

Certificate of Analysis

Reference Material & Standard

Product Name:	Gamma-Undecalactone	Catalogue Number:	CCFD201084
Synonyms:	N/A	Lot Number:	0304-RF-0112
CAS Number:	104-67-6	Expiry Date:	Mar 03, 2028
Molecular Formula:	C ₁₁ H ₂₀ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	184.28	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	GC	98.2%
Assay	qNMR	98.0%
Uncertainty		±2.0%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Dec 20, 2024

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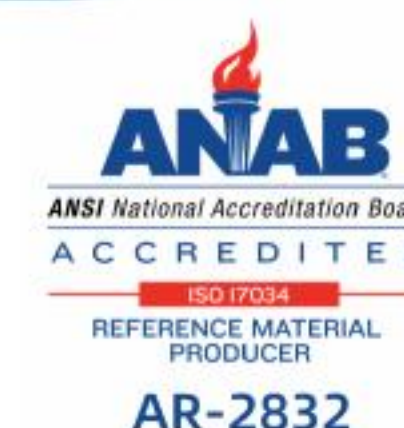
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