

Certificate of Analysis

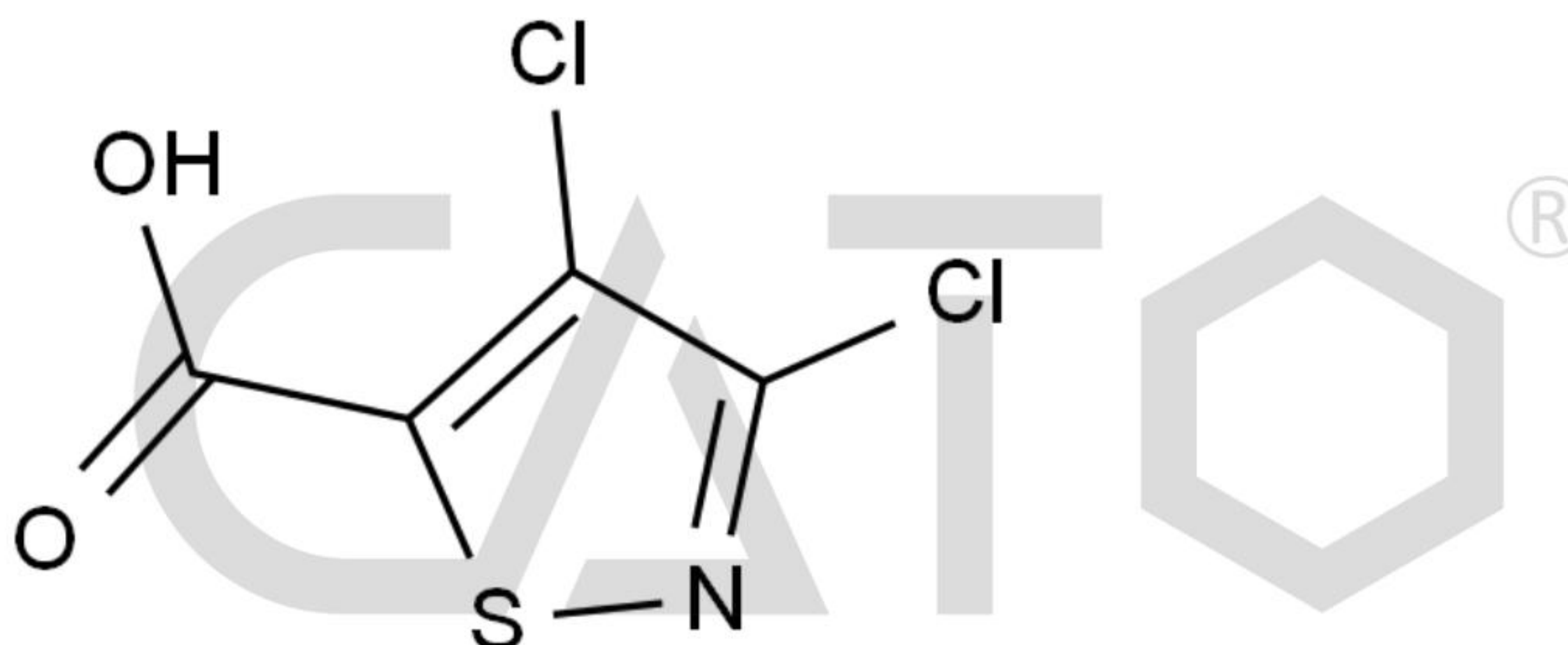
Reference Material & Standard

Product Name:	3,4-Dichloroisothiazole-5-carboxylic acid	Catalogue Number:	CS255045
Synonyms:	N/A	Lot Number:	1110-RD-0003
CAS Number:	18480-53-0	Expiry Date:	Nov 22, 2026
Molecular Formula:	C ₄ HCl ₂ NO ₂ S	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	198.03	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.737%
Water Content	Karl Fischer	9.9641%
Assay		89.8%
Uncertainty		±2.0%

Comment:

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

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

Water Content is considered as absolute effect, HPLC 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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David

Date: Nov 23, 2022

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