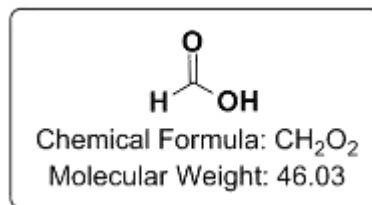




LCMS Grade Formic Acid

Product Numbers: 11202-10x1, 11202-25, 11202-custom

Product Information Bulletin



Product Background

Alternative Names: Formic acid, Methanoic acid, Formylic acid

CovaChem's LCMS grade Formic acid is a highly refined mobile phase additive. Formic acid is commonly used in LCMS and HPLC applications to lower the pH of the mobile phase to achieve consistent protonation states of the analytes, which is essential for good chromatography. The 1 mL ampules are well suited for easily and reproducibly creating a 0.1% formic acid solution in one liter of mobile phase. Formic acid is very soluble in water and nearly all organic solvents used in reverse phase liquid chromatography, allowing for preparation of 0.1% Formic acid solutions in both the aqueous and organic components of the mobile phase.

Formic acid is a weak ion pairing agent, making it an ideal candidate for LCMS applications. Therefore, Formic acid aides in protonation of chromatographic analytes, without causing the signal degradation, commonly caused by strong ion pairing agents.

General Protocol - Formic Acid Ampule Guidelines

1. Carefully snap the top off of the glass ampule with thumb or ampule snapper, and dispose of the glass top.
2. Remove the entire quantity with a pipette or syringe.
3. Add Formic acid to one liter of desired elution solvent to obtain a 0.1% solution.
4. Dispose of any unused reagent in accordance with local chemical disposal laws.

Product Description

Package Size and Product Numbers

10x1 mL..... 11202-10x1
25 mL..... 11202-25

Product Name: LCMS Grade Formic Acid

CAS Number:..... [64-18-6](#)

Product Specifications

- Visual: Clear, Colorless liquid
- Purity: $\geq 99\%$
- Evaporative Residue: $\leq 0.005\%$
- Color Test: ≤ 10 APHA
- Functional Assay: Passes
- Refractive Index: 1.3700 to 1.3720
- Infrared Spectroscopy: Conforms
- Chlorides (Cl): ≤ 5 ppm
- Sulfites (SO₃): ≤ 20 ppm
- Lead (Pb): ≤ 0.1 ppm
- Copper (Cu): ≤ 0.1 ppm
- Cadmium (Cd): ≤ 0.1 ppm
- Iron (Fe): ≤ 2 ppm

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