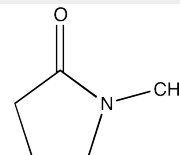


1-Methyl-2-pyrrolidone, GC head space grade

Identification

C₅H₉NO
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 %
refractive index n₂₀/D.....1,468 - 1,471
water (K.F.).....max. 0,05 %

Packed under inert gas
Suitable for residual solvents
analysis according to guideline
CPMP/ICH/283/95, Ph Eur
and USP.
Class 1 according to ICH
less than 0,5 ppm.
benzene (G.C.).....absence of peak
Class 2 and class 3 solvents
dichloromethane.....0,6 mg/l
tert-Butyl methyl ether.....1 mg/l
acetone1 mg/l
methanol1 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
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.

Transport/storage

- 10°C - 30°C