

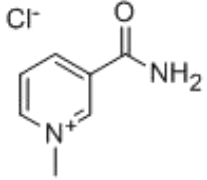


# Wuhan HengHeDa Pharm Co., Ltd

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Wuhan Economic& Technological Development Zone, Wuhan, China

## CERTIFICATE OF ANALYSIS

Product name	1-Methylnicotinamide chloride	
CAS NO	1005-24-9	
Molecular formula	C7H9ClN2O	
Molecular weight	172.61	
Quantity	5KG	
Batch NO	HHD20250912	
Production date	2025.09.12	
Expiry Date	2027.09.11	
Test based on enterprise standard		
Test Item	Specification	Result
Appearance	White to off-white crystalline solid	Conforms
Identification	1 HNMR confirms to structure	Conforms
Solubility	Soluble in water and methanol.	Conforms
Loss on drying	≤1.0%	0.15%
Water	≤0.3%	0.14%
Residue on ignition	≤0.1%	0.01%
Heavy metals	≤20ppm	<20ppm
Related substances	Trigonelline ≤0.05%	Not detected
	Nicotinic Acid ≤0.10%	Not detected
	Nicotinamide ≤0.10%	Not detected
	Largest unknown impurity ≤0.05%	0.014%
	Total unknown impurities ≤0.20%	0.024%
	Total impurities ≤0.50%	0.024%
Residual solvents	Methanol ≤0.3%	0.047%
	Total plate count ≤100cfu/g	< 100cfu/g

The products are for Lab & Research use only in legal and Non-patented area.

Microbiological criteria	Yeasts & moulds $\leq 10\text{cfu/g}$	< 10cfu/g
	Enterobacteriaceae: Absence in 1g	Conforms
	Pseudomonas aeruginosa: Absence in 1g	Conforms
	Staphylococcus aureus: Absence in 1g	Conforms
Assay (HPLC)	98.5%~ 101.5% (On the dried basis)	99.3%

Storage	Store in a well-closed and dry place with room temperature and no direct sun light.	
Shelf life	2 years when properly stored.	
Conclusion: This product complies with above specification.		

Inspector  
Shen Wu

Director  
King Yang

