

Certificate of Analysis

Product Grade Code No.	n-Methyl-2-Pyrrolidone For Headspace GC Analysis HS1123	Batch No. Manufacturing date Best before	 21 04 0230 30/04/2021 04/2023
Items	Descriptions	Specifications	Test Results
1	Assay (by GC.)	99.8% min.	99.9%
2	Appearance	Clear, colorless liquid	Clear, colorless liquid
3	Color (APHA)	10 max.	< 10
4	Water (by Coulometry)	0.05% max.	0.016%
5	Acidity (mEq./g.)	0.0005 max.	< 0.0005
6	Residue on Evaporation	0.0005% max.	< 0.0005%
7	UV cutoff wavelength	190-269 nm	190-269 nm
8	UV Transmission Levels (%T)		
	> 350 nm	98% min.	99.8%
	320 nm	90% min.	98.1%
	300 nm	85% min.	94.1%
	285 nm	60% min.	82.2%
9	Residual solvent (GC/HS) according to ICH		
	Class 1 Solvents	1 ppm max.	< 1 ppm
	Class 2 Solvents	10 ppm max.	< 10 ppm
	Class 3 Solvents	50 ppm max.	< 50 ppm

Suitable as solvent for the analysis of residual solvent of ICH classes 1,2 and 3 according to Ph Eur and USP. Product passed through 0.2 micron final filter.

This is to certify the above batch has been tested and complies with this specification.

Ladaphan.

Schon.

Chemist

Technical Manager