



Technical Data Sheet

PVP-K Homopolymer Series

■ Chemical Description

--Polyvinylpyrrolidone (abbr. PVP)

■ CAS No. 9003-39-8

■ INCI Name PVP

■ Molecular and Structural Formula (C₆H₉NO)_n



■ Characteristics

--A white to yellowish white, hygroscopic powder;

--Freely soluble in water and a variety of organic solvents;

■ Specification Ph Eur, USP/NF, BP, JP

No	Tests	K15	K17	K25	K30	K90
1	Identification, A B C D E	Complies				
2	Appearance of solution	Clear, ≤B6, BY6 or R6				
3	PH(in 5% solution)	3-5	3-5	3-5	3-5	4-7
4	Viscosity, as K-value	13-17	14.5-19.5	22.5-27	27-32.4	81-97
5	Aldehyde, ppm	≤500	≤500	≤500	≤500	≤500
6	Peroxides (as H ₂ O ₂), ppm	≤400	≤400	≤400	≤400	≤400
7	Formic acid, %	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
8	Hydrazine, ppm	≤1	≤1	≤1	≤1	≤1
9	Impurity A (VP), ppm	≤10	≤10	≤10	≤10	≤10
10	Impurity B (2-pyrrolidone), %	≤3.0	≤3.0	≤3.0	≤3.0	≤3.0
11	Heavy metals, ppm	≤10	≤10	≤10	≤10	≤10
12	Water, %	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0
13	Sulphated ash, %	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1
14	Assay, as Nitrogen content, %	11.5-12.8	11.5-12.8	11.5-12.8	11.5-12.8	11.5-12.8



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■ Application

- Binder for tablets, granules and hard gelatin capsules;
- Bioavailability enhancement, Film formation, Solubilization;
- Injection preparations, Stabilization of suspensions, Drug stabilization;
- Dietetic tablets in nutritional products;

■ Packaging and Storage

- Packed in 25, 50 kg fiber or plastic drum, inner lined with PE bags;
- Stored in dry place at room temperature;