

Certificate of Analysis

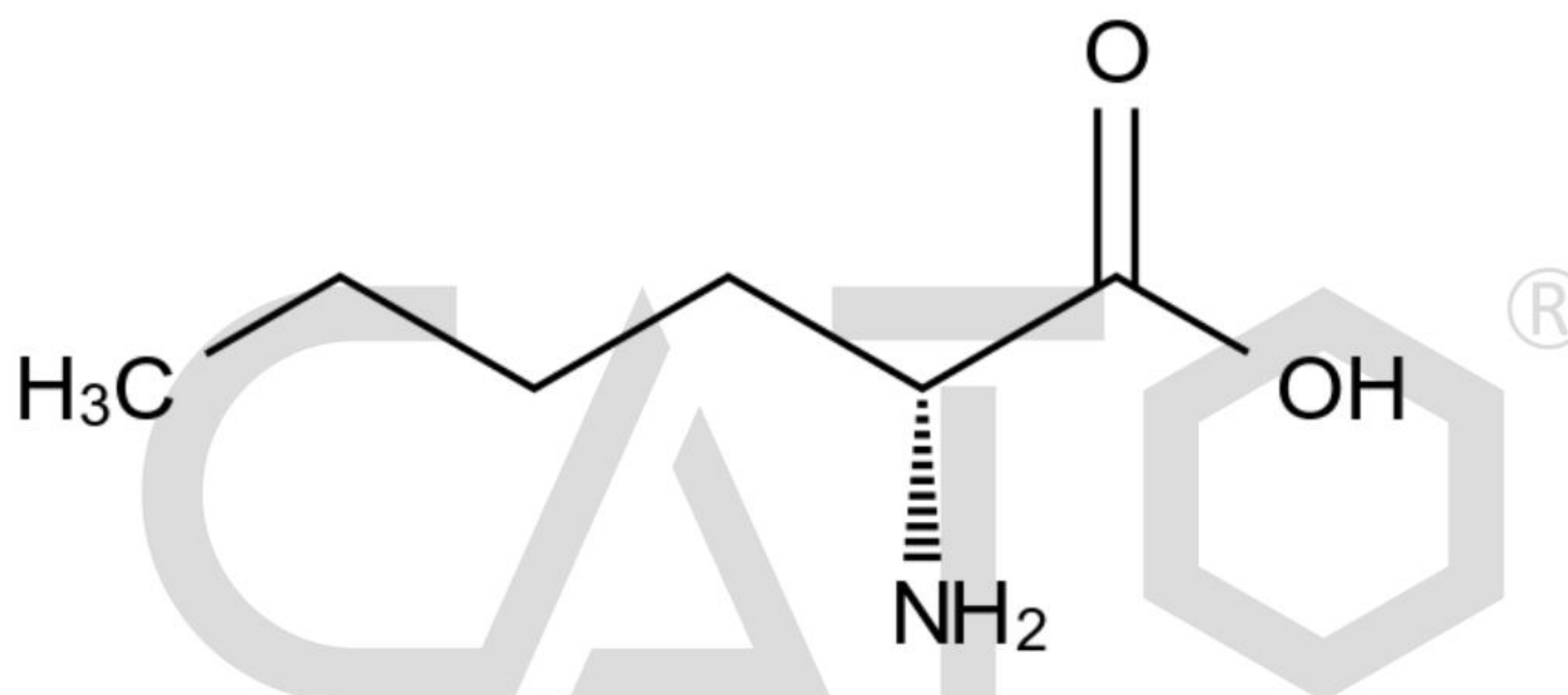
Reference Material & Standard

Product Name:	D-Norleucine	Catalogue Number:	CCFD200292
Synonyms:	N/A	Lot Number:	0421-RH-0014
CAS Number:	327-56-0	Expiry Date:	Apr 23, 2030
Molecular Formula:	C ₆ H ₁₃ NO ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	131.17	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	99.152%
Water Content	Karl Fischer	1.9227%
Assay		97.2%
Uncertainty		±0.3%

Comment:

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

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

Water Content is considered as absolute effect, ELSD 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: Apr 24, 2026

Date: Apr 27, 2026

Date: Apr 27, 2026



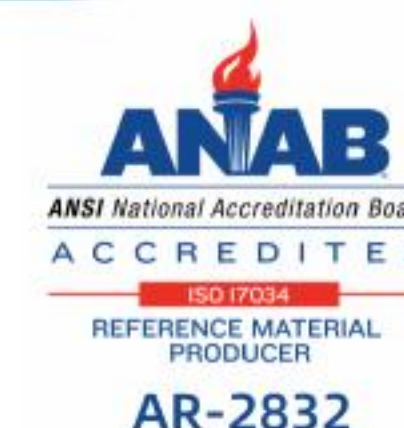
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