



CERTIFICATE OF ANALYSIS

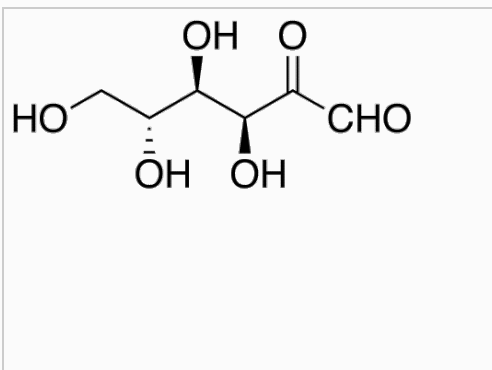
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1. Identification

Catalogue Number: K191000

Product: 2-Keto-D-Glucose

Structure:



CAS Number: 1854-25-7

Synonym: D-Glucosone; D-Arabino-hexos-2-ulose; Fructosone; Mannosone;

Molecular Formula:

C₆H₁₀O₆

Molecular weight:

178.14

Source of Product:

Synthetic

Solubility:

Methanol (Slightly), Water (Slightly)

Lot Number: 12-KMT-125-3

Purity: 95%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Off-White to Dark Brown Solid	Dark Yellow Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 38.09, %H: 6.05
HPLC Purity	Report Result	97.21% (ELSD)
Specific Rotation	Report Result	-13.2° (c = 1.1, Water)
Water Content	Report Result	8.9% by Karl Fischer

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
Evan Burns	Toni Rantanen	Chanell Chu	11/23/2021	11/21/2025

Evan Burns