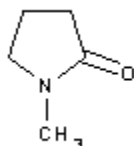


PRODUCT CODE: 143080

1-Methyl-2-Pyrrolidone (BP, Ph. Eur., USP-NF) pure, pharma grade

C₅H₉NO

C₅H₉NO



M.= 99,13

CAS [872-50-4]

EINECS 212-828-1

TARIC 2933 79 00 90

SYNONYMS: N-Methylpyrrolidone, NMP

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • Hygroscopic • D 20/4 1,033 • M.P.: -23 °C • B.P.: 202 °C • pH 8,5 - 10,0 • n₂₀/D : 1,4684 • Flash P.: 95 °C • Ign. T.: 269 °C • Vap. press. (100 °C) 40 hPa • Viscosity 20 °C 1,67 mPa.s • D. M. 20 °C 4,1 Debye • Dielec. constant 25 °C 33 • Expl. limit 1,3 % (V) 9,5 % (V) •

BIBLIOGRAPHY: Merck Index **13**, 6.140 Sax **MPB**750 • Safety **2**, **2433 A** • Kühn-Birett **M** 34 • Ullmann **(5.)**2 , 182 • Beilstein **21**, **237 II**, **213 III/IV**, **3145 V**, **321** • BRN 106420 • Fieser 1696 2281 9316 11346 • ACS **XI** • BP. **2025** • Ph. Eur. **10.0** (2019) **11.0** (2023) •

HAZARDOUS: C.E: 606-021-00-7 • RTECS: UY 5790000 • LD50 oral rat 3.914 mg/kg • LC50 rat 5.1mg/l / 4h • LD50 skn rbt 8.000 mg/kg • LD50 ipr mus 3.050 mg/kg VLA-EC 75 ppm309 mg/m3 VLA-ED 25 ppm103 mg/m3



H: H360D • H319 • H335 • H315 • H331 •

P: P201 • P202 • P261 • P264 • P271 • P280 • P281 • P302+P352 • P304+P340 • P305+P351+P338 • P308+P313 • P312 • P321 • P332+P313 • P337+P313 • P362 • P403+P233 • P405 • P501 •

WEIGHT/VOLUME INFORMATION: 1l–1,033 kg 1kg–0,968 l

OBSERVATIONS: Storage away from direct light. •

SPECIFICATIONS:

Minimum assay (G.C.)	99,5%
Identity :	
Identity according to Pharmacopoeias:	passes test

Maximum limit of impurities

Appearance	passes test
Alkalinity	passes test
Related substances:	
Any impurity	0,1 %
Total impurities	0,3 %
Residual solvents (Ph.Eur.)	passes test
Water (H ₂ O)	0,1 %

Elemental impurities (ICH Q3D):

Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm

Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B	
Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm