

# CERTIFICATE OF ANALYSIS

(Certificate No. KMD136002-01)

Release Date: 08/03/2025

Re-test Date: 07/03/2028

## THEOPHYLLINE RELATED COMPOUND-D

### Identification

**Chemical Name :**

N-Methyl-5-(methylamino)-1H-imidazole-4-carboxamide (as per EP)

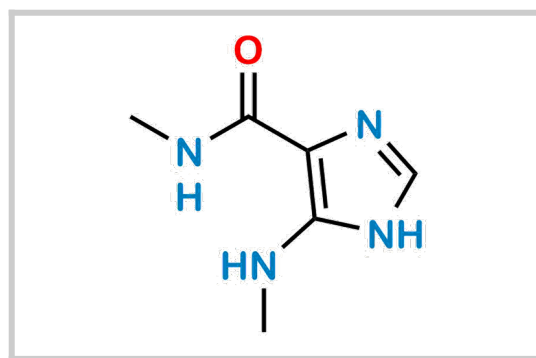
**Alt. Name** : Theophyllidine

**CAT No.** : KMD136002

**CAS No.** : 6736-40-9

**Molecular Formula** : C<sub>6</sub>H<sub>10</sub>N<sub>4</sub>O

**Molecular Weight** : 154.2



### Analytical Information

**Batch No.** : T001019-091-248

**Description** : Light Yellow Solid

**HPLC Purity** : 99.84 %

**Weight Loss By TGA** : 0.30 %

**% Potency** : 99.54 %

**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 - 0.30(Weight Loss By TGA)] x [99.84(HPLC Purity)]/100 = 99.54 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		08/03/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		08/03/2025

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