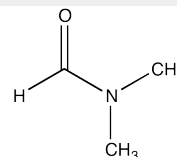


N,N-Dimethylformamide, GC head space grade

Identification

C₃H₇NO
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 %
refractive index n₂₀/D..... 1,430 - 1,440
water (K.F.)..... max. 0,03 %

Packed under inert gas

Suitable for residual solvents analysis according to guideline CPMP/ICH/283/95, Ph Eur and USP.

Class 1 according to ICH less than 0,5 ppm.

benzene (G.C.)..... absence of peak

Class 2 and class 3 solvents

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
Other class 2 solvents..... max. 10 mg/L
Other class 3 solvents..... max. 50 mg/L

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: (n₂₀ °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:

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



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.
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: 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: 355
- CAO: 366
- 10°C - 30°C