

# **CERTIFICATE OF ANALYSIS**

(Certificate No. KMT003001-01)

**Release Date:** 16/09/2023

**Re-test Date:** 15/09/2026

## **Temazepam EP impurity E**

### **Identification**

**Chemical Name :**

7-chloro-1-methyl-2-oxo-5-phenyl-2,3-dihydro-1H-benzo[e][1,4]diazepine 4-oxide

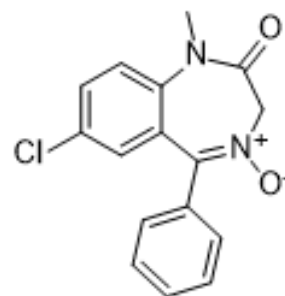
**Alt. Name** : Diazepam N-Oxide Impurity

**CAT No.** : KMT003001

**CAS No.** : 2888-64-4

**Molecular Formula** : C<sub>16</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>2</sub>

**Molecular Weight** : 300.74



### **Analytical Information**

**Batch No.** : TEM-IMP-E-045-271

**Solubility** : ACN

**Description** : Off White Solid

**Mass** : Confirm

**HPLC Purity** : 97.97 %

**IR** : Confirm

**Weight Loss By TGA** : 1.27 %

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

**% Potency** : 96.73 %

### **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 - 1.27(Weight Loss By TGA)] x [97.97(HPLC Purity)]/100 = 96.73 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		16/09/2023
Reviewed & Approved By	Quality Control	Jatin Patel		16/09/2023

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