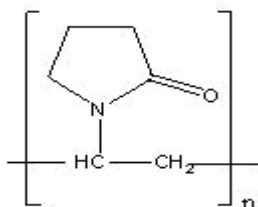


Technical Data Sheet

PVP-K

Product Information

Chemical Name	Homopolymer of Vinylpyrrolidone
CAS #	9003-39-8
Formula	(C ₆ H ₉ NO) _n
Synonym	PVP K
Chemical Structure	



Description

Povidone is a hygroscopic polymer, supplied in white or creamy white powder or flakes, ranging from low to high viscosity & low to high molecular weight, which is characterized by K Value. It is easily soluble in water and many other organic solvents, with excellent hygroscopicity, film-forming, adhesive, chemical stability and toxicological safety characteristics.

Specification

Povidone		K17	K25	K30	K90	
Appearance		White or off-white powder				
Solubility		Freely soluble in water, in ethanol (96%) and in methanol, very slightly soluble in acetone.				
Appearance of Solution		Clearly and not more intensely colored than reference solution B6, BY6 or R6				
Identifications		Meet Requirements				
K value		15.3-18.4	22.5-27.0	27-32.4	81-97.2	
N-Vinylpyrrolidone (Impurity A)	USP26 %max	0.1	0.1	0.1	0.1	
	Current USP/EP/BP ppm max	10	10	10	10	
Moisture	% max	5.0	5.0	5.0	5.0	
Solid content	% min	95	95	95	95	
pH value(5% in aqueous solution)		3.0-5.0	3.0-5.0	3.0-5.0	4.0-7.0	
Sulphate Ash	% max	0.1	0.1	0.1	0.1	
Nitrogen content		11.5-12.80	11.5-12.80	11.5-12.80	11.5-12.80	
2-Pyrrolidone (Impurity B)		% max	3.0	3.0	3.0	3.0
Aldehyde(as acetaldehyde)		ppm max	500	500	500	500
Heavy metal (as Pb)		ppm max	10	10	10	10
Hydrazine		ppm max	1	1	1	1
Formic acid		% max	0.5	0.5	0.5	0.5
Peroxide(As H ₂ O ₂)		ppm max	400	400	400	400

Safety Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety

Applications

Pharmaceuticals:

Povidone K 30 and K 25 is a new and excellent pharmaceutical excipient. It is mainly used as binder for tablet, dissolving assistant for injection, flow assistant for capsule, dispersant for liquid medicine and pigment, stabilizer for enzyme and heat sensitive drug, coprecipitant for poorly soluble drugs, lubricator and antitoxical assistant of eye drug. PVP has been used as excipients in more than one hundred drugs.

Cosmetics:

PVP K series can be used as film forming agent, viscosity-enhancement agent, lubricator and adhesive. They are the key component of hair sprays, mousse, gels and lotions & solution. They are also convenience assistant in skin care product, hair-drying reagent, shampoo, eye makeup, lipstick, deodorant, sunscreen and dentifrice.

Other Utility:

Suspensant, disperser and emulsifier
Glass fiber
Detergent
Paint and coating
Film
Tableting

Plastics and resin
Ink
Textile dying and printing
Adhesive
TV tube

Packaging

25kg fiber drum.
8-9mt per 20ft container

Storage & Handling

Povidone can be stored at room temperature (max.25°C) in the unopened original containers for at least 3 years. The storage temperature should be kept below 25°C

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.