

# CERTIFICATE OF ANALYSIS

(Certificate No. KMV003005-01)

Release Date: 03/07/2024

Re-test Date: 02/07/2027

## Vortioxetine Sulfoxide Impurity

### Identification

**Chemical Name :**

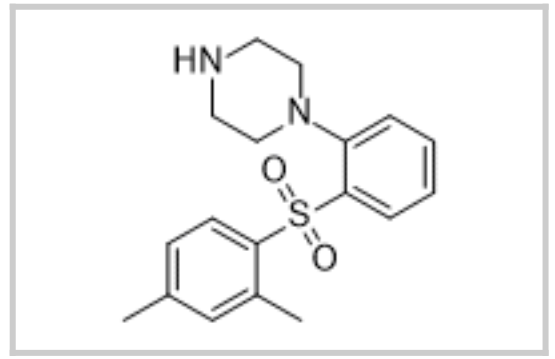
1-(2-((2,4-dimethylphenyl)sulfonyl)phenyl)piperazine

**CAT No.** : KMV003005

**CAS No.** : 1639263-80-1

**Molecular Formula** : C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>S

**Molecular Weight** : 330.44



### Analytical Information

**Batch No.** : VOR-IMP-25-073-275

**Description** : Light Yellow Solid

**HPLC Purity** : 95.36 %

**Weight Loss By TGA** : 0.89 %

**% Potency** : 94.51 %

**Solubility** : ACN

**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 - 0.89(Weight Loss By TGA)] x [95.36(HPLC Purity)]/100 = 94.51 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		06/07/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		06/07/2024

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