

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.
 Certificate Number. 951001163

Catalogue Number	044063
Lot Number	S15L717
Description	1-Methyl-2-pyrrolidinone, Biograde, 99.5%
CAS Number	872-50-4
Quality Test/Release Date	19/Aug/2025
Suggested retest date	19/Aug/2028
Country of Origin	China
Declaration of Origin	Synthetic
BSE/TSE	Not directly derived from or manufactured with any animal byproducts in any way (including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Assay	ppm	Residue after ignition ≤ 10 ppm	<0.1
Assay	ppm	Amines (as Dimethylamine) ≤ 10.0 ppm	1.7
Assay (GC)	%	GC-FID $\geq 99.5\%$	99.9
Appearance (Color)		Colorless, ≤ 20 APHA	Colorless, 10 APHA
Form		Liquid	Liquid
Water Content (Karl Fischer Titration)	%	$\leq 0.02\%$	0.01
Specific Absorbance (E 1%/1cm)	AU	400 nm ≤ 0.01 Au	<0.001
Specific Absorbance (E 1%/1cm)	AU	350 nm ≤ 0.03 Au	0.001
Specific Absorbance (E 1%/1cm)	AU	325 nm ≤ 0.10 Au	0.01
Specific Absorbance (E 1%/1cm)	AU	300 nm ≤ 0.50 Au	0.05
Specific Absorbance (E 1%/1cm)	AU	285 nm ≤ 1.00 Au	0.11



Luis Perez
 Interim Director Quality, LCD

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.