



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

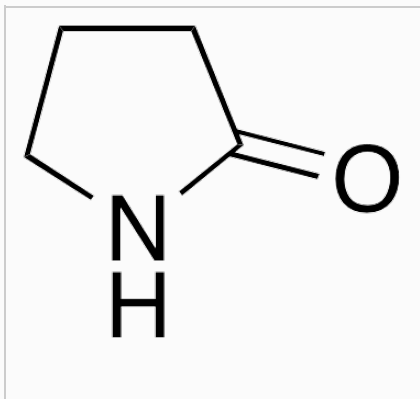
Catalogue Number: P998990

CAS Number: 616-45-5

Product: 2-Pyrrolidinone

Synonym: 2-Pyrrolidone; Butyrolactam; 2-Oxo-4-butyrolactam; 2-Oxopyrrolidine; 2-Pyrol; 2-Tetrahydropyrrolone; 4-Aminobutyric acid lactam; Azacyclopentan-2-one; Butanoic acid, 4-amino-, lactam; Butyrolactam; Kollisolv PYR; NSC 4593; NSC 8413; Pyrrolidone; Soluphor P; α -Pyrrolidinone; α -Pyrrolidone; γ -Aminobutyric acid lactam; γ -Aminobutyric lactam; γ -Aminobutyrolactam; γ -Butyrolactam

Structure:



Molecular Formula:

C₄H₇NO

Molecular weight:

85.11

Source of Product:

N/A

Solubility:

Chloroform (Sparingly),
DMSO (Slightly), Methanol
(Sparingly)

Lot Number: 2023-GHZ-137

Purity: 98%

Shipping Condition: This Product Is Stable To Be
Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Off-White Oil to Low-Melting Solid	Colourless to Off-White Oil to Low-Melting Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 55.92, %H: 8.66, %N: 16.92
GC Purity	Report Result	99.83%
MS	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Christina Gouliaras	4/3/2023	4/1/2027
				