



## CERTIFICATE OF ANALYSIS

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### 1. Identification

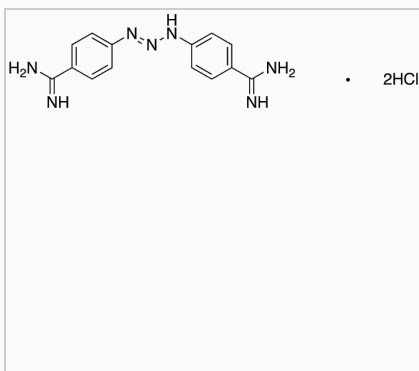
**Catalogue Number:** D479550

**CAS Number:** 31384-83-5

**Product:** Diminazene Dihydrochloride

**Synonym:** 4,4'-(1-Triazene-1,3-diyl)bisbenzenecarboximidamide Dihydrochloride; 4,4'-(Diazoamino)dibenzamidine Dihydrochloride; Berenil Dihydrochloride;

**Structure:**



**Molecular Formula:**

C<sub>14</sub>H<sub>17</sub>Cl<sub>2</sub>N<sub>7</sub>

**Molecular weight:**

354.24

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly, Heated),  
Methanol (Slightly, Heated)

**Lot Number:** 6-RNP-142-1

**Purity:** 95%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:** Hygroscopic

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Yellow to Dark Yellow Solid	Dark Yellow Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 46.10, %H: 4.43, %N: 26.82
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.98% (365 nm)

**Additional Information:** Elemental Analysis: (Theoretical) %C: 47.47, %H: 4.84, %N: 27.68

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Neha Khanna	Eric Beaton	My Nguyen	11/1/2019	10/30/2026

*Neha*

*EB*

*my*