

CERTIFICATE OF ANALYSIS

(Certificate No. KMT003002-01)

Release Date: 27/12/2025

Re-test Date: 26/12/2028

Diazepam Impurity D

Identification

Chemical Name :

[5-chloro-2-(methylamino)phenyl]phenylmethanone

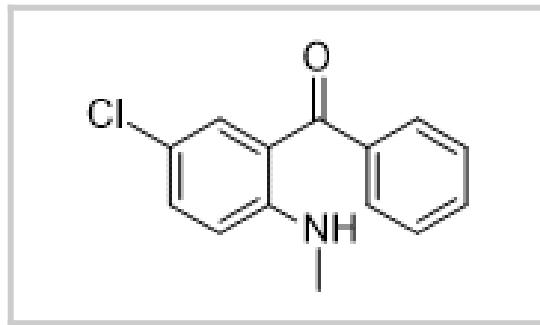
Alt. Name : Temazepam USP Related Compound A

CAT No. : KMT003002

CAS No. : 1022-13-5

Molecular Formula : C₁₄H₁₂ClNO

Molecular Weight : 245.70



Analytical Information

Batch No. : TEM-IMP-A-045-267

Solubility : ACN

Description : Yellow Solid

Mass : Confirm

HPLC Purity : 98.56 %

IR : Confirm

Weight Loss By TGA : 0.10 %

1H NMR : Confirm

% Potency : 98.46 %

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 - 0.10(Weight Loss By TGA)] x [98.56(HPLC Purity)]/100 = 98.46 %

Remarks : COA Re-generated on 25.05.2024

-Re-tested on 27.12.2025

Recommendation : Released

Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel	27/12/2025
Reviewed & Approved By	Quality Control	Jatin Patel	27/12/2025

Attachments : COA, HPLC, MASS, 1HNMR, IR and TGA