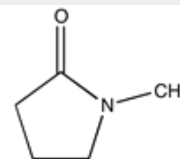


1-Methyl-2-pyrrolidone, GC head space grade
Identification

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. 99,8 % | ethyl acetate..... | 1 mg/l |
| refractive index n ₂₀ /D..... | 1,468 - 1,471 | ethanol..... | 1 mg/l |
| water (K.F.)..... | max. 0,05 % | cyclohexane..... | 1 mg/l |
| | | acetonitrile..... | 0,4 mg/l |
| Packed under inert gas | | 2-propanol..... | 1 mg/l |
| Suitable for residual solvents | | isopropyl acetate..... | 1 mg/l |
| analysis according to guideline | | n-Propanol..... | 1 mg/l |
| CPMP/ICH/283/95, Ph Eur | | n-Heptane..... | 1 mg/l |
| and USP. | | methylcyclohexane..... | 1 mg/l |
| Class 1 according to ICH | | 1,4-Dioxane..... | 0,4 mg/l |
| less than 0,5 ppm. | | toluene..... | 0,9 mg/l |
| benzene (G.C.)..... | absence of peak | pyridine..... | 1 mg/l |
| Class 2 and class 3 solvents | | n-butanol..... | 1 mg/l |
| dichloromethane..... | 0,6 mg/l | butyl acetate..... | 1 mg/l |
| tert-Butyl methyl ether..... | 1 mg/l | ethylbenzene..... | 1 mg/l |
| acetone..... | 1 mg/l | p-Xylene..... | 1 mg/l |
| methanol..... | 1 mg/l | m-Xylene..... | 1 mg/l |
| tetrahydrofuran..... | 0,7 mg/l | o-Xylene..... | 1 mg/l |
| n-Hexane..... | 0,3 mg/l | Other class 2 solvents..... | max. 10 mg/L |
| | | Other class 3 solvents..... | max. 50 mg/L |

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: (n₂₀ °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:

- 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.



ME0503

Technical Data Sheet

1-Methyl-2-pyrrolidone, GC head space grade

Transport/storage

- 10°C - 30°C