

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC017016-01)

**Release Date:** 28/04/2025

**Re-test Date:** 27/04/2028

## N-METHYLPIPERAZINE

### Identification

**Chemical Name :**  
1-Methylpiperazine

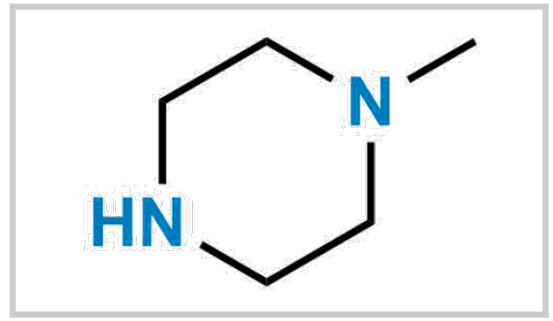
**Alt. Name** : Cyclizine USP Related Compound A

**CAT No.** : KMC017016

**CAS No.** : 109-01-3

**Molecular Formula** : C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>

**Molecular Weight** : 100.2



### Analytical Information

**Batch No.** : C017016-091-326

**Solubility** : Methanol

**Description** : Colorless Liquid

**Mass** : Confirm

**GC Purity** : 98.22 %

**IR** : Confirm

**Weight Loss By KF** : 0.79 %

**<sup>1</sup>H NMR** : Confirm

**% Potency** : 97.44 %

**<sup>13</sup>C 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 - 0.79(Weight Loss By KF)] x [98.22(GC Purity)]/100 = 97.44 %

**Recommendation** : Released

	<b>Department</b>	<b>Name</b>	<b>Signature</b>	<b>Date</b>
<b>Prepared By</b>	Analytical	Parag Patel		29/04/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		29/04/2025

**Attachments** : COA, GC, MASS, <sup>1</sup>HNMR, <sup>13</sup>CNMR, IR and TGA