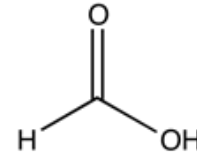


## Formic acid, 98 - 100%, EssentQ®

**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