

# CERTIFICATE OF ANALYSIS

(Certificate No. KMM091003-01)

Release Date: 05/04/2025

Re-test Date: 04/04/2028

## 1-Cyanoguanidine

### Identification

Chemical Name :  
1-Cyanoguanidine

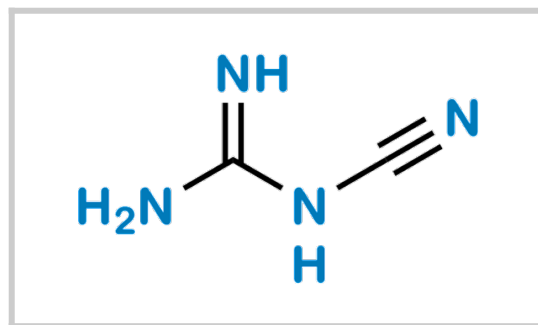
Alt. Name : Metformin USP Related Compound A  
; Dicyandiamide

CAT No. : KMM091003

CAS No. : 461-58-5

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

Molecular Weight : 84.1



### Analytical Information

Batch No. : M091003-091-306

Description : Off White Solid

HPLC Purity : 99.94 %

Weight Loss By TGA : 0.20 %

% Potency : 99.74 %

Solubility : \*Refer in  
Additional  
information

Mass : Confirm

IR : Confirm

<sup>1</sup>H 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 - 0.20(Weight Loss By TGA)] x [99.94(HPLC Purity)]/100 = 99.74 %

\* 17g/L solution of ammonium dihydrogen phosphate adjusted pH 3.0 with phosphoric acid

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		07/04/2025
Reviewed & Approved By	Quality Control	Jatin Patel		07/04/2025

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