



CERTIFICATE OF ANALYSIS

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1. Identification

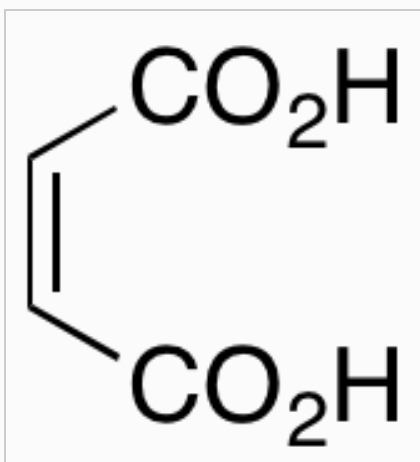
Catalogue Number: M124300

CAS Number: 110-16-7

Product: Maleic Acid

Synonym: (2Z)-Butene-2-dioic Acid; (Z)-2-Butenedioic Acid; (Z)-2-Butenedioic Acid; Maleinic Acid; Malezid CM; Scotchbond Multipurpose Etchant; Toxilic Acid; cis-1,2-Ethylenedicarboxylic Acid; cis-2-Butenedioic Acid; cis-Butenedioic Acid

Structure:



Molecular Formula:

C₄H₄O₄

Molecular weight:

116.07

Source of Product:

N/A

Solubility:

DMSO (Sparingly), Methanol (Slightly)

Lot Number: 3-VIJ-166-1

Purity: 98%

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

Storage Condition: 20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	100.00% (220 nm)
MS	Conforms to Structure	Conforms
Water Content	Report Result	0.4% by Karl Fischer
FT-IR	Conforms to Structure	Conforms
TGA	Report Result	See Additional Information

Additional Information:

The sample was tested by TGA, initiated in a nitrogen environment. The initial degradation onset temperature was measured at 143.4°C. The environment was changed to air at 800.0°C. The sample had 1.0% of its weight remaining at 996.8°C.

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
Nicole Yip	Toni Rantanen	Chanell Chu	2/8/2023	2/6/2027
				