



## CERTIFICATE OF ANALYSIS

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### 1. Identification

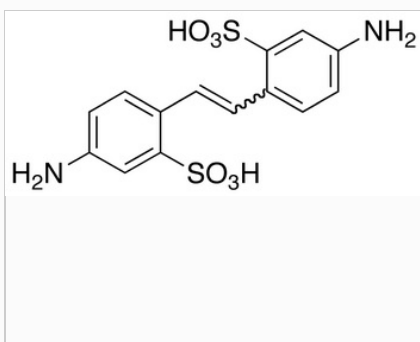
**Catalogue Number:** D416830

**CAS Number:** 81-11-8

**Product:** 4,4'-Diaminostilbene-2,2'-disulfonic Acid, 95+%

**Synonym:** 2,2'-(1,2-Ethenediyl)bis[5-amino-benzenesulfonic Acid; 4,4'-Diamino-2,2'-stilbenedisulfonic Acid; 2,2'-Disulfo-4,4'-stilbenediamine; Diaminostilbenedisulfonic Acid; DASDA, Amsonic Acid;

**Structure:**



**Molecular Formula:**

C<sub>14</sub>H<sub>14</sub>N<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

**Molecular weight:**

370.4

**Source of Product:**

N/A

**Solubility:**

Aqueous Base (Slightly)

**Lot Number:** 2-HMT-76-1

**Purity:** 98%

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

**Storage Condition:** -20°C, Light sensitive

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

| Tests:      | Specifications:                  | Results:                         |
|-------------|----------------------------------|----------------------------------|
| Appearance  | Pale Yellow to Light Beige Solid | Pale Yellow to Light Beige Solid |
| NMR         | Conforms to Structure            | Conforms                         |
| MS          | Conforms to Structure            | Conforms                         |
| HPLC Purity | Report Result                    | 98.59% (340 nm)                  |

**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 |
|--------------|---------------|--------------------|-----------|-------------|
| swathi reddy | Toni Rantanen | Chanell Chu        | 7/21/2023 | 7/19/2027   |