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## CERTIFICATE OF ANALYSIS

Analysis Date: Jan 2026

Re-test Date: Dec 2028

**Product Name: Gabapentin EP Impurity A**

### Identification:

Chemical Name: 4,4-Pentamethylene-2-pyrrolidinone

Synonyms : Gabapentin USP Related  
Compound A ; Gabapentin  
Lactam

CAS Number : 64744-50-9

CAT Number : CP-G3001

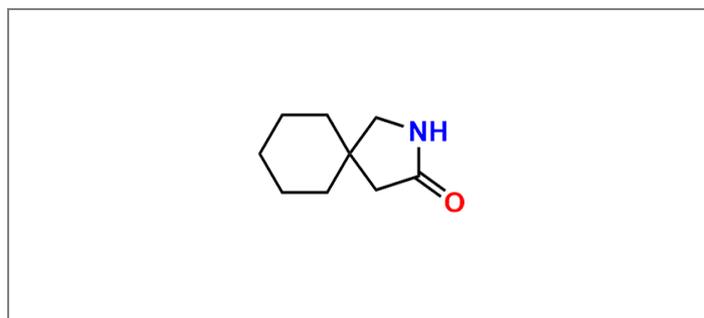
Molecular Formula : C<sub>9</sub>H<sub>15</sub>NO

Molecular Weight : 153.22

Batch Number : CHEM-GBP-A

Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is  
mention in the COA



### Analytical Information:

Sr. No.	Test	Result
1)	Description	White Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	98.86%
5)	<sup>1</sup> H NMR	Confirm to structure
6)	<sup>13</sup> C NMR	Confirm to Structure
7)	IR	Confirm to Structure



### Prepared and Reviewed By

Ms Priyanka Salunkhe  
(Quality Control)

### Approved By

Ms Rohini Gagare  
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.