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CERTIFICATE OF ANALYSIS**ME0503_24545110/1**

Product	1-Methyl-2-pyrrolidone, GC head space grade	Batch	24545110
ME0503		Quality release date	15/02/2024
		Expiry date	02/2027
Analysis		Batch value	Specifications
Assay (G.C.)		99,83 %	≥ 99,8
Refractive index n20/D		1,4706	1,468 - 1,471
Water (K.F.)		0,0123 %	≤ 0,05
Class 1 according to ICH less than 0,5 ppm.			
Benzene		absence of peak	absence of peak
Class 2 and class 3 solvents:			
Dichloromethane		≤ 0,6 mg/L	≤ 0,6
tert-Butyl methyl ether		≤ 1 mg/L	≤ 1
Acetone		≤ 1 mg/L	≤ 1
Methanol		≤ 1 mg/L	≤ 1
Tetrahydrofuran		≤ 0,7 mg/L	≤ 0,7
n-Hexane		≤ 0,3 mg/L	≤ 0,3
Ethyl acetate		≤ 1 mg/L	≤ 1
Ethanol		≤ 1 mg/L	≤ 1
Cyclohexane		≤ 1 mg/L	≤ 1
Acetonitrile		≤ 0,4 mg/L	≤ 0,4
2-Propanol		≤ 1 mg/L	≤ 1
Isopropyl acetate		≤ 1 mg/L	≤ 1
n-Propanol		≤ 1 mg/L	≤ 1
n-Heptane		≤ 1 mg/L	≤ 1
Methylcyclohexane		≤ 1 mg/L	≤ 1
1,4-Dioxane		≤ 0,4 mg/L	≤ 0,4
Toluene		≤ 0,9 mg/L	≤ 0,9
Pyridine		≤ 1 mg/L	≤ 1
n-Butanol		≤ 1 mg/L	≤ 1
Butyl acetate		≤ 1 mg/L	≤ 1
Ethylbenzene		≤ 1 mg/L	≤ 1
p-Xylene		≤ 1 mg/L	≤ 1
m-Xylene		≤ 1 mg/L	≤ 1
o-Xylene		≤ 1 mg/L	≤ 1
Other class 2 solvents		≤ 10 mg/L	≤ 10
Other class 3 solvents		≤ 50 mg/L	≤ 50

Suitable for residual solvent analysis according to guideline CPMP/ICH/283/95, PhEur and USP.
For laboratory use only.