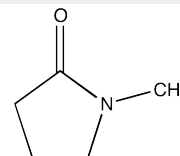


Identification

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

Applications

analytical chemistry, chromatography, synthesis of organic products.

Specifications

assay (G.C.).....	min. 99,5 %	cobalt (Co).....	max. 0,000002 %
identity (IR-spectrum).....	passes test	copper (Cu).....	max. 0,000002 %
density (20°/4°).....	1,031 - 1,034	iron (Fe).....	max. 0,00001 %
colour (Hazen).....	max. 50	lead (Pb).....	max. 0,00001 %
free alkali (as CH ₃ NH ₂).....	max. 0,01 %	magnesium (Mg).....	max. 0,00001 %
chlorides (Cl).....	max. 0,0001 %	manganese (Mn).....	max. 0,000002 %
aluminium (Al).....	max. 0,00005 %	nickel (Ni).....	max. 0,000002 %
barium (Ba).....	max. 0,00001 %	tin (Sn).....	max. 0,00001 %
boron (B).....	max. 0,000002 %	zinc (Zn).....	max. 0,00001 %
cadmium (Cd).....	max. 0,000005 %	residue on ignition.....	max. 0,0005 %
calcium (Ca).....	max. 0,00005 %	water (K.F.).....	max. 0,05 %
chromium (Cr).....	max. 0,000002 %		

Packaging
Packaging Code

5  5
 5  5
 5  5

Physical data

- Density: 1,03 g/cm³
- 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 H₂O, 20 °C) 8,5 - 10,0

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/m³, 80 mg/m³
- WGK: 1
- Poison class CH (Swiss): 5

Transport/storage

- Store between 15°C and 25°C