

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

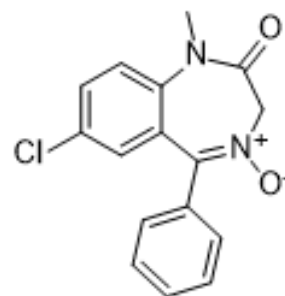
Alt. Name : Diazepam N-Oxide Impurity

CAT No. : KMT003001

CAS No. : 2888-64-4

Molecular Formula : C₁₆H₁₃ClN₂O₂

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 %

¹H 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, ¹HNMR, IR and TGA