



## **CERTIFICATE OF ANALYSIS**

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

27048 Catalogue Number Lot Number A0471688

Description Formic acid,99%,for analysis

CAS Number 64-18-6 Quality Test/Release Date 18/Apr/2025 18/Apr/2028 Suggested retest date **GERMANY** Country of Origin **Declaration of Origin** synthetic

Not directly derived from or manufactured with any animal byproducts in any way BSE/TSE

(Including but not limited to fermentation or nutrient broth, catalysts, enzymes).

Result Name	Units	Specifications	Test Value
Appearance (Form)		Clear liquid	Clear liquid
Color scale	APHA	=<10	=<10
Infrared spectrum		Conforms	Conforms
Titration with NaOH	%	>=98.5	99.7
Dilution test		passes test	passes test
Residue after evaporation	%	=<0.005	=<0.005
Refractive index		1.3700 to 1.3720 (20°C, 589 nm)	1.3713 (20°C, 589 nm)
Chloride (CI)	ppm	=<5	=<5
Sulfate (SO4)	ppm	=<50	=<50
Sulfite (SO3)	ppm	=<20	=<20
Cadmium (Cd)	ppm	=<0.1	=<0.1
Copper (Cu)	ppm	=<0.1	=<0.1
Iron (Fe)	ppm	=<2	=<2
Lead (Pb)	ppm	=<0.1	=<0.1

Geert Torfs Supervisor, QC

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