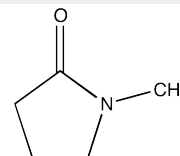


**Identification**

$C_5H_9NO$   
 M = 99,13 g/mol  
 CAS [872-50-4]  
 EC number: 212-828-1  
 Taric code: 2933 79 00


**Synonyms**

N-Methylpyrrolidone, N-Methyl-2-pyrrolidinone, NMP

**Specifications**

assay (G.C.)..... min. 99,99 %  
 refractive index n<sub>20</sub>/D..... 1,468 - 1,471  
 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**

ME05031  ME05031000

**Physical data**

- Density: 1,03 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: -24 °C
- Boiling point: 202 °C
- Flash point: 91 °C
- Ignition temperature: 245 °C
- Vapour pressure: (20 °C) 0,32 hPa
- Refraction index: (n<sub>20</sub> °C/D) 1,4684
- Viscosity: (20 °C) 1,67 mPas
- Dipolar moment: (20 °C) 4,1 Debye
- Dielectric const.: (25 °C) 33
- Expl. limit (upper): 9,5 Vol%
- Expl. limit (lower): 1,3 Vol%
- pH(100 g/l H<sub>2</sub>O, 20 °C) 8,5 - 10,0

**1-Methyl-2-pyrrolidone, GC head space grade****Safety - GHS****Signal Word:** Danger**Hazard Statements:**

H360D: May damage the unborn child.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**Precautionary Statements:**

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see on this label).

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Toxicological data**

- LD 50 (oral, rat): 3598 mg/kg
- MAK: 19 ml/m<sup>3</sup>, 80 mg/m<sup>3</sup>
- WGK: 1
- Poison class CH (Swiss): 5

**Transport/storage**

- Store between 15°C and 25°C