

Product: Itaconic Acid

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue 1931000 CAS Number: 97-65-4

Synonym: 2-Methylenebutanedioic Acid;

Methylenesuccinic Acid; 2-Methylenebutanedioic Acid; 2-

Methylenesuccinic Acid; 2-Propene-1,2-dicarboxylic Acid; 4-Hydroxy-2-methylene-4-oxobutanoic Acid; Methylenebutanedioic Acid;

NSC 3357; Propylenedicarboxylic Acid

Structure:

 CH_2 HO_2C CO_2H

Molecular Formula:

C5H6O4

Molecular weight:

130.1

Source of Product:

N/A Solubility:

DMSO (Sparingly), Methanol

(Slightly, Sonicated)

Lot 2-FGD-58-1 Purity: 98%

Number: 2-1 GD-38-1

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

Storage Condition: -20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests:Specifications:Results:AppearanceWhite to Off-White SolidWhite SolidNMRConforms to StructureConformsMSConforms to StructureConforms

Elemental Analysis Conforms %C: 46.26, %H: 4.58

HPLC Purity Report Result 99.82% (ELSD)

C NMR 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 \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 9/15/2021 9/13/2025

R. Letti

Chan