

CERTIFICATE OF ANALYSIS

Product Name	N-Methyl-2-pyrrolidone GC-HS		
Synonyms	1-Methyl-2-pyrrolidone, N-Methyl-2-pyrrolidone, NMP		
CAS No	872-50-4		
Product code	SY00018	Batch No	LNMBE0506
Molecular Formula	C5H9NO	Molecular Weight	99.13
Mfg. Date	May-25	Expiry Date	Apr-28
Storage Conditions	Store at room temperature, tightly closed container		

Test	Specification	Results
Appearance	Clear colourless liquid	Clear colourless liquid
Color(APHA)	≤ 50	21
K.F(W/W)	≤0.05%w/w	0.009 %w/w
Boiling Point	202 °C.	202 °C
IR Spectrum	Identification by structure	Confirmed
Purity by GC	≥99.80%	99.97%
gamma-Butyrolactone (GBL)	≤0.05%	0.01%
Total Amines by IC	50 PPM	1 PPM
Class 1 solvents	≤ 1 % µg/g	1 % µg/g
Class 2 solvents	≤ 10 % µg/g	10 % µg/g
Class 3 solvents	≤ 50 % µg/g	50 % µg/g

*This product is suitable for residual solvents analysis as per ICH guideline (Ph Eur and USP) for Class 1, Class 2, and Class 3.

*NMP purity including DMP (1, 3-dimethyl-2-pyrrolidone and 1, 4-dimethyl-2-pyrrolidone)

*Total Amines are monomethylamine, dimethylamine, and trimethylamine

Approved by
Dr. Gopinath PH. D

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