

|                      |                                |
|----------------------|--------------------------------|
| Material             | 450122M                        |
| Material description | Formic acid 98 %               |
| Grade                | ARISTAR                        |
| CAS Number           | 64-18-6                        |
| Molecular formula    | CH <sub>2</sub> O <sub>2</sub> |
| Molecular mass       | 46.03                          |

| Characteristics            | Specifications |
|----------------------------|----------------|
| Assay (acidimetric)        | ≥ 98.0 %       |
| Colour                     | ≤ 10 APHA      |
| Cl (Chloride)              | ≤ 5 ppm        |
| SO <sub>4</sub> (Sulphate) | ≤ 0.5 ppm      |
| Acetic acid                | ≤ 500 ppm      |
| Ag (Silver)                | ≤ 0.001 ppm    |
| Al (Aluminium)             | ≤ 0.005 ppm    |
| Au (Gold)                  | ≤ 0.005 ppm    |
| Ba (Barium)                | ≤ 0.002 ppm    |
| Be (Beryllium)             | ≤ 0.001 ppm    |
| Bi (Bismuth)               | ≤ 0.002 ppm    |
| Ca (Calcium)               | ≤ 0.05 ppm     |
| Cd (Cadmium)               | ≤ 0.001 ppm    |
| Co (Cobalt)                | ≤ 0.001 ppm    |
| Cr (Chromium)              | ≤ 0.001 ppm    |
| Cu (Copper)                | ≤ 0.002 ppm    |
| Fe (Iron)                  | ≤ 0.010 ppm    |
| Ga (Gallium)               | ≤ 0.005 ppm    |
| Hg (Mercury)               | ≤ 0.005 ppm    |
| In (Indium)                | ≤ 0.002 ppm    |
| K (Potassium)              | ≤ 0.02 ppm     |
| Li (Lithium)               | ≤ 0.001 ppm    |
| Mg (Magnesium)             | ≤ 0.01 ppm     |
| Mn (Manganese)             | ≤ 0.001 ppm    |
| Mo (Molybdenum)            | ≤ 0.001 ppm    |
| Na (Sodium)                | ≤ 0.02 ppm     |
| Ni (Nickel)                | ≤ 0.002 ppm    |
| Pb (Lead)                  | ≤ 0.002 ppm    |

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For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.



# Product Specification



| Characteristics     | Specifications   |
|---------------------|------------------|
| Sn (Tin)            | $\leq 0.001$ ppm |
| Sr (Strontium)      | $\leq 0.001$ ppm |
| Ti (Titanium)       | $\leq 0.001$ ppm |
| Tl (Thallium)       | $\leq 0.001$ ppm |
| V (Vanadium)        | $\leq 0.001$ ppm |
| Zn (Zinc)           | $\leq 0.005$ ppm |
| Non-volatile matter | $\leq 2$ ppm     |

## Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

VWR International

