

CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001007-01)

Release Date: 04/03/2024

Re-test Date: 03/03/2027

Nitrosamine Piperazine Ethanol (HEP)

Identification

Chemical Name :

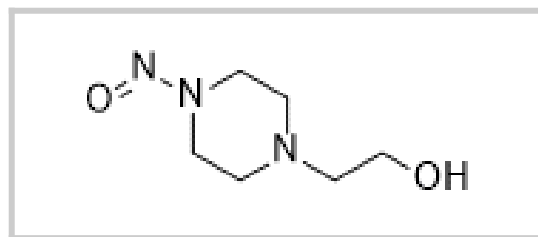
2-(4-Nitrosopiperazin-1-yl)ethan-1-ol

CAT No. : KMQ001007

CAS No. : 48121-20-6

Molecular Formula : C₆H₁₃N₃O₂

Molecular Weight : 159.19



Analytical Information

Batch No. : QUE-HY-PIP-N-NO-019-139

Solubility : Methanol

Description : Light Yellow Low Melting Solid *

Mass : Confirm

HPLC Purity : 98.98 %

IR : Confirm

Weight Loss By TGA : 1.19 %

¹H NMR : Confirm

% Potency : 97.8 %

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 - 1.19(Weight Loss By TGA)] x [98.98(HPLC Purity)]/100 = 97.8 %

-Re-tested on 04.03.2024

*Physical state changed due to storage at 2-8 deg. C but no change in purity

Recommendation : Released

| | Department | Name | Signature | Date |
|------------------------|-----------------|---------------|-----------|------------|
| Prepared By | Analytical | Jignesh Patel | | 30/01/2026 |
| Reviewed & Approved By | Quality Control | Jatin Patel | | 30/01/2026 |

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