



## CERTIFICATE OF ANALYSIS

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### 1. Identification

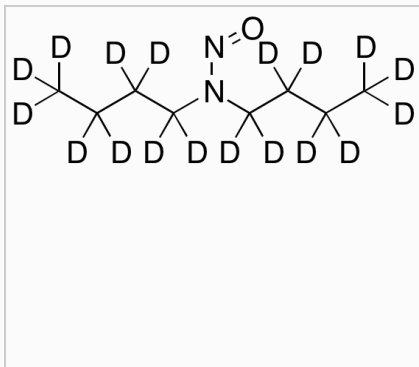
**Catalogue Number:** N525537

**CAS Number:** 1219798-82-9

**Product:** N-Nitroso-di-n-butylamine-d18

**Synonym:** Dibutyl nitrosamine-d18; NDBA-d18; NSC 6830-d18; Nitrosodibutylamine-d18; N-Butyl-N-nitroso-1-butanamine-d18;

**Structure:**



**Molecular Formula:**

C<sub>8</sub>D<sub>18</sub>N<sub>2</sub>O

**Molecular weight:**

176.35

**Source of Product:**

Synthetic

**Solubility:**

Acetone (Slightly), Chloroform (Slightly), Methanol (Slightly)

**Lot Number:** 2022-SUM-011

**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 Yellow Oil | Clear Pale Yellow Oil           |
| NMR                | Conforms to Structure    | Conforms                        |
| MS                 | Conforms to Structure    | Conforms                        |
| Isotopic Purity    | >95%                     | 95.7%                           |
| GC                 | Report Result            | 99.92%                          |
| Elemental Analysis | Conforms                 | %C: 55.05, %H: 10.61, %N: 16.94 |

#### Additional Information:

Normalized Intensity: d0 = 0.03%, d1 = 0.74%, d2 = 3.36%, d3 = 0.00%, d4 = 0.00%, d5 = 0.00%, d6 = 0.00%, d7 = 0.00%, d8 = 0.01%, d9 = 0.00%, d10 = 0.00%, d11 = 0.00%, d12 = 0.00%, d13 = 0.02%, d14 = 0.00%, d15 = 0.03%, d16 = 0.37%, d17 = 8.67%, d18 = 86.76%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . 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 |
|-------------|---------------|--------------------|------------|-------------|
| Henry Tieu  | Toni Rantanen | Chanell Chu        | 12/21/2022 | 12/19/2026  |