

# CERTIFICATE OF ANALYSIS

(Certificate No. KMT003006-01)

Release Date: 18/09/2023

Re-test Date: 17/09/2026

## Temazepam EP impurity F

### Identification

**Chemical Name :**

(5RS)-7-chloro-1-methyl-5-phenyl-4,5-dihydro-1H- 1,4-benzodiazepine-2,3-dione

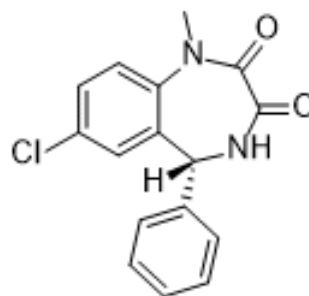
**Alt. Name** : Temazepam USP Related Compound F

**CAT No.** : KMT003006

**CAS No.** : 3294-96-0

**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-F-045-272

**Solubility** : ACN

**Description** : Yellow Solid

**Mass** : Confirm

**HPLC Purity** : 97.25 %

**IR** : Confirm

**Weight Loss By TGA** : 0.19 %

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

**% Potency** : 97.07 %

### 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 - 0.19(Weight Loss By TGA)] x [97.25(HPLC Purity)]/100 = 97.07 %

Remarks : COA Re-generated on 25.05.2024

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		25/05/2024
Reviewed & Approved By	Quality Control	Jatin Patel		25/05/2024

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