# **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

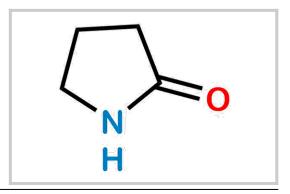
**Alt. Name** : pyrrolidin-2-one ; Butyrolactam

**CAT No.** : KML020019

**CAS No.** : 616-45-5

Molecular Formula : C4H7NO

**Molecular Weight** : 85.1



## **Analytical Information**

: 2-PYR-045-070 Batch No. **Solubility** : Acetonitrile **Description** : Colorless liquid **Mass** : Confirm : 99.75 % **HPLC Purity** 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