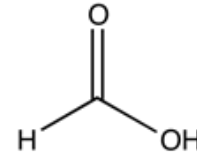


## Formic acid, solution 85% w/w, for analysis, ExpertQ®

**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. 85 %	copper (Cu).....	max. 0,02 ppm
colour (Hazen).....	max. 10	heavy metals (as Pb).....	max. 0,0005 %
acetic acid (CH <sub>3</sub> COOH).....	max. 0,4 %	iron (Fe).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,001 %	lead (Pb).....	max. 0,02 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,002 %	lithium (Li).....	max. 0,02 ppm
sulfites (SO <sub>3</sub> ).....	max. 0,001 %	magnesium (Mg).....	max. 0,5 ppm
aluminium (Al).....	max. 0,05 ppm	manganese (Mn).....	max. 0,05 ppm
ammonium (NH <sub>4</sub> ).....	max. 0,005 %	nickel (Ni).....	max. 0,05 ppm
barium (Ba).....	max. 0,05 ppm	potassium (K).....	max. 0,1 ppm
cadmium (Cd).....	max. 0,05 ppm	silver (Ag).....	max. 0,02 ppm
calcium (Ca).....	max. 0,5 ppm	sodium (Na).....	max. 1 ppm
chromium (Cr).....	max. 0,02 ppm	zinc (Zn).....	max. 0,05 ppm
		residue on evaporation.....	max. 0,002 %

**Physical data**

- Density: ~ 1,2 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: ~ -9 °C
- Boiling point: ~ 107 °C
- Flash point: 69 °C
- Expl. limit (upper): 45,5 Vol%
- Expl. limit (lower): 10 Vol%
- pH < 1

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

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

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
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.  
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