



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

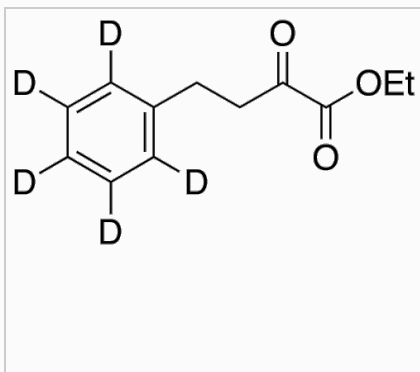
Catalogue Number: E925387

CAS Number: 1189911-53-2

Product: Ethyl 2-Oxo-4-phenylbutyrate-d5

Synonym: α-Oxo-benzenebutanoic Acid Ethyl Ester-d5; 2-Oxo-4-phenylbutyric Acid Ethyl Ester-d5; 4-Phenyl-2-oxobutyric Acid Ethyl Ester-d5; Ethyl 2-Oxo-4-phenylbutanoate-d5; Ethyl 4-Phenyl-2-oxobutanoate-d5; Ethyl 4-Phenyl-2-oxobutyrate-d5; Ethyl Benzylpyruvate-d5;

Structure:



Molecular Formula:

C₁₂H₉D₅O₃

Molecular weight:

211.27

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 7-DHL-127-3

Purity: 96%

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

Storage Condition: -20°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Pale Yellow Oil	Clear Colourless Oil
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 68.13, %H: 6.92
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.5%

Additional Information:

TLC Conditions: SiO₂; Hexanes : Ethyl Acetate = 9: 1; Visualized with UV and KMnO₄; Single Spot, R_f = 0.30. Elemental Analysis: (Theoretical) %C: 68.22, %H: 6.68 Normalized Intensity: d₀ = 0.05%, d₁ = 0.08%, d₂ = 0.13%, d₃ = 0.70%, d₄ = 0.00%, d₅ = 99.04%

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

Eric Beaton



Reviewed By

Toni Rantanen



**C of A Approved
By**

My Nguyen



Test Date

1/13/2020

Retest Date

1/11/2030