

# CERTIFICATE OF ANALYSIS

(Certificate No. KMN001007-01)

Release Date: 11/03/2024

Re-test Date: 10/03/2027

## N,N'-Dinitrosopiperazine

### Identification

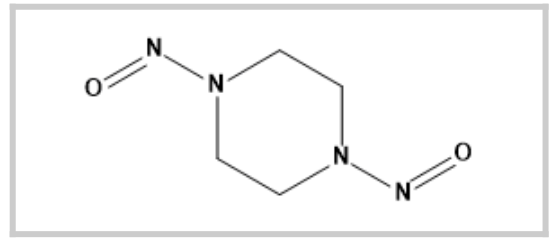
Chemical Name :  
1,4-dinitrosopiperazine

CAT No. : KMN001007

CAS No. : 140-79-4

Molecular Formula : C<sub>4</sub>H<sub>8</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight : 144.13



### Analytical Information

Batch No. : PIP-DI-N-NO-073-115

Description : Light Yellow Solid

HPLC Purity : 99.98 %

Weight Loss By TGA : 1.44 %

% Potency : 98.54 %

Solubility : ACN : Water (1:1)

Mass : Confirm

IR : Confirm

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

<sup>13</sup>C NMR : Confirm

### 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 - 1.44(Weight Loss By TGA)] x [99.98(HPLC Purity)]/100 = 98.54 %  
-13 CNMR added on 29.11.2024

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		02/12/2024
Reviewed & Approved By	Quality Control	Jatin Patel		02/12/2024

Attachments : COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA