

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC017006-01)

Release Date: 12/12/2024

Re-test Date: 11/12/2027

## 8-Chloro-5,10-dihydrodibenzo[b,e][1,4]diazepin-11-one

### Identification

**Chemical Name :**

8-chloro-5,10-dihydro-11H-dibenzo[b,e][1,4]diazepin-11-one (as per EP)

**Alt. Name**

: Clozapine impurity C (USP) ;  
Clozapine impurity-A (As per IP) ;  
Clozapine EP Impurity A (As per EP)

**CAT No.**

: KMC017006

**CAS No.**

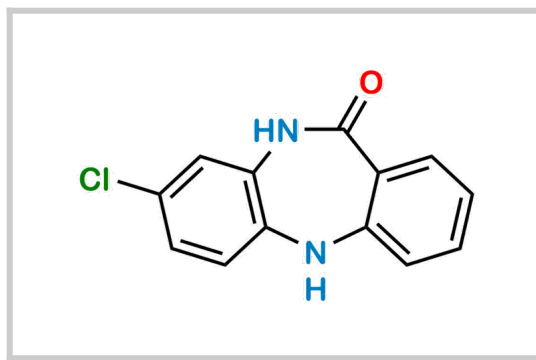
: 50892-62-1

**Molecular Formula**

: C<sub>13</sub>H<sub>9</sub>ClN<sub>2</sub>O

**Molecular Weight**

: 244.7



### Analytical Information

**Batch No.**

: C017006-091-078

**Solubility**

: Methanol

**Description**

: Grey Solid

**Mass**

: Confirm

**HPLC Purity**

: 99.82 %

**IR**

: Confirm

**Weight Loss By TGA**

: 0.13 %

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

: Confirm

**% Potency**

: 99.69 %

**<sup>13</sup>C 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 - 0.13(Weight Loss By TGA)] x [99.82(HPLC Purity)]/100 = 99.69 %

**Recommendation**

: Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		12/12/2024
Reviewed & Approved By	Quality Control	Jatin Patel		12/12/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA