

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001001-01)

Release Date: 14/02/2024

Re-test Date: 13/02/2027

## 1-(2-(2-methoxyethoxy)ethyl)piperazine

### Identification

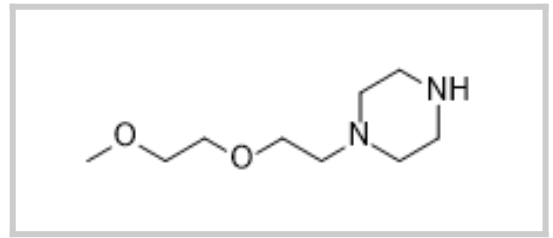
**Chemical Name :**  
1-(2-(2-methoxyethoxy)ethyl)piperazine

**CAT No.** : KMQ001001

**CAS No.** : 68465-66-7

**Molecular Formula** : C<sub>9</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>

**Molecular Weight** : 188.27



### Analytical Information

**Batch No.** : QUE-IMP-25-073-072

**Solubility** : Methanol

**Description** : Light Yellow Liquid

**Mass** : Confirm

**GC Purity** : 98.31 %

**IR** : Confirm

**Weight Loss By TGA** : 2.89 %

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

**% Potency** : 95.47 %

### 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 - 2.89(Weight Loss By TGA)] x [98.31(GC Purity)]/100 = 95.47 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		14/02/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		14/02/2024

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