

# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMV003044-01)

**Release Date:** 12/11/2024

**Re-test Date:** 11/11/2027

## **Vortioxetine Impurity 3**

### **Identification**

**Chemical Name :**

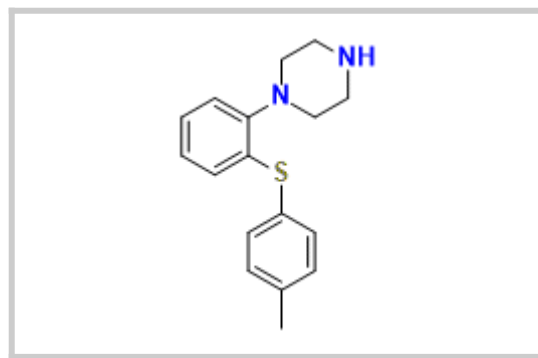
1-(2-(p-tolylthio)phenyl)piperazine ; 1-(2-(p-tolylthio)phenyl)piperazine

**CAT No.** : KMV003044

**CAS No.** : 508233-82-7

**Molecular Formula** : C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>S

**Molecular Weight** : 284.4



### **Analytical Information**

**Batch No.** : V003044-091-027

**Solubility** : Methanol

**Description** : Off White Solid

**Mass** : Confirm

**HPLC Purity** : 99.87 %

**IR** : Confirm

**Weight Loss By TGA** : 0.02 %

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

**% Potency** : 99.85 %

### **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 - 0.02(Weight Loss By TGA)] x [99.87(HPLC Purity)]/100 = 99.85 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		04/04/2025
Reviewed & Approved By	Quality Control	Jatin Patel		04/04/2025

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