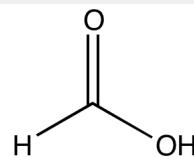


Identification

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. 2 ppm |
| density (20°/20°)..... | 1,217 - 1.223 | lead (Pb)..... | max. 0,02 ppm |
| acetic acid (CH ₃ COOH)..... | max. 0,05 % | lithium (Li)..... | max. 0,02 ppm |
| dilution test..... | passes test | magnesium (Mg)..... | max. 0,5 ppm |
| chlorides (Cl)..... | max. 0,0005 % | manganese (Mn)..... | max. 0,05 ppm |
| sulfates (SO ₄)..... | max. 0,0005 % | molybdenum (Mo)..... | max. 0,02 ppm |
| sulfites (SO ₃) | passes test | nickel (Ni)..... | max. 0,05 ppm |
| aluminium (Al)..... | max. 0,05 ppm | potassium (K)..... | max. 0,1 ppm |
| ammonium (NH ₄)..... | max. 0,001 % | silver (Ag)..... | max. 0,02 ppm |
| barium (Ba)..... | max. 0,05 ppm | sodium (Na)..... | max. 0,5 ppm |
| beryllium (Be)..... | max. 0,02 ppm | strontium (Sr) | max. 0,02 ppm |
| bismuth (Bi)..... | max. 0,1 ppm | thallium (Tl)..... | max. 0,05 ppm |
| cadmium (Cd)..... | max. 0,05 ppm | titanium (Ti)..... | max. 0,1 ppm |
| calcium (Ca)..... | max. 0,2 ppm | vanadium (V)..... | max. 0,05 ppm |
| chromium (Cr)..... | max. 0,05 ppm | zinc (Zn)..... | max. 0,05 ppm |
| cobalt (Co)..... | max. 0,02 ppm | zirconium (Zr)..... | max. 0,1 ppm |
| copper (Cu)..... | max. 0,02 ppm | residue on evaporation..... | max. 0,001 % |
| germanium (Ge)..... | max. 0,05 ppm | | |

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: 851
- CAO: 855
- Store between 15°C and 25°C