



## Certificate of Analysis

Product Name: Formic Acid  
 Grade: LC-MS grade, UltraPure  
 Chemical Formula: HCOOH  
 Formula Weight: 46.03 g/mol  
 Release Date: July-11-2023

Product Code: CP-L9636  
 Lot #N0110CP  
 CAS# 64-18-6  
 Density: 1.22 g/mL  
 Retest Date: July-10-2026

Analytical Results		
Tests	Specs	Results
Assay ( acidimetry)	>97.5%	99.7%
Color ( APHA )	max. 15	< 15
Ag ( Silver )	max. 20 ppb	< 20ppb
Al ( Aluminum )	max. 50ppb	< 50 ppb
Ba ( Barium )	max. 50 ppb	< 50 ppb
Bi ( Bismuth )	max. 100 ppb	< 100 ppb
Ca ( Calcium )	max. 200 ppb	< 200 ppb
Cd ( Cadmium )	max. 50 ppb	< 50 ppb
Co ( Cobalt )	max. 20 ppb	< 20 ppb
Cr ( Chromium )	max. 50 ppb	< 50 ppb
Cu ( Copper )	max. 20 ppb	< 20 ppb
Fe ( Iron )	max. 200 ppb	< 200 ppb
K ( Potassium )	max. 100 ppb	< 100 ppb
Li ( Lithium )	max. 20 ppb	< 20 ppb
Mg ( Magnesium )	max. 500 ppb	< 500 ppb
Mn ( Manganese )	max. 50 ppb	< 50 ppb
Mo ( Molybdenum )	max. 20 ppb	< 20 ppb
Na ( Sodium )	max. 500 ppb	< 500 ppb
Ni ( Nickel )	max. 50 ppb	< 50 ppb
Pb ( Lead )	max. 20 ppb	< 20 ppb
Sr ( Strontium )	max. 20 ppb	< 20 ppb
Tl ( Thallium )	max. 50 ppb	< 50 ppb
Zn ( Zinc )	max. 50 ppb	< 50 ppb
NH <sub>4</sub> <sup>+</sup> ( Ammonium )	max. 10 ppm	< 10 ppm
Cl ( Chloride )	max. 5 ppm	< 5 ppm
SO <sub>4</sub> ( Sulfate )	max. 5 ppm	< 5 ppm
SO <sub>3</sub> ( Sulfite )	max. 10 ppm	< 10 ppm
Suitability for the LC-MS	complying	complying
Appearance of the solution	complying	complying
Refractive Index ( n 20/D )	1.370 – 1.372	1.3712
Non-volatile matter	max. 20 ppm	< 20 ppm

L= 50mL

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