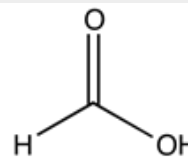


**Identification**

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 %	germanium (Ge).....	max. 0,05 ppm
colour (Hazen).....	max. 10	heavy metals (as Pb).....	max. 0,001 %
density (20°/20°).....	1,217 - 1,223	iron (Fe).....	max. 2 ppm
acetic acid (CH <sub>3</sub> COOH).....	max. 0,05 %	lead (Pb).....	max. 0,02 ppm
dilution test.....	passes test	lithium (Li).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,0005 %	magnesium (Mg).....	max. 0,5 ppm
sulfates (SO <sub>4</sub> ).....	max. 0,0005 %	manganese (Mn).....	max. 0,05 ppm
sulfites (SO <sub>3</sub> ).....	passes test	molybdenum (Mo).....	max. 0,02 ppm
aluminium (Al).....	max. 0,05 ppm	nickel (Ni).....	max. 0,05 ppm
ammonium (NH <sub>4</sub> ).....	max. 0,001 %	potassium (K).....	max. 0,1 ppm
barium (Ba).....	max. 0,05 ppm	silver (Ag).....	max. 0,02 ppm
beryllium (Be).....	max. 0,02 ppm	sodium (Na).....	max. 0,5 ppm
bismuth (Bi).....	max. 0,1 ppm	strontium (Sr).....	max. 0,02 ppm
cadmium (Cd).....	max. 0,05 ppm	thallium (Tl).....	max. 0,05 ppm
calcium (Ca).....	max. 0,2 ppm	titanium (Ti).....	max. 0,1 ppm
chromium (Cr).....	max. 0,05 ppm	vanadium (V).....	max. 0,05 ppm
cobalt (Co).....	max. 0,02 ppm	zinc (Zn).....	max. 0,05 ppm
copper (Cu).....	max. 0,02 ppm	zirconium (Zr).....	max. 0,1 ppm
		residue on evaporation.....	max. 0,001 %

**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