

# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMP004003-01)

**Release Date:** 29/05/2025

**Re-test Date:** 28/05/2028

## **Pregabalin Related Compound C**

### **Identification**

**Chemical Name :**

(S)-4-isobutylpyrrolidin-2-one

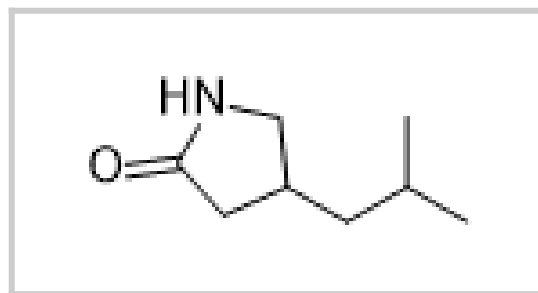
**Alt. Name** : Pregabalin Lactam

**CAT No.** : KMP004003

**CAS No.** : 61312-87-6

**Molecular Formula** : C<sub>8</sub>H<sub>15</sub>NO

**Molecular Weight** : 141.21



### **Analytical Information**

**Batch No.** : PRE-LAC-045-192

**Description** : Light Yellow Liquid

**HPLC Purity** : 98.53 %

**Weight Loss By TGA** : 2.45 %

**% Potency** : 96.12 %

**Solubility** : Acetonitrile

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H 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 - 2.45(Weight Loss By TGA)] x [98.53(HPLC Purity)]/100 = 96.12 %

-Re-tested on 29.05.2025

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		25/08/2025
Reviewed & Approved By	Quality Control	Jatin Patel		25/08/2025

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA