

Certificate of Analysis

Reference Material & Standard

Product Name:	33 Pesticide Mix Solution in Acetone, 100µg/mL	Catalogue Number:	MCPD190939
Appearance:	Liquid	Lot Number:	0105-SA-7365
Solvent:	Acetone	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Jan 04, 29		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	Chlorpyrifos	2921-88-2	100.0	1.4
2	4,4'-DDE	72-55-9	100.0	1.4
3	2,4'-DDE	3424-82-6	100.4	1.4
4	2,4'-DDT	789-02-6	100.2	1.4
5	4,4'-DDT	50-29-3	99.8	1.4
6	4,4'-DDD	72-54-8	100.1	1.4
7	α-HCH	319-84-6	99.8	1.4
8	β-HCH	319-85-7	100.0	1.4
9	γ-HCH	58-89-9	100.2	1.4
10	δ-HCH	319-86-8	100.0	1.4
11	cis-Chlordane (α)	5103-71-9	100.0	1.4
12	Dichlorvos	62-73-7	100.2	1.4

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Jan 05, 25

Date: Jan 05, 25

Date: Jan 05, 25



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>



NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Bromophos-ethyl	4824-78-6	99.8	1.4
14	Bromophos	2104-96-3	99.7	1.4
15	Cyfluthrin	68359-37-5	100.4	1.4
16	Bifenthrin	82657-04-3	99.8	1.4
17	Cypermethrin	52315-07-8	99.8	1.4
18	Deltamethrin	52918-63-5	100.4	1.4
19	Acrinathrin	101007-06-1	99.9	1.4
20	Cyhalothrin	68085-85-8	99.6	1.4
21	Aldrin	309-00-2	100.0	1.4
22	trans-Chlordane (γ)	5103-74-2	100.1	1.4
23	Chlordimeform	6164-98-3	100.4	1.4
24	Chlorfenapyr	122453-73-0	99.7	1.4
25	Dieldrin	60-57-1	100.3	1.4
26	2,4'-DDD	53-19-0	99.5	1.4
27	Oxychlordane	27304-13-8	99.8	1.4
28	Dicloran	99-30-9	99.6	1.4
29	Chlorothalonil	1897-45-6	99.6	1.4
30	Dichlofluanid	1085-98-9	99.7	1.4
31	Chlorthal-dimethyl	1861-32-1	100.1	1.4
32	Dicofol	115-32-2	99.5	1.4
33	Bromopropylate	18181-80-1	100.0	1.4

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 Acetone 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	Jan 05, 25	First release.

