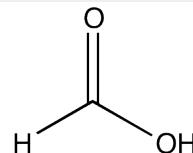


Formic acid, solution 90,1% ± 0,1% w/w, for analysis, ExpertQ®

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).....	90,0 - 90,2 %	iron (Fe).....	max. 2 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,02 ppm
acetic acid (CH ₃ COOH).....	max. 0,05 %	lithium (Li).....	max. 0,02 ppm
chlorides (Cl).....	max. 0,0005 %	magnesium (Mg).....	max. 0,5 ppm
sulfates (SO ₄).....	max. 0,0005 %	manganese (Mn).....	max. 0,05 ppm
sulfites (SO ₃).....	max. 0,001 %	molybdenum (Mo).....	max. 0,02 ppm
aluminium (Al).....	max. 0,05 ppm	nickel (Ni).....	max. 0,05 ppm
ammonium (NH ₄).....	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
germanium (Ge).....	max. 0,05 ppm	dilution test.....	passes test
heavy metals (as Pb).....	max. 5 ppm	residue on evaporation.....	max. 0,001 %

Physical data

- Density: ~ 1,2 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -9 °C
- Boiling point: 107 °C
- Flash point: 60 °C
- Ignition temperature: 485 °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.
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.



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