



CERTIFICATE OF ANALYSIS

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1. Identification

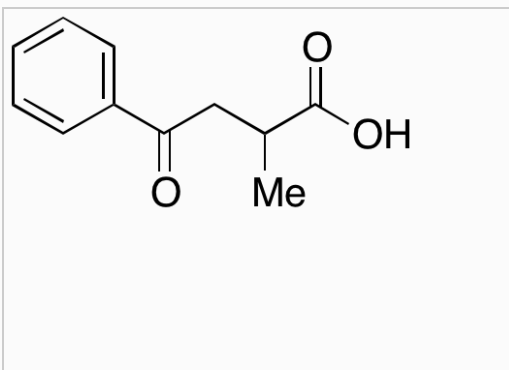
Catalogue Number: M327155

CAS Number: 1771-65-9

Product: 2-Methyl-4-oxo-4-phenylbutyric Acid

Synonym: 2-Methyl-4-oxo-4-phenylbutanoic Acid

Structure:



Molecular Formula:

C₁₁H₁₂O₃

Molecular weight:

192.21

Source of Product:

N/A

Solubility:

DMSO (Slightly), Methanol (Slightly)

Lot Number: 13-MWC-54-1

Purity: 98%

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

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 68.56, %H: 5.83
Specific Rotation	Report Result	0.0° (c = 0.2, Methanol)
HPLC Purity	>95%	100.00% (245 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol = 9 : 1; Visualized with UV and KMnO₄; Single Spot, R_f = 0.75. Elemental Analysis: (Theoretical) %C: 68.74, %H: 6.29

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
Neha Khanna	Toni Rantanen	My Nguyen	12/18/2019	12/16/2026