

Certificate of Analysis

Reference Material & Standard

Product Name:	Valeric Acid	Catalogue Number:	CCFD200195
Synonyms:	N/A	Lot Number:	0807-RE-0108
CAS Number:	109-52-4	Expiry Date:	Aug 10, 2027
Molecular Formula:	C ₅ H ₁₀ O ₂	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	102.13		

Warning:



Chemical Structure: N/A

Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	96.318%
Water Content	Karl Fischer	0.3398%
Assay		96.0%
Uncertainty		±2.0%

Comment:

CATO Research Chemicals Inc.

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$

Water Content is considered as absolute effect, GC purity is considered as relative effect.

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Aug 11, 2023

Date: Aug 14, 2023

Date: Aug 14, 2023



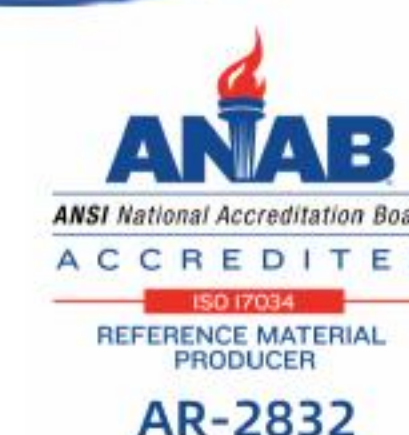
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