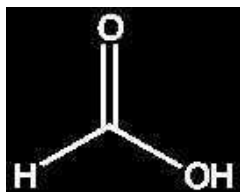


## FORMIC ACID, 98 - 100%



- Synonyms: Methanoic acid, Formylic acid
- HCOOH
- M = 46,03 g/mol
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- Density: 1,22 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: - 8 °C
- Boiling point: 101 °C
- Flash pt. 48 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 42 hPa
- Refraction index: (n 20 °C/D) 1,3714
- Dielectric const.: (16 °C) 58,5
- LD 50 (oral, rat): 730 mg/kg
- EC-Index-No.: 607-001-00-0
- ADR: 8 CF1 II UN 1779
- IMDG: 8 II UN 1779
- IATA/ICAO: 8 II UN 1779
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

### AC1086 Formic acid, 98 - 100%, EssentQ®



assay (acidimetric) . . . . .min. 98 %  
 appearance of solution . . . . .passes test  
 chlorides (Cl) . . . . .max. 0,001 %  
 sulfates (SO<sub>4</sub>) . . . . .max. 0,004 %  
 sulfites (SO<sub>3</sub>) . . . . .max. 0,002 %  
 arsenic (As) . . . . .max. 3 ppm  
 ammonium (NH<sub>4</sub>) . . . . .max. 0,01 %  
 copper (Cu) . . . . .max. 0,002 %  
 heavy metals (as Pb) . . . . .max. 5 ppm

iron (Fe) . . . . .max. 0,001 %  
 lead (Pb) . . . . .max. 0,001 %  
 nickel (Ni) . . . . .max. 0,001 %  
 zinc (Zn) . . . . .max. 0,002 %  
 acetic acid (CH<sub>3</sub>COOH) . . . . .max. 0,4 %  
 oxalic acid (C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>) . . . . .max. 0,01 %  
 aldehydes . . . . .passes test  
 formaldehyde (HCHO) . . . . .max. 0,1 %  
 residue on evaporation . . . . .max. 0,005 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| AC10861000 | 1 l    | 0         |
| AC10862500 | 2,5 l  | 0         |
| AC1086005P | 5 l    | 0         |

### AC1085 Formic acid, 98 - 100%, ExpertQ®, for analysis, ACS, Reag. Ph Eur



assay (acidimetric) . . . . .min. 98 %  
 colour (Hazen) . . . . .max. 10  
 density (20°/20°) . . . . .1,217 - 1,223  
 acetic acid (CH<sub>3</sub>COOH) . . . . .max. 0,05 %  
 dilution test . . . . .passes test  
 chlorides (Cl) . . . . .max. 0,0005 %  
 sulfates (SO<sub>4</sub>) . . . . .max. 0,0005 %  
 sulfites (SO<sub>3</sub>) . . . . .passes test  
 aluminium (Al) . . . . .max. 0,05 ppm  
 ammonium (NH<sub>4</sub>) . . . . .max. 0,001 %  
 barium (Ba) . . . . .max. 0,05 ppm  
 beryllium (Be) . . . . .max. 0,02 ppm  
 bismuth (Bi) . . . . .max. 0,1 ppm  
 cadmium (Cd) . . . . .max. 0,05 ppm  
 calcium (Ca) . . . . .max. 0,2 ppm  
 chromium (Cr) . . . . .max. 0,05 ppm  
 cobalt (Co) . . . . .max. 0,02 ppm  
 copper (Cu) . . . . .max. 0,02 ppm  
 germanium (Ge) . . . . .max. 0,05 ppm

heavy metals (as Pb) . . . . .max. 0,001 %  
 iron (Fe) . . . . .max. 2 ppm  
 lead (Pb) . . . . .max. 0,02 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  
 nickel (Ni) . . . . .max. 0,05 ppm  
 potassium (K) . . . . .max. 0,1 ppm  
 silver (Ag) . . . . .max. 0,02 ppm  
 sodium (Na) . . . . .max. 0,5 ppm  
 strontium (Sr) . . . . .max. 0,02 ppm  
 thallium (Tl) . . . . .max. 0,05 ppm  
 titanium (Ti) . . . . .max. 0,1 ppm  
 vanadium (V) . . . . .max. 0,05 ppm  
 zinc (Zn) . . . . .max. 0,05 ppm  
 zirconium (Zr) . . . . .max. 0,1 ppm  
 residue on evaporation . . . . .max. 0,001 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| AC10851000 | 1 l    | 0         |
| AC10852500 | 2,5 l  | 0         |
| AC1085005P | 5 l    | 0         |

### AC1076 Formic acid, eluent additive for LC-MS



assay (acidimetric) . . . . .98 - 100 %  
 aluminium (Al) . . . . .max. 0,05 ppm  
 barium (Ba) . . . . .max. 0,05 ppm  
 cadmium (Cd) . . . . .max. 0,05 ppm  
 calcium (Ca) . . . . .max. 0,2 ppm  
 chromium (Cr) . . . . .max. 0,05 ppm  
 cobalt (Co) . . . . .max. 0,05 ppm  
 copper (Cu) . . . . .max. 0,05 ppm  
 iron (Fe) . . . . .max. 0,2 ppm  
 lead (Pb) . . . . .max. 0,05 ppm  
 lithium (Li) . . . . .max. 0,05 ppm

magnesium (Mg) . . . . .max. 0,5 ppm  
 manganese (Mn) . . . . .max. 0,05 ppm  
 nickel (Ni) . . . . .max. 0,05 ppm  
 molybdenum (Mo) . . . . .max. 0,05 ppm  
 potassium (K) . . . . .max. 0,1 ppm  
 silver (Ag) . . . . .max. 0,05 ppm  
 sodium (Na) . . . . .max. 0,5 ppm  
 strontium (Sr) . . . . .max. 0,05 ppm  
 thallium (Tl) . . . . .max. 0,05 ppm  
 zinc (Zn) . . . . .max. 0,05 ppm  
 suitability for use in LC-MS . . . . .passes test

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| AC10760050 | 50 ml  | 0         |
| AC10760100 | 100 ml | 0         |

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
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O  
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Q  
R  
S  
T  
U  
V  
W  
X  
Y  
Z