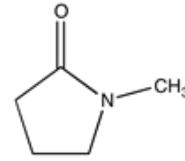


**1-Methyl-2-pyrrolidone, Pharmpur®, Ph Eur, BP****Identification**

C<sub>5</sub>H<sub>9</sub>NO  
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

**Applications**

analytical chemistry, chromatography, synthesis of organic products, in pharma industry.

**Specifications**

identity (IR-spectrum).....	passes test	impurity D.....	max. 0,1 %
appearance of solution.....	clear and colourless	impurity E.....	max. 0,1 %
alkalinity.....	passes test	impurity F.....	max. 0,1 %
Related substances:		impurity G.....	max. 0,1 %
impurity A.....	max. 0,1 %	impurity H.....	max. 0,1 %
impurity B.....	max. 0,1 %	impurity I.....	max. 0,1 %
impurity C.....	max. 0,1 %	total impurities.....	max. 0,3 %
		water (K.F.).....	max. 0,1 %

**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 20 °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

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

- H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H360D: May damage the unborn child.  
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.

**Transport/storage**

- 10°C - 30°C