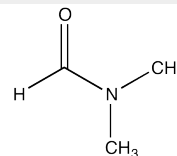


Identification

C_3H_7NO
 M = 73,10 g/mol
 CAS [68-12-2]
 EC number: 200-679-5
 Taric code: 2924 19 00


Synonyms

DMF, Formic acid dimethylamide






Applications

solvents, synthesis of organic products.

Specifications

assay (G.C.).....	min. 99,9 %	tin (Sn).....	max. 0,00001 %
identity (IR-spectrum).....	passes test	zinc (Zn).....	max. 0,000001 %
density (20°/4°).....	0,948 - 0,950	residue on evaporation.....	max. 0,0002 %
appearance.....	clear	water (K.F.).....	max. 0,05 %
colour (Hazen).....	max. 10		
acidity.....	max. 0,0005 meq/g	liquid chromatography suitability	
alkalinity.....	max. 0,003 meq/g	absorbance.....	passes test
aluminium (Al).....	max. 0,00001 %		
barium (Ba).....	max. 0,000001 %	min. transmission/max. absorbance	
boron (B).....	max. 0,000002 %	in a 1,0 cm cell at	
cadmium (Cd).....	max. 0,000001 %	wavelength:	T(%) A (AU)
calcium (Ca).....	max. 0,00003 %	268 nm.....	15 % 0,824 AU
chromium (Cr).....	max. 0,000002 %	275 nm.....	50 % 0,301 AU
cobalt (Co).....	max. 0,000002 %	290 nm.....	80 % 0,097 AU
copper (Cu).....	max. 0,000002 %	300 nm.....	90 % 0,046 AU
iron (Fe).....	max. 0,000002 %	330 nm.....	98 % 0,009 AU
lead (Pb).....	max. 0,00001 %		
magnesium (Mg).....	max. 0,00001 %	Microfiltered through membranes	
manganese (Mn).....	max. 0,000001 %	of pore diameter 0,22 µm	
nickel (Ni).....	max. 0,000002 %		

Packaging
Packaging Code

1 l  DI10721000
 2,5 l  DI10722500
 4 l  DI10724000
 20 l  DI1072020S
 25 l  DI1072025S

Physical data

- Density: 0,94 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -61 °C
- Boiling point: 153 °C
- Flash point: 58 °C
- Ignition temperature: 410 °C
- Vapour pressure: (20 °C) 3,77 hPa
- Refraction index: (n 20 °C/D) 1,4305
- Viscosity: (20 °C) 0,8 mPas
- Dipolar moment: (20 °C) 3,8 Debye
- Dielectric const.: (20 °C) 36,7
- Saturation conc.: (20 °C) 12 g/m³
- Expl. limit (upper): 16 Vol%
- Expl. limit (lower): 2,2 Vol%
- pH(200 g/l H₂O, 20 °C) 7
- Hygroscopic

Safety - GHS**Signal Word:** Danger**Hazard Statements:**

H360D: May damage the unborn child.
H226: Flammable liquid and vapour.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H319: Causes serious eye irritation.

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): 2800 mg/kg
- MAK: 10 ml/m³, 30 mg/m³
- WGK: 1
- Poison class CH (Swiss): 3

Transport/storage

- ADR: 3 F1 III • UN 2265 • N,N-DIMETHYL-FORMAMIDE
- IMDG: 3 III • UN 2265 • N,N-DIMETHYLFORMAMIDE
- IATA/ICAO: 3 III • UN 2265 • N,N-DIMETHYLFORMAMIDE
- PAX: 309
- CAO: 310
- Store between 15°C and 25°C