

Certificate of Analysis

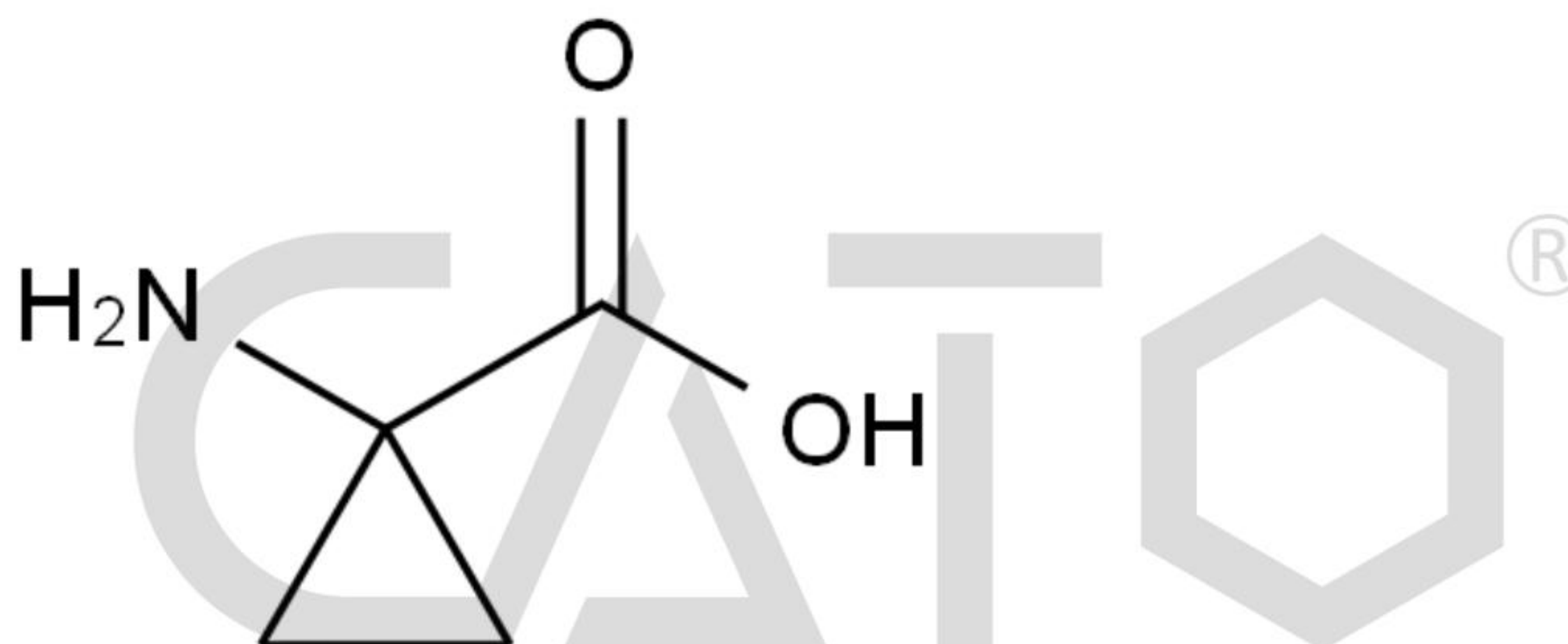
Reference Material & Standard

Product Name:	1-Aminocyclopropanecarboxylic Acid	Catalogue Number:	CCFD200877
Synonyms:	N/A	Lot Number:	0320-RE-0019
CAS Number:	22059-21-8	Expiry Date:	Mar 21, 2027
Molecular Formula:	C ₄ H ₇ NO ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	101.10	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	0.5263%
Assay		99.5%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content) * 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:

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Date: Mar 22, 2023

Date: Mar 23, 2023

Date: Mar 23, 2023



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