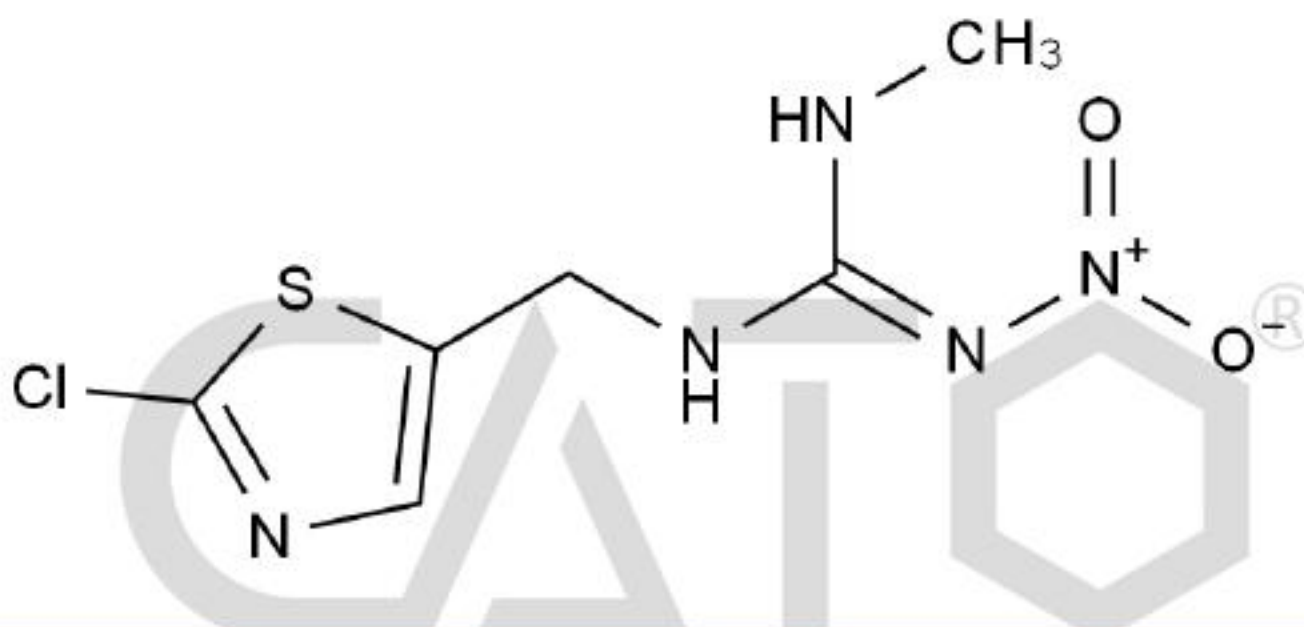


Certificate of Analysis

Reference Material & Standard

Product Name:	Clothianidin	Catalogue Number:	LCPD100239-AL
Synonyms:	N/A	Lot Number:	1218-SA-7603
CAS Number:	210880-92-5	Expiry Date:	Dec 17, 28
Molecular Formula:	C ₆ H ₈ ClN ₅ O ₂ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	249.68		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	97.314%
Uncertainty		±2.0%

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:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Dec 18, 24

Date: Dec 18, 24

Date: Dec 18, 24



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Official WeChat

Directions:

1. *Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
2. *Minimum sample size: 1mg is recommended as the minimum sample size.*
3. *Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
4. *Instructions for handling and correct use: Handling in a well-ventilated place.*

Document Version:

Revision No.	Date	Reason for Revision
01	Dec 18, 24	First release.


CATO Research Chemicals Inc.