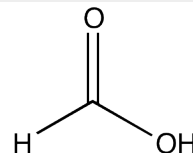


Formic acid, eluent additive for LC-MS

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

Specifications

assay (acidimetric)..... 98 - 100 %
aluminium (Al)..... max. 0,05 ppm
barium (Ba)..... max. 0,05 ppm
cadmium (Cd)..... max. 0,05 ppm
calcium (Ca)..... max. 0,2 ppm
chromium (Cr)..... max. 0,05 ppm
cobalt (Co)..... max. 0,05 ppm
copper (Cu)..... max. 0,05 ppm
iron (Fe)..... max. 0,2 ppm
lead (Pb)..... max. 0,05 ppm
lithium (Li)..... max. 0,05 ppm
magnesium (Mg)..... max. 0,5 ppm

manganese (Mn)..... max. 0,05 ppm
nickel (Ni)..... max. 0,05 ppm
molybdenum (Mo)..... max. 0,05 ppm
potassium (K)..... max. 0,1 ppm
silver (Ag)..... max. 0,05 ppm
sodium (Na)..... max. 0,5 ppm
strontium (Sr)..... max. 0,05 ppm
thallium (Tl)..... max. 0,05 ppm
zinc (Zn)..... max. 0,05 ppm

suitability for use in LC-MS..... passes test

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:

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