



## CERTIFICATE OF ANALYSIS

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### 1. Identification

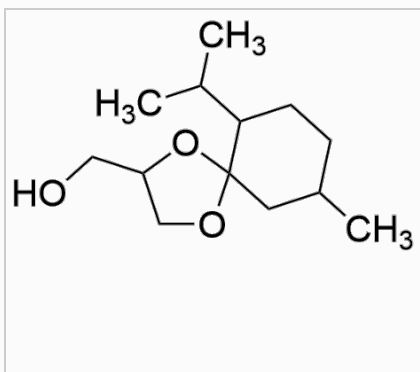
**Catalogue Number:** M631870

**CAS Number:** 63187-91-7

**Product:** Menthone Glycerin Acetal

**Synonym:** Menthone Glycerine Acetal; Menthone Glyceryl Ketal; [9-Methyl-6-(propan-2-yl)-1,4-dioxaspiro[4.5]decan-2-yl]methanol; 9-Methyl-6-(1-methylethyl)-1,4-dioxaspiro[4.5]decane-2-methanol; (6-Isopropyl-9-methyl-1,4-dioxaspiro[4.5]decan-2-yl)methanol; (9-Methyl-6-propan-2-yl-1,4-dioxaspiro[4.5]decan-3-yl)methanol; 6-Isopropyl-9-methyl-1,4-dioxaspiro[4,5]decane-2-methanol; Fema Gras 3808; Frescolat MGA;

**Structure:**



**Molecular Formula:**

C<sub>13</sub>H<sub>24</sub>O<sub>3</sub>

**Molecular weight:**

228.33

**Source of Product:**

N/A

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly)

**Lot Number:** 711906094-1-1

**Purity:** 95%

**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 Thick Oil  | Clear Colourless Thick Oil |
| NMR                | Conforms to Structure | Conforms                   |
| Elemental Analysis | Conforms              | %C: 68.17, %H: 10.91       |
| MS                 | Conforms to Structure | Conforms                   |

**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 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|-------------|
| Meenakshi Sharma                                                                  | Toni Rantanen                                                                     | Chanell Chu                                                                       | 11/27/2023 | 11/25/2027  |
|  |  |  |            |             |