



## CERTIFICATE OF ANALYSIS

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### 1. Identification

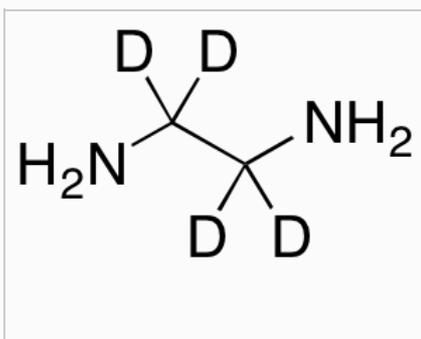
**Catalogue Number:** E917697

**CAS Number:** 37164-19-5

**Product:** Ethylene-d4 Diamine

**Synonym:** 1,2-Ethanediamine-d4; 1,2-Ethanediamine-d4; 1,2-Diaminoethane-d4; Chlor-ethamine-d4; Dimethylenediamine-d4; Ethylenediammonium-d4

**Structure:**



**Molecular Formula:**

C<sub>2</sub>H<sub>4</sub>D<sub>4</sub>N<sub>2</sub>

**Molecular weight:**

64.12

**Source of Product:**

Synthetic

**Solubility:**

Methanol (Slightly)

**Lot Number:** HJ-480-A

**Purity:** 98%

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

**Storage Condition:** 4°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Pale Yellow Oil	Clear Colourless to Pale Yellow Oil
NMR	Conforms to Structure	Conforms
GC Purity	Report Result	99.57%
Isotopic Purity	>95%	>95% by NMR

**Additional Information:** N/A

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
Iuri Lutenco	Toni Rantanen	Chanell Chu	06/15/2023	06/13/2027