CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

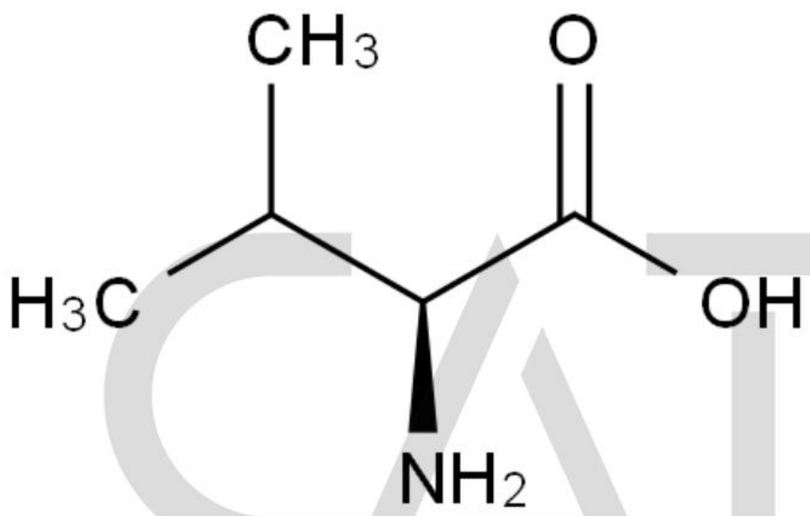
No.: 202512180086

Certificate of Analysis

Reference Material & Standard

Product Name:	L-Valine	**Catalogue Number:**	CCFD200632
Synonyms:	N/A	**Lot Number:**	1223-RG-0027
CAS Number:	72-18-4	**Expiry Date:**	Dec 24, 2029
Molecular Formula:	$C_5H_{11}NO_2$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	117.15	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	96.8%
Assay	qNMR	96.7%
Uncertainty		±0.7%

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Comment:

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: Alice Date: Dec 25, 2025

Reviewed by: Lisa Date: Dec 25, 2025

Approved by General Manager: David Date: Dec 25, 2025

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

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