

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue M325948

Number:

Methyl (S)-Pyroglutamate

Structure:

Product:

Me(

Lot 711623403-3-2 Number:

This Product Is Stable To Be Shipping Condition: Shipped At Room Temperature CAS 4931-66-2 Number:

Synonym: 5-Oxo-L-proline Methyl Ester; L-Pyroglutamic

Acid Methyl Ester; (S)-5-(Methoxycarbonyl)-2pyrrolidinone; L-5-Oxoproline Methyl Ester; Methyl (S)-2-Oxopyrrolidine-5-carboxylate;

Methyl Pyroglutamate;

Molecular Formula:

C₆H₉NO₃

Molecular weight:

143.14

Source of Product:

N/A

Solubility:

Chloroform (Slightly), Ethanol

(Sparingly)

Results:

Purity: 98%

Storage Condition: 4°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications:

Clear Colourless Oil **Appearance** Colourless Oil

NMR Conforms to Structure Conforms MS Conforms to Structure Conforms

Specific Rotation Report Result $+9.1^{\circ}$ (c = 1.0, Ethanol)

GC Report Result 98.66%

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 \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

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

Chanell Chu Henry Tieu Toni Rantanen 7/14/2022 7/12/2026