



## CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA  
Tel: (416) 665-9696, Fax: (416) 665-4439  
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

### 1. Identification

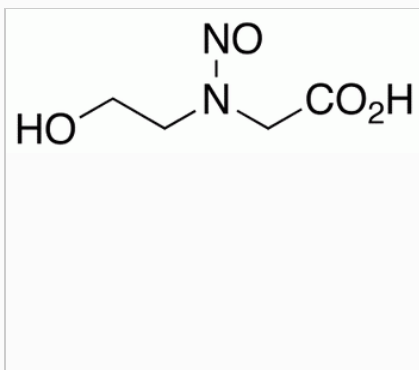
**Catalogue Number:** N528400

**CAS Number:** 80556-89-4

**Product:** N-Nitroso(2-hydroxyethyl)glycine

**Synonym:** 2-[(2-Hydroxyethyl)nitrosoamino]acetic Acid;  
N-(2-Hydroxyethyl)-N-carboxymethylnitrosamine;

**Structure:**



**Molecular Formula:**

C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>4</sub>

**Molecular weight:**

148.12

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly), Methanol (Slightly)

**Lot Number:** 3-TVP-36-4

**Purity:** 98%

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

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

| Tests:             | Specifications:       | Results:                      |
|--------------------|-----------------------|-------------------------------|
| NMR                | Conforms to structure | Conforms                      |
| MS                 | Conforms to Structure | Conforms                      |
| Melting Point      | Report Results        | 73 - 77°C                     |
| HPLC               |                       | 98.13%                        |
| Water Content      | Report Result         | Refer: Additional Information |
| Elemental Analysis | Conforms              | Refer: Additional Information |
| Appearance         |                       | Pale Yellow Solid             |

#### Additional Information:

TLC Conditions: C18; Acetonitrile : Water = 9 : 1; Visualized with UV and AMCS; R<sub>f</sub> = 0.701H NMR and MS conform to structure  
Elemental Analysis: (Found) %C: 32.60, %H: 5.34, %N: 18.77; (Calculated) %C: 32.44, %H: 5.44, %N: 18.91

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 |
|-------------|-------------|--------------------|-----------|-------------|
| Philip Chan |             |                    | 4/5/2018  | 4/3/2028    |

