



## CERTIFICATE OF ANALYSIS

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### 1. Identification

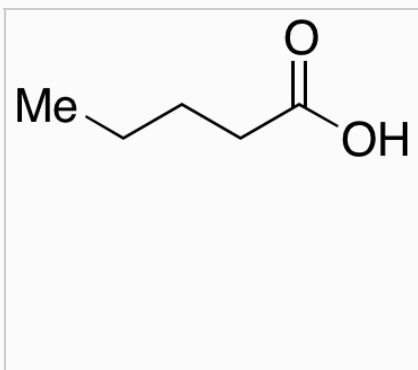
**Catalogue Number:** V091415

**CAS Number:** 109-52-4

**Product:** Valeric Acid

**Synonym:** 1-Butanecarboxylic Acid; NSC 406833; Propylacetic Acid; n-Pentanoic Acid; n-Valeric Acid

**Structure:**



**Molecular Formula:**

C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>

**Molecular weight:**

102.13

**Source of Product:**

N/A

**Solubility:**

Chloroform (Sparingly),  
Methanol (Very Slightly)

**Lot Number:** 711921450-5-1

**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 Oil	Clear Colourless Oil
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 58.49, %H: 10.34
GC Purity	Report Result	99.68%
MS	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
Henry Tieu	Toni Rantanen	Chanell Chu	12/20/2023	12/18/2027