

# CERTIFICATE OF ANALYSIS

(Certificate No. KMB120007-01)

Release Date: 15/11/2024

Re-test Date: 14/11/2027

## Buspirone Related Compound A

### Identification

**Chemical Name :**  
2-(Piperazin-1-yl)pyrimidine

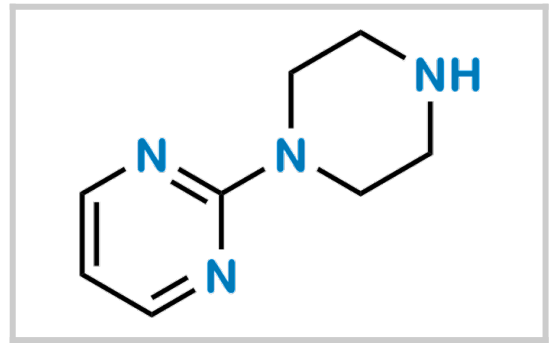
**Alt. Name** : Buspirone USP Related Compound A

**CAT No.** : KMB120007

**CAS No.** : 20980-22-7

**Molecular Formula** : C<sub>8</sub>H<sub>12</sub>N<sub>4</sub>

**Molecular Weight** : 164.2



### Analytical Information

**Batch No.** : B120007-091-020

**Solubility** : Methanol

**Description** : Light Yellow Liquid

**Mass** : Confirm

**HPLC Purity** : 97.58 %

**IR** : Confirm

**Weight Loss By TGA** : 2.45 %

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

**% Potency** : 95.19 %

### 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 [97.58(HPLC Purity)]/100 = 95.19 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		15/11/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		15/11/2024

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