

Product: Fumaric Acid

## **CERTIFICATE OF ANALYSIS**

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## 1. Identification

Catalogue Number: F500380 CAS Number: 110-17-8

Synonym: (2E)-2-Butenedioic Acid; (2E)-But-2-enedioic

Acid; (E)-2-Butenedioic Acid; 2-(E)-Butenedioic Acid; (E)-Butenedioic Acid; Allomaleic Acid; Bakeshure 451; Bakeshure 470; Boletic Acid; FC 33; Lichenic Acid; NSC 2752; Petrom; trans-1,2-Ethylenedicarboxylic

Acid; trans-2-Butenedioic Acid; trans-

Butenedioic Acid;

Structure:

 $HO_2C$   $CO_2H$ 

Molecular Formula:

C4H4O4

Molecular weight:

116.07

Source of Product:

N/A Solubility:

DMSO (Sparingly), Methanol

(Slightly)

Lot . 15-ABY-179-1 Purity: 98%

Number: 13-AD1-179-1 987

Shipping This Product Is Stable To Be Condition: Shipped At Room Temperature Storage Condition: 4°C

2. Warning

Appearance

Warning 1: Not Determined Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

White to Off-White Solid White to Off-White Solid

NMR Conforms to Structure Conforms
C NMR Conforms to Structure Conforms

Elemental Analysis Conforms %C: 41.44, %H: 3.38

MS Conforms to Structure Conforms

HPLC Purity >95% 100.00% (215 nm)

Additional Information: Elemental Analysis: (Theoretical) %C: 41.39, %H: 3.47

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 ByReviewed ByC of A Approved ByTest DateRetest DateHenry TieuToni RantanenMy Nguyen9/15/20209/13/2030

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