



## CERTIFICATE OF ANALYSIS

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### 1. Identification

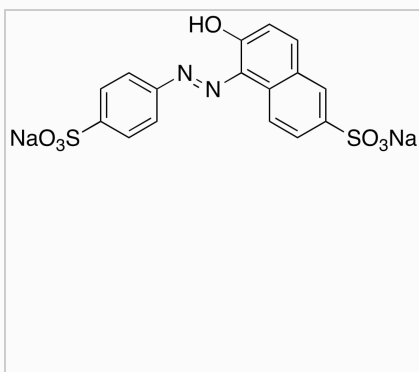
**Catalogue Number:** S825000

**CAS Number:** 2783-94-0

**Product:** Sunset Yellow FCF

**Synonym:** 6-Hydroxy-5-[2-(4-sulfophenyl)diazenyl]-2-naphthalenesulfonic Acid Sodium Salt; 1-p-Sulfophenylazo-2-hydroxynaphthalene-6-sulfonate disodium salt; 1351 Yellow; 1899 Yellow; Acid Food Yellow 3; Yellow S; Yellow SY; Yellow Sun;

**Structure:**



**Molecular Formula:**

$C_{16}H_{10}N_2Na_2O_7S_2$

**Molecular weight:**

452.37

**Source of Product:**

N/A

**Solubility:**

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

**Lot Number:** 11-SUM-47-1

**Purity:** 96%

**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         | Red to Dark Red Solid | Red to Dark Red Solid         |
| Elemental Analysis | Conforms              | %C: 42.20, %H: 2.34, %N: 5.86 |
| NMR                | Conforms to Structure | Conforms                      |
| MS                 | Conforms to Structure | Conforms                      |
| UV Absorbance      | Report Result         | 234 nm, 314 nm, 483 nm        |
| Sodium Content     | Report Result         | 10.61% by Ion Chromatography  |

**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  $\pm 2\%$ . 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 |
|-------------|---------------|--------------------|-----------|-------------|
| Neha Khanna | Toni Rantanen | Chanell Chu        | 1/10/2022 | 1/8/2026    |