

**Qualikems**

Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

Works : Plot No. 68-69, G.I.D.C Industrial Estate, Nandesari, Vadodara-391340 (Gujarat)

Telefax : 91-265-2841531, 2841532, 2841534, 2841535.

Sales Office : 5531, Basti Harphool singh Sadar Thana Road, Delhi-110006

Tel : +91-11-23618475/23618476, Fax: +91-11-23678476

Email: salesindia@qualikems.com, www.qualikems.com

CERTIFICATE OF ANALYSIS

Name of Product	:	Polyvinyl Pyrrolidone K90	CAS No.	:	9003-39-8
Molecular Formula	:	(C ₆ H ₉ NO) _n	Molecular Weight	:	~ 360000 g/mole
Batch No.	:	QF2506234	Grade	:	LR
Mfg. Date	:	June-2025	Retest Date	:	May-2030

Sr. No.	Tests	Specification	Observation
1	Appearance	White to Yellowish white hygroscopic Powder or flakes	Complies
2	K-Value	85.0 – 95.0	90.30
3	pH (5 % Solution)	3.0 – 7.0	3.52
4	Assay (ex N)	11.5 – 12.8 %	11.63 %
	Maximum Limits of Impurities:		
5	Aldehydes	0.05 %	0.03 %
6	Formic Acid	0.5 %	0.4 %
7	Hydrazine (N ₂ H ₄)	0.0001 %	0.00006 %
8	Lead (Pb)	0.001 %	0.0006 %
9	Peroxide (as H ₂ O ₂)	0.04 %	0.02 %
10	Vinylpyrrolidone	0.001 %	0.0004 %
11	2-Pyrrolidone	3.0 %	2.2 %
12	Residue on ignition	0.1 %	0.06 %
13	Water (H ₂ O)	5.0 %	3.10 %

Conclusion: Product complies as per above specification.

Note: This document has been produced electronically and it is valid without signature.

Quality of our product tested and reported in the COA are as per the specification and without any prejudice/liability what so ever the end product performance

(An ISO 9001 : 2015 & 14001 : 2015 & 45001:2018 Certified Company)

NSIC - CRISIL SE 2B which indicates " High Performance Capability & Moderate Financial Strength