



Certificate of Analysis.

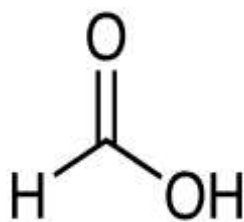
Formic Acid, eluent additive for LC-MS, ChromSolv[®].

Product code:	BS14159.
Description:	Formic Acid, eluent additive for LC-MS, ChromSolv[®].
Chemical Name:	Methanoic acid.
Pack:	100 ml.
CAS No.:	64-18-6.
Mol. Formula:	CH₂O₂.
Mol. Weight:	46.03 g/mol.
MDL Number:	MFCD00003297.
Auto ignition Temperature:	528 °C.
Boiling Point/Range:	100.4 °C (1.013 hPa).
Density:	1.22 g/cm³ (20 °C).
Incompatible Materials:	Alkalis, Amines, Strong oxidizing agents.
Lower Explosion Limit:	12 %(V) (42 °C).
Melting Point/Range:	4 °C.
Upper Explosion Limit:	38 %(V).
Vapour Pressure:	42 hPa (20 °C).
Viscosity:	1.72 mPa.s (20 °C).
pH-Value:	Acidic.
APHA colour:	Max. 15.
Vapour Density:	1.6 (vs air).
Refractive index (n 20/D):	1.370 - 1.372.
Non-volatile matter:	Max. 0.002 %.
Silver (Ag):	Max. 0.02 ppm.
Aluminium (Al):	Max. 0.05 ppm.
Barium (Ba):	Max. 0.05 ppm.
Bismuth (Bi):	Max. 0.1 ppm.
Calcium (Ca):	Max. 0.2 ppm.
Cadmium (Cd):	Max. 0.05 ppm.
Cobalt (Co):	Max. 0.02 ppm.
Chromium (Cr):	Max. 0.05 ppm.
Copper (Cu):	Max. 0.02 ppm.
Iron (Fe):	Max. 0.2 ppm.
Potassium (K):	Max. 0.1 ppm.
Lithium (Li):	Max. 0.02 ppm.
Magnesium (Mg):	Max. 0.5 ppm.
Manganese (Mn):	Max. 0.05 ppm.
Molybdenum (Mo):	Max. 0.02 ppm.



Sodium (Na):	Max. 0.5 ppm.
Nickel (Ni):	Max. 0.05 ppm.
Lead (Pb):	Max. 0.02 ppm.
Strontium (Sr):	Max. 0.02 ppm.
Thallium (Tl):	Max. 0.05 ppm.
Zinc (Zn):	Max. 0.05 ppm.
Ammonium (NH ₄):	Max. 10 ppm.
Chloride (Cl):	Max. 5 ppm.
Sulfate (SO ₄):	Max. 5 ppm.
Sulfite (SO ₃):	Max. 10 ppm.
Solubility:	Soluble in water.
Appearance:	Colorless clear liquid.
LC-MS Gradient Suitability:	Passes test.
Suitable for LC-MS (ESI positive):	Confirms.
Storage:	Store at Ambient temperature.
LOT NO.:	Sample.
Manufacture Date:	Lot specific.
Expiry Date:	5 years.
Purity:	>99.8 % (Lot specific).

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.




Dr. K. Deepti.
Technical Head.

