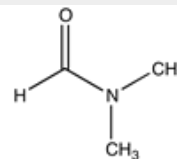


**N,N-Dimethylformamide, for analysis, ExpertQ®, ACS, ISO, Reag. Ph  
Eur****Identification**

C<sub>3</sub>H<sub>7</sub>NO  
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. 99,8 %	calcium (Ca).....	max. 0,5 ppm
identity (IR-spectrum).....	passes test	chromium (Cr).....	max. 0,02 ppm
density (20°/4°).....	0,948 - 0,950	cobalt (Co).....	max. 0,02 ppm
density (20°/20°).....	0,949 - 0,952	copper (Cu).....	max. 0,02 ppm
appearance.....	clear	iron (Fe).....	max. 0,1 ppm
colour (Hazen).....	max. 10	lead (Pb).....	max. 0,1 ppm
boiling point.....	152 - 154 °C	magnesium (Mg).....	max. 0,1 ppm
acidity.....	max. 0,0005 meq/g	manganese (Mn).....	max. 0,02 ppm
alkalinity.....	max. 0,003 meq/g	nickel (Ni).....	max. 0,02 ppm
aluminium (Al).....	max. 0,5 ppm	tin (Sn).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	zinc (Zn).....	max. 0,1 ppm
boron (B).....	max. 0,02 ppm	residue on evaporation.....	max. 0,001 %
cadmium (Cd).....	max. 0,05 ppm	water (K.F.).....	max. 0,1 %

**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 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/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:**

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