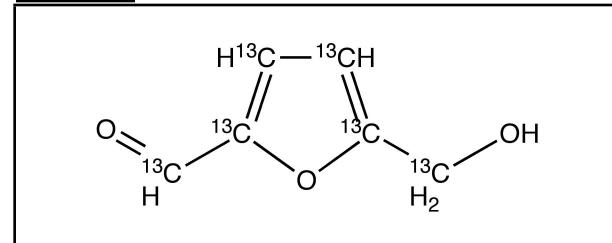


CERTIFICATE OF ANALYSIS**1. Identification**

Catalogue Number H947002 Lot Number 16-VKU-77-4

Product Name
5-Hydroxymethyl-2-furaldehyde-13C6

StructureSynonyms

5-(Hydroxymethyl)-2-furancarboxaldehyde-13C6; 2-Formyl-5-hydroxymethylfuran-13C6; HMF; 2-Hydroxymethyl-5-furfural-13C6; 5-(Hydroxymethyl)-2-furancarbonal-13C6; 5-(Hydroxymethyl)furfural-13C6; 5-Hydroxymethylfurfurol-13C6; 5-Oxymethylfurfurol-13C6; NSC 40738-13C6;

CAS Number

1219193-98-2

Solubility

Chloroform (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped With Blue Ice

Molecular Formula¹³C₆H₆O₃Source of Product

Synthetic

Long Term Storage Conditions

-20°C, Inert atmosphere, Light sensitive

Molecular Weight

132.07

Purity

>95%

2. Warnings

Light Sensitive

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Dark Yellow Low-Melting Solid	Off-White Low-Melting Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
GC Purity	>95%	99.78%
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.9%

Additional Information

Normalized Intensity: ¹³C₀ = 0.47%, ¹³C₁ = 0.00%, ¹³C₂ = 0.00%, ¹³C₃ = 0.00%, ¹³C₄ = 0.00%, ¹³C₅ = 3.99%, ¹³C₆ = 95.54%

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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			4/24/2024	4/22/2028

Henry Tieu
Product Quality Specialist

Toni Rantanen
Manager, Quality Assurance

Chanell Chu
Quality Assurance Associate