



## 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

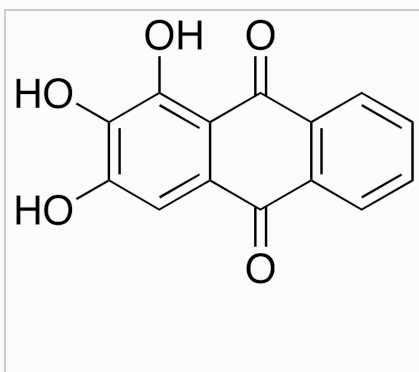
**Catalogue Number:** A678700

**CAS Number:** 602-64-2

**Product:** Anthragallol

**Synonym:** 1,2,3-Trihydroxy-9,10-anthracenedione;  
1,2,3-Trihydroxy-9,10-anthraquinone; 1,2,3-Trihydroxyanthraquinone; Alizarine Brown HD; Anthracene Brown FD; Anthracene; Anthracromo Brown D; Antragallol; C.I. 58200; Mitsui Anthracene Brown; NSC 31754;

**Structure:**



**Molecular Formula:**

C<sub>14</sub>H<sub>8</sub>O<sub>5</sub>

**Molecular weight:**

256.21

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly), Methanol (Slightly)

**Lot Number:** 2-KMW-101-3

**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:              |
|--------------------|----------------------------------|-----------------------|
| Elemental Analysis | Conforms                         | %C: 65.24, %H: 2.91   |
| HPLC Purity        | Report Result                    | 99.48% (280 nm)       |
| Appearance         | Orange to Very Dark Orange Solid | Orange to Brown Solid |
| NMR                | Conforms to Structure            | Conforms              |
| 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 |
|-------------|---------------|--------------------|-----------|-------------|
| Evan Burns  | Toni Rantanen | Chanell Chu        | 3/21/2022 | 3/19/2026   |

Evan Burns