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### CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Vortioxetine Impurity 1**

#### Identification:

Chemical Name: 1-(2-(o-tolylthio)phenyl)piperazine hydrochloride

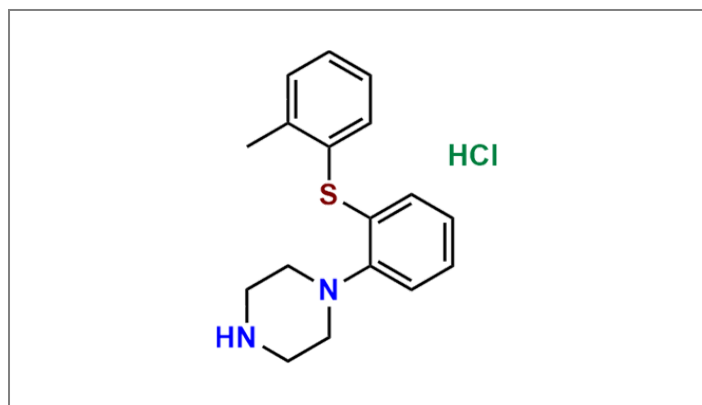
Synonyms : NA

CAS Number : 1293342-91-2

CAT Number : CP-V36024

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

Molecular Weight : 284.42 : 36.5



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.