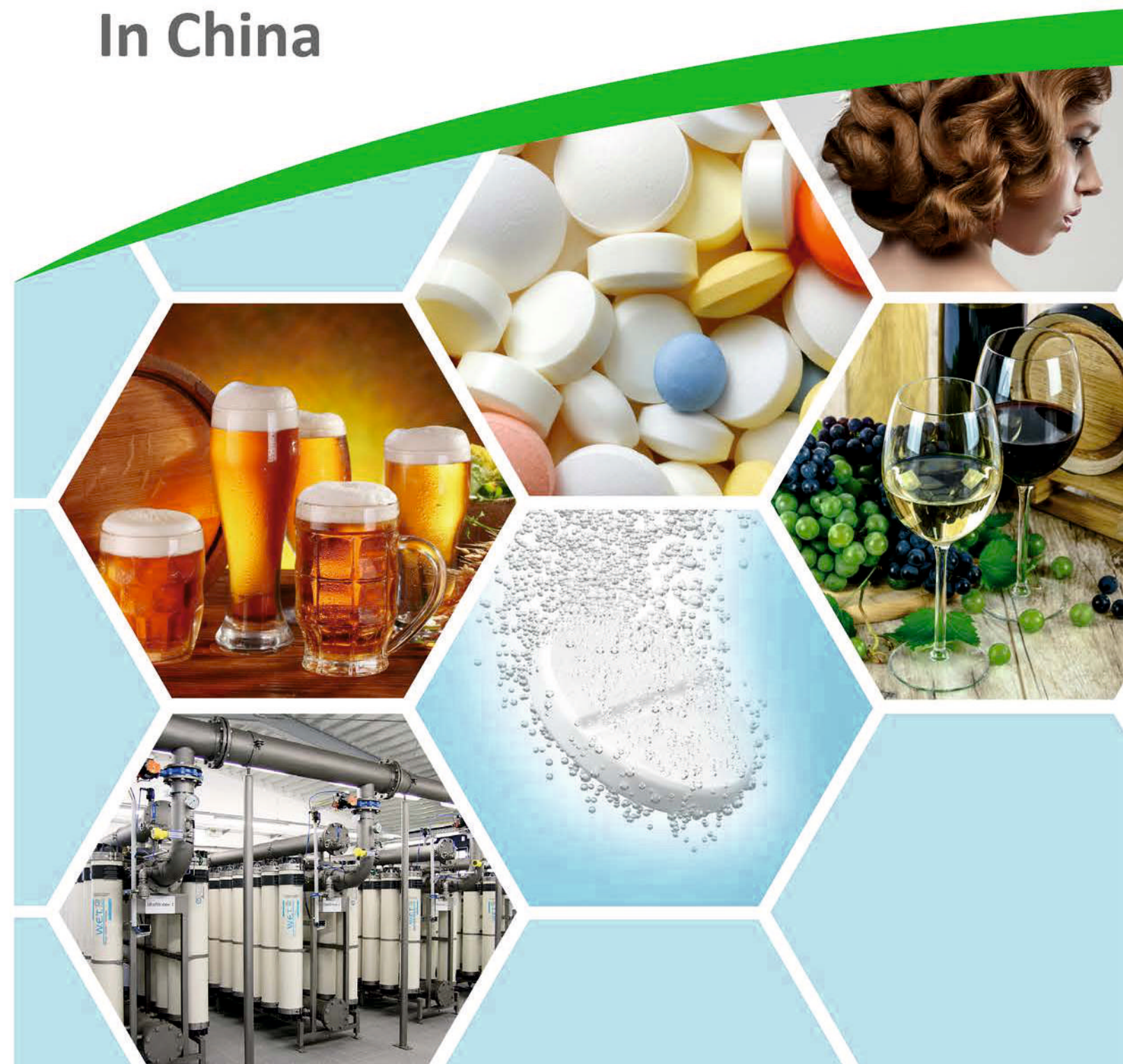
Email: indosolexports@gmail.com

Web: www.indosolexports.com



JH Nanhang Life Sciences Co. Ltd.

**The Leading
PVP Manufacturer
In China**



Company Information

JHNNH 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 ISO 9001 & ISO 14001 . 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/CP standards. Our plant has been successfully audited by many multinational pharmaceutical companies and audit reports form independent auditors are also available.

JHNNH 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

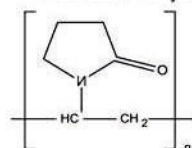
Description: Polyvinylpyrrolidone (PVP)

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 B ₆ , BY ₆ or R ₆				
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
Lead ppm	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10
Residue on ignition %	≤ 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
Microbiological	Complies				

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

* Povidone K30 USP available

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

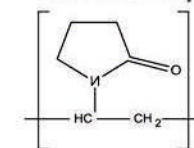
Description: Polyvinylpolypyrrolidone (PVPP)

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
Vinylpyrrolidone ppm	≤ 10	≤ 10	≤ 10
Peroxides ppm	≤ 400	≤ 1000	≤ 400
Nitrogen content %	11.0 - 12.8	11.0 - 12.8	11.0 - 12.8
Lead ppm	≤ 10	≤ 10	≤ 10
Residue on ignition %	≤ 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		
Microbiological	Complies		

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

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 VA64

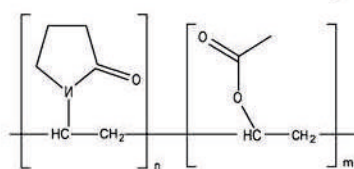
Description: Vinylpyrrolidone-vinylacetate copolymer (PVP/VA64)

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 ₅ , R ₅ or BY ₅
K-value	27.0 - 33.0
Loss on drying %	≤ 5
Monomers %	≤ 0.1
Peroxides ppm	≤ 400
Nitrogen content %	7.0 - 8.0
Heavy metals ppm	≤ 20
Ash (residue on ignition or sulphated) %	≤ 0.1
Aldehydes ppm	≤ 500
Hydrazine ppm	≤ 1
2-Pyrrolidone ppm	≤ 0.5
Ethenyl acetate %	35.3 - 42.0
Microbiological	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

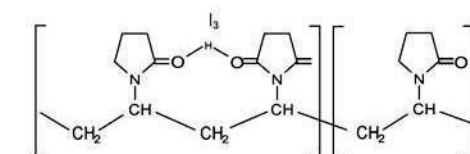
Description: Complex of polyvinylpyrrolidone with Iodine (PVP-I)

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

Applications:

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

Personal Care

Personal Care



Cosmetic Grade - PVP

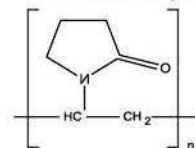
Description: Polyvinylpyrrolidone (PVP)

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 B ₆ , BY ₆ , or R ₆		/	
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

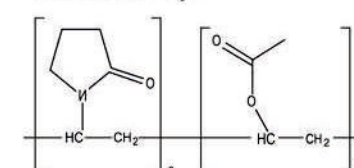
Description: Vinylpyrrolidone-vinylacetate copolymer (PVP/VA64)

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 ₅ , R ₅ or BY ₅
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:

- Particularly 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

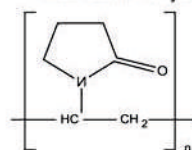
Description: Polyvinylpyrrolidone (PVPP)

Appearance: White to creamy-white powder

CAS No. 9003-39-8

INCI: Crosslinked 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

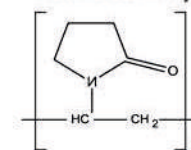
Description: Polyvinylpyrrolidone (PVP)

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

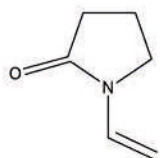
Description:

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%	≥ 99.5%
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

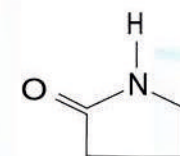
Description:

2-Pyrrolidone (2-Pyrol)

Appearance:

Colorless or light yellow liquid

Chemistry:



CAS No. 616-45-5

Items	Specification	
Appearance	Colorless or light yellow liquid	
Purity %	≥ 99.0%	≥ 99.5%
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

- ✓ CDE Registration
- ✓ China Excipient Manufacturing License
- ✓ FDA certificate of registration
- ✓ DMF certificate
- ✓ ISO 9001 certificate
- ✓ ISO 14001 certificate
- ✓ Certificate of Suitability (CEP)
- ✓ GMP Compliance certificate
- ✓ HALAL certificate
- ✓ KOSHER certificate
- ✓ Stability data (studies carried out in accordance with ICH Q1 guidelines)
- ✓ Confirmation Letter of REACH Registration



Available Packaging

Product	Packaging	N.W. (kgs)
Povidone K Series	Plastic Drum	25
	Fiber Drum	25
Crospovidone Type A	Plastic Drum	20/25
	Fiber Drum	20
Crospovidone Type B	Plastic Drum	25
	Fiber Drum	20
Copolvidone VA64	Plastic Drum	25
	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.

