



## CERTIFICATE OF ANALYSIS

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### 1. Identification

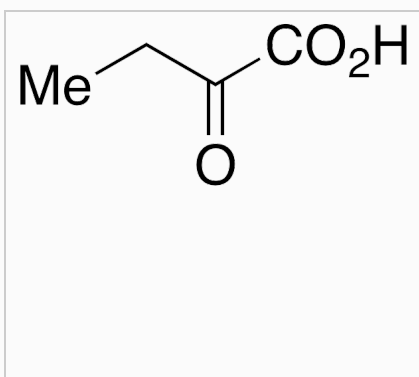
**Catalogue Number:** K175300

**CAS Number:** 600-18-0

**Product:** α-Ketobutyric Acid

**Synonym:** 2-Oxobutanoic Acid; 2-Oxobutyric Acid; 2-Ketobutanoic Acid; 2-Ketobutyric Acid; 2-Oxo-n-butyric Acid; 2-Oxobutanoic Acid; 2-Oxobutyric Acid; 3-Methylpyruvic Acid; NSC 60533; Propionylformic Acid; α-Ketobutyric Acid; α-Oxo-n-butyric Acid; α-Oxobutanoic Acid; α-Oxobutyric Acid; α-keto-n-Butyric Acid;

**Structure:**



**Molecular Formula:**

C<sub>4</sub>H<sub>6</sub>O<sub>3</sub>

**Molecular weight:**

102.09

**Source of Product:**

N/A

**Solubility:**

DMSO (Soluble), Methanol (Slightly)

**Lot Number:** 2-PVA-169-1

**Purity:** 98%

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

**Storage Condition:** 4°C, Inert atmosphere

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 47.11, %H: 5.80
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Appearance	Colourless to Off-White Oil to Solid	Colourless to Off-White Low-Melting Solid

**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 ± 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	2/25/2022	2/23/2026
				