

# CERTIFICATE OF ANALYSIS

(Certificate No. KMV003005-01)

Release Date: 03/07/2024

Re-test Date: 02/07/2027

## Vortioxetine Sulfoxide Impurity

### Identification

**Chemical Name :**

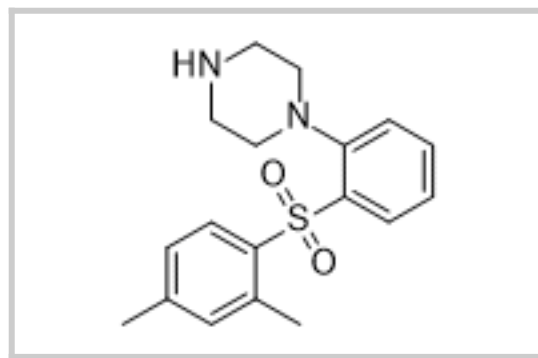
1-(2-((2,4-dimethylphenyl)sulfonyl)phenyl)piperazine

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
Prepared By	Analytical	Jignesh Patel		06/07/2024
Reviewed & Approved By	Quality Control	Jatin Patel		06/07/2024

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