

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001002-01)

Release Date: 08/02/2024

Re-test Date: 07/02/2027

## Quetiapine Desethoxy Impurity

### Identification

**Chemical Name :**  
2-(4-(dibenzo[b,f][1,4]thiazepin-11-yl)piperazin-1-yl)ethanol

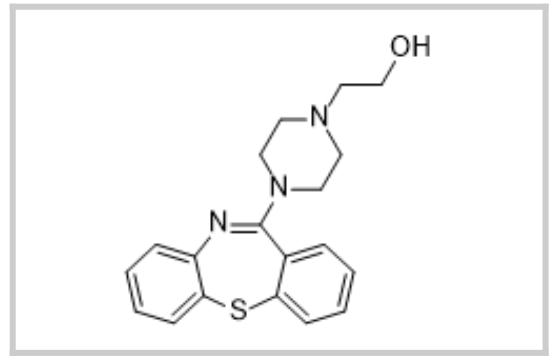
**Alt. Name :** Quetiapine EP Impurity I

**CAT No. :** KMQ001002

**CAS No. :** 329216-67-3

**Molecular Formula :** C<sub>19</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>S

**Molecular Weight :** 339.45



### Analytical Information

**Batch No. :** QUE-DESE-073-069

**Description :** Light Yellow Solid

**HPLC Purity :** 99.73 %

**Weight Loss By TGA :** 0.48 %

**% Potency :** 99.25 %

**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 =**  $[100 - 0.48(\text{Weight Loss By TGA})] \times [99.73(\text{HPLC Purity})]/100 = 99.25 \%$

**Recommendation :** Released

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

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