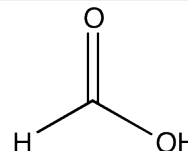


Identification

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 ₄).....	max. 0,004 %	zinc (Zn).....	max. 0,002 %
sulfites (SO ₃).....	max. 0,002 %	acetic acid (CH ₃ COOH).....	max. 0,4 %
arsenic (As).....	max. 0,0003 %	oxalic acid (C ₂ H ₂ O ₄).....	max. 0,01 %
ammonium (NH ₄).....	max. 0,01 %	aldehydes.....	passes test
copper (Cu).....	max. 0,002 %	formaldehyde (HCHO).....	max. 0,1 %
heavy metals (as Pb).....	max. 0,0005 %	residue on evaporation.....	max. 0,005 %

Packaging
Packaging Code

- 1 l  AC10861000
- 2,5 l  AC10862500
- 5 l  AC1086005P
- 25 l  AC1086025P

Physical data

- Density: 1,22 g/cm³
- 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/m³
- Expl. limit (upper): 38 Vol%
- Expl. limit (lower): 12 Vol%
- pH(10 g/l H₂O, 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/m³, 9,5 mg/m³
- 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