

Certificate of Analysis

Product	Dimethylformamide	Batch No.	: 21 06 0193
Grade	For Headspace GC Analysis	Manufacturing date	: 18/06/2021
Code No.	HS1051	Best before	: 06/2025

Items	Descriptions	Specifications	Test Results
1	Assay (by GC.)	99.9% min.	99.9%
2	Appearance	Clear, colorless liquid	Clear, colorless liquid
3	Color (APHA)	10 max.	< 10
4	Water (by Coulometry)	0.03% max.	0.017%
5	Acidity (mEq./g.)	0.0005 max.	< 0.0005
6	Alkalinity (mEq./g.)	0.0002 max.	< 0.0002
7	Residue on Evaporation	0.0003% max.	< 0.0003%
8	Formic Acid and Acetic Acid	Not detected	Not detected
9	UV cutoff wavelength	190-269 nm	190-269 nm
10	UV Transmission Levels (%T)		
	320 nm	95% min.	97.4%
	300 nm	85% min.	90.0%
	275 nm	55% min.	59.3%
	270 nm	20% min.	25.7%
11	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

Chemist

Achan

Technical Manager