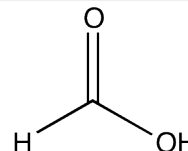


**Identification**

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 %	heavy metals (as Pb).....	max. 0,001 %
colour (Hazen).....	max. 10	iron (Fe).....	max. 0,0002 %
density (20°/20°).....	1,217 - 1,223	lead (Pb).....	max. 0,000002 %
acetic acid (CH <sub>3</sub> COOH).....	max. 0,05 %	lithium (Li).....	max. 0,000002 %
dilution test.....	passes test	magnesium (Mg).....	max. 0,00005 %
chlorides (Cl).....	max. 0,0005 %	manganese (Mn).....	max. 0,000005 %
sulfates (SO <sub>4</sub> ).....	max. 0,0005 %	molybdenum (Mo).....	max. 0,000002 %
sulfites (SO <sub>3</sub> ).....	passes test	nickel (Ni).....	max. 0,000005 %
aluminium (Al).....	max. 0,000005 %	potassium (K).....	max. 0,00001 %
ammonium (NH <sub>4</sub> ).....	max. 0,001 %	silver (Ag).....	max. 0,000002 %
barium (Ba).....	max. 0,000005 %	sodium (Na).....	max. 0,00005 %
beryllium (Be).....	max. 0,000002 %	strontium (Sr).....	max. 0,000002 %
bismuth (Bi).....	max. 0,00001 %	thallium (Tl).....	max. 0,000005 %
cadmium (Cd).....	max. 0,000005 %	titanium (Ti).....	max. 0,00001 %
calcium (Ca).....	max. 0,00002 %	vanadium (V).....	max. 0,000005 %
chromium (Cr).....	max. 0,000005 %	zinc (Zn).....	max. 0,000005 %
cobalt (Co).....	max. 0,000002 %	zirconium (Zr).....	max. 0,00001 %
copper (Cu).....	max. 0,000002 %	residue on evaporation.....	max. 0,001 %
germanium (Ge).....	max. 0,000005 %		

**Packaging**
**Packaging Code**

- 1 |  AC10851000
- 2,5 |  AC10852500
- 5 |  AC1085005P
- 25 |  AC1085025P

**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:**

- H314: Causes severe skin burns and eye damage.
- H226: Flammable liquid and vapour.


**Precautionary Statements:**

- P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
- P241: Use explosion-proof electrical / ventilating / lighting / equipment.
- 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.
- P405: Store locked up.
- P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 730 mg/kg
- MAK: 5 ml/m<sup>3</sup>, 9,5 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 3

**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: 808
- CAO: 812
- Store between 15°C and 25°C