

Levulinic Acid

CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA Tel: (416) 665-9696, Fax: (416) 665-4439

Email:orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

Product:

Catalogue L379500 CAS 123-76-2 Number: Number:

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; y-Ketovaleric Acid

Structure: Molecular Formula:

C5H8O3

Molecular weight:

116.12

Source of Product:

N/A

Solubility:

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

Purity: 22-XJZ-104-1 98% Number:

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

2. Warning

Lot

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Colourless to Pale Beige Oil to Low-Clear Colourless Oil Appearance Melting Solid

NMR Conforms to Structure Conforms MS Conforms to Structure Conforms C NMR Conforms to Structure Conforms

Elemental Conforms %C: 50.14, %H: 7.21 Analysis

GC 99.33% Report Result

Water Content Report Result ~3.1% 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
Swathi Reddy
Toni Rantanen

C of A Approved
By
Chanell Chu
6/17/2022
6/15/2026