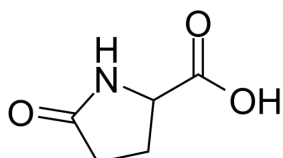


Certificate of Analysis

Product Name: DL-Pyroglutamic acid
Cat. No.: CS-W013454
CAS No.: 149-87-1
Batch No.: Lf0701143994
Chemical Name: Proline, 5-oxo-

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C₅H₇NO₃
Molecular Weight: 129.11
Storage: Storage temp. 2-8°C
Chemical Structure:



ANALYTICAL DATA

Appearance: White to off-white (Solid)
¹H NMR Spectrum: Consistent with structure
Purity (NMR): ≥98.0%
Water(KF): 0.42%
Residue on Ignition: 0.04%
Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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