



CERTIFICATE OF ANALYSIS

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1. Identification

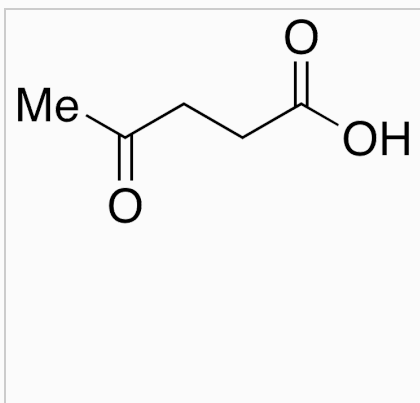
Catalogue Number: L379500

CAS Number: 123-76-2

Product: Levulinic Acid

Synonym: 3-Acetylpropionic Acid; 3-Oxobutanecarboxylic Acid; 4-Ketovaleric Acid; 4-Oxopentanoic Acid; 4-Oxovaleric Acid; Laevulinic Acid; Levulic Acid; NSC 3716; β -Acetylpropionic Acid; γ -Ketovaleric Acid

Structure:



Molecular Formula:

C₅H₈O₃

Molecular weight:

116.12

Source of Product:

N/A

Solubility:

Acidic Methanol (Slightly),
Chloroform (Sparingly),
Methanol (Slightly)

Lot Number: 711619153-4-2

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:
Appearance	Colourless to Pale Beige Oil to Low-Melting Solid	Pale Yellow to Pale Beige Low-Melting Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 49.68, %H: 7.49
GC	Report Result	99.56%
MS	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Water Content	Report Result	~3.9% based on Elemental Analysis

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	7/27/2022	7/25/2026

