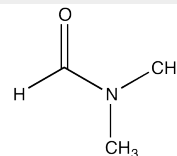


**Identification**

$C_3H_7NO$   
 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. 99,99 %  
 refractive index n<sub>20</sub>/D..... 1,430 - 1,440  
 water (K.F.)..... max. 0,03 %

Packed under inert gas

Suitable for residual solvents

analysis

Residual solvents are analysed

according to guideline

CPMP/ICH/283/95.

Class 1 solvents excluded

by production process

Class 2 and class 3 solvents likely

to be present below following limits

dichloromethane.....	0,6 mg/l
tert-Butyl methyl ether.....	1 mg/l
acetone .....	1 mg/l
methanol .....	1 mg/l
tetrahydrofuran.....	0,7 mg/l
n-Hexane.....	0,3 mg/l
ethyl acetate.....	1 mg/l
ethanol.....	1 mg/l
cyclohexane.....	1 mg/l
acetonitrile.....	0,4 mg/l
2-propanol.....	1 mg/l
isopropyl acetate.....	1 mg/l
n-Propanol.....	1 mg/l
n-Heptane.....	1 mg/l
methylcyclohexane.....	1 mg/l
1,4-Dioxane.....	0,4 mg/l
toluene.....	0,9 mg/l
pyridine.....	1 mg/l
n-Butanol.....	1 mg/l
butyl acetate.....	1 mg/l
ethylbenzene.....	1 mg/l
p-Xylene.....	1 mg/l
m-Xylene.....	1 mg/l
o-Xylene.....	1 mg/l
benzene (G.C.).....	absence

**Packaging**
**Packaging Code**

DI107410 ☐ DI10741000

DI107410 ☐ DI10741000

**Physical data**

- Density: 0,94 g/cm<sup>3</sup>
- 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<sub>20</sub> °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/m<sup>3</sup>
- Expl. limit (upper): 16 Vol%
- Expl. limit (lower): 2,2 Vol%
- pH(200 g/l H<sub>2</sub>O, 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/m<sup>3</sup>, 30 mg/m<sup>3</sup>

• 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