CERTIFICATE OF ANALYSIS

(Certificate No. KML020019-01)

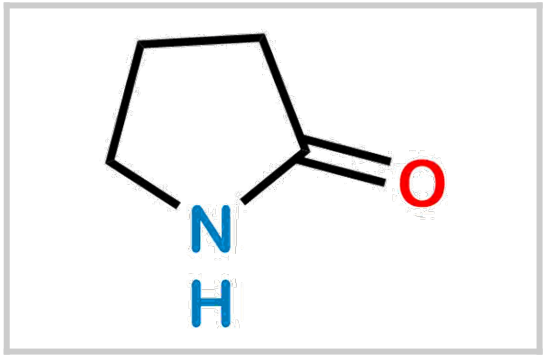
Release Date: 15/10/2025 **Re-test Date:** 14/10/2028

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	**Solubility**	: Acetonitrile
Description	: Colorless liquid	**Mass**	: Confirm
HPLC Purity	: 99.75 %	**IR**	: Confirm
Weight Loss By TGA	: 2.99 %	**1H NMR**	: Confirm
% Potency	: 96.77 %	**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, 1HNMR,13C NMR, IR and TGA