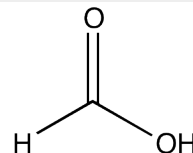


# Formic acid, 98 - 100%, EssentQ®

## Identification

HCOOH  
M = 46,03 g/mol  
CAS [64-18-6]  
EC number: 200-579-1  
Taric code: 2915 11 00



## Synonyms

Methanoic acid, Formylic acid

## Applications

analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

## Specifications

|                                  |              |                                                                  |              |
|----------------------------------|--------------|------------------------------------------------------------------|--------------|
| assay (acidimetric).....         | min. 98 %    | iron (Fe).....                                                   | max. 0,001 % |
| appearance of solution.....      | passes test  | lead (Pb).....                                                   | max. 0,001 % |
| chlorides (Cl).....              | max. 0,001 % | nickel (Ni).....                                                 | max. 0,001 % |
| sulfates (SO <sub>4</sub> )..... | max. 0,004 % | zinc (Zn).....                                                   | max. 0,002 % |
| sulfites (SO <sub>3</sub> )..... | max. 0,002 % | acetic acid (CH <sub>3</sub> COOH).....                          | max. 0,4 %   |
| arsenic (As).....                | max. 3 ppm   | oxalic acid (C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> )..... | max. 0,01 %  |
| ammonium (NH <sub>4</sub> )..... | max. 0,01 %  | aldehydes.....                                                   | passes test  |
| copper (Cu).....                 | max. 0,002 % | formaldehyde (HCHO).....                                         | max. 0,1 %   |
| heavy metals (as Pb).....        | max. 5 ppm   | residue on evaporation.....                                      | max. 0,005 % |

## Physical data

- Density: 1,22 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: ~ 8 °C
- Boiling point: 101 °C
- Flash point: 48 °C
- Ignition temperature: 480 °C
- Vapour pressure: (20 °C) 42 hPa
- Refraction index: (n 20 °C/D) 1,3714
- Dielectric const.: (16 °C) 58,5
- Evap. heat: (101 °C) 900 KJ/kg
- Saturation conc.: (20 °C) 80 g/m<sup>3</sup>
- Expl. limit (upper): 38 Vol%
- Expl. limit (lower): 12 Vol%
- pH(10 g/l H<sub>2</sub>O, 20 °C) 2,2

## Safety - GHS

Signal Word: Danger

### Hazard Statements:

- H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H331: Toxic if inhaled.  
H314: Causes severe skin burns and eye damage.



### Precautionary Statements:

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

## Transport/storage

- ADR: 8 CF1 II • UN 1779 • FORMIC ACID
- IMDG: 8 II • UN 1779 • FORMIC ACID
- IATA/ICAO: 8 II • UN 1779 • FORMIC ACID
- PAX: 851
- CAO: 855
- 10°C - 30°C