

Certificate of Analysis

Reference Material & Standard

Product Name:	19 Pyrethroid Insecticide Mix Solution in Acetonitrile, 100µg/mL	Catalogue Number:	MCPD191031
Appearance:	Liquid	Lot Number:	1205-SA-7758
Solvent:	Acetonitrile	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Dec 04, 28		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	Cyfluthrin	68359-37-5	99.8	1.8
2	Tetramethrin	7696-12-0	99.5	1.8
3	Etofenprox	80844-07-1	99.8	1.8
4	Bifenthrin	82657-04-3	99.8	1.8
5	Cypermethrin	52315-07-8	100.1	1.8
6	Tralomethrin	66841-25-6	100.2	1.8
7	Resmethrin	10453-86-8	100.0	1.8
8	Silafluofen	105024-66-6	100.4	1.8
9	Phenothrin	26002-80-2	100.3	1.8
10	Cyphenothrin	39515-40-7	99.9	1.8
11	Fenpropathrin	39515-41-8	100.2	1.8
12	Deltamethrin	52918-63-5	99.9	1.8

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Dec 05, 24

Date: Dec 05, 24

Date: Dec 05, 24



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

Page 1 of 6



NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Acrinathrin	101007-06-1	100.5	1.8
14	tau-Fluvalinate	102851-06-9	99.6	1.8
15	Fenvalerate	51630-58-1	100.1	1.8
16	Permethrin	52645-53-1	100.2	1.8
17	Flucythrinate	70124-77-5	100.0	1.8
18	λ-Cyhalothrin	91465-08-6	99.7	1.8
19	Allethrin	584-79-2	100.4	1.8

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.

Directions:

1. General description: This product was dissolved in Acetonitrile and sub-packed in ampoule bottles. The outer packaging is plastic cylinder.
2. Characterization strategy: Certified reference materials were selected as raw materials. Characterization was based on the mass and volume of the components used in the preparation process. external standard method was used to verify the prepared value.
3. Metrological traceability: Through the use of raw materials with traceable purity values and tested/calibrated quality or volume measures, certified value results are ultimately traceable to SI basic units of mass kilogram (kg) and national statutory volume the unit of measurement liter (L).
4. 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.
5. Minimum sample size: For once use only.
6. Instructions for handling and correct use: Please shake thoroughly before use to ensure homogeneous.

Document Version:

Revision No.	Date	Reason for Revision
01	Dec 05, 24	First release.