

Product: D-(-)-Pantolactone

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: P182500 CAS Number: 599-04-2

Synonym: (3R)-Dihydro-3-hydroxy-4,4-dimethyl-2(3H)-

furanone; (-)-(R)-Pantolactone; (-)-2-Hydroxy-3,3-dimethyl-γ-butyrolactone; (-)-Pantoyl Lactone; (3R)-Tetrahydro-3-hydroxy-4,4-dimethylfuran-2-one; Pantothenic

Lactone; D-(-)- α -Hydroxy- β , β -dimethyl- γ -butyrolactone; (R)- α -Hydroxy- β , β -dimethyl- γ -

butyrolactone;

Molecular Formula:

C6H10O3

Molecular weight:

130.14

Source of Product:

N/A

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly), Methanol (Sparingly), Water (Sl

Purity: 97%

Storage Condition: 4°C

Structure:

O Me Me

Lot 1-LXM-169-1

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

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Additional Information:

Tests: Specifications: Results:

Appearance White to Off-White Solid Off-White Solid

NMRConforms to StructureConformsMSConforms to StructureConformsGC PurityReport Result100.00%

Water Content Report Result 0.7% by Karl Fischer

TGA Report Result See Additional Information

FT-IR Conforms to Structure Conforms

The sample was tested by TGA, initiated in a nitrogen environment.

The initial weight loss onset temperature was measured at 118.4°C.

The environment was changed to air at 800.0°C. The sample had 2.7%

of its weight remaining at 996.8°C.

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

Reviewed By
Reviewed By
C of A Approved By
Test Date
Retest Date

Farnaz Mahmoudi
Toni Rantanen
Christina Gouliaras 5/25/2023
5/23/2030