

CERTIFICATE OF ANALYSIS

(Certificate No. KML020019-01)

Release Date: 15/10/2025

Re-test Date: 14/10/2028

2-PYRROLIDINONE

Identification

Chemical Name :

2-Tetrahydropyrrolone ; 4-Aminobutyric acid lactam ; Pyrrolidone

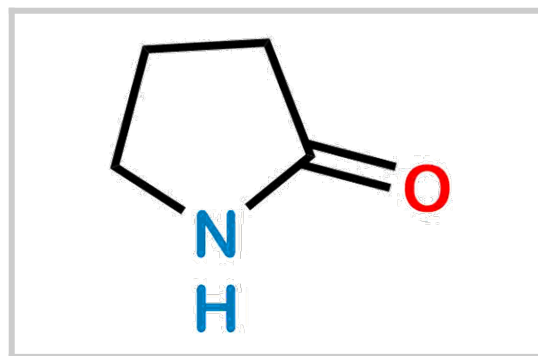
Alt. Name : pyrrolidin-2-one ; Butyrolactam

CAT No. : KML020019

CAS No. : 616-45-5

Molecular Formula : C₄H₇NO

Molecular Weight : 85.1



Analytical Information

Batch No. : 2-PYR-045-070

Description : Colorless liquid

HPLC Purity : 99.75 %

Weight Loss By TGA : 2.99 %

% Potency : 96.77 %

Solubility : Acetonitrile

Mass : Confirm

IR : Confirm

¹H NMR : Confirm

¹³C NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 2.99(Weight Loss By TGA)] x [99.75(HPLC Purity)]/100 = 96.77 %

-Re-tested on 15.10.2025

-¹³C NMR analysis added on 16.10.2025

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		17/10/2025
Reviewed & Approved By	Quality Control	Jatin Patel		17/10/2025

Attachments : COA, HPLC, MASS, ¹H NMR, ¹³C NMR, IR and TGA