

Certificate of Analysis

Reference Material & Standard

Product Name:	22 Pesticide Mix Solution, 100µg/mL	Catalogue Number:	MCPD191003
Appearance:	Liquid	Lot Number:	1109-SA-7279
Solvent:	Methanol	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Nov 08, 28		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	2,4,6-Trichlorophenol	88-06-2	100.1	1.3
2	Bis(2-ethylhexyl) phthalate	117-81-7	99.7	1.3
3	Chlorpyrifos	2921-88-2	100.0	1.3
4	4,4'-DDE	72-55-9	100.3	1.3
5	2,4'-DDT	789-02-6	99.6	1.3
6	4,4'-DDT	50-29-3	99.8	1.3
7	4,4'-DDD	72-54-8	100.3	1.3
8	α-HCH	319-84-6	99.8	1.3
9	β-HCH	319-85-7	100.1	1.3
10	γ-HCH	58-89-9	99.9	1.3
11	δ-HCH	319-86-8	100.0	1.3
12	Heptachlor	76-44-8	100.1	1.3

Signature:

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Approved by General Manager:

David

Date: Nov 09, 24

Date: Nov 09, 24

Date: Nov 09, 24



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NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Pentachlorophenol	87-86-5	100.0	1.3
14	Dichlorvos	62-73-7	100.2	1.3
15	Dimethoate	60-51-5	100.0	1.3
16	Parathion-methyl	298-00-0	100.2	1.3
17	Malathion	121-75-5	99.9	1.3
18	Deltamethrin	52918-63-5	100.1	1.3
19	Parathion	56-38-2	99.8	1.3
20	Chlorothalonil	1897-45-6	100.1	1.3
21	Hexachlorobenzene	118-74-1	100.3	1.3
22	Atrazine	1912-24-9	99.6	1.3

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 Methanol 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	Nov 09, 24	First release.