

Certificate of Analysis

Reference Material & Standard

Product Name:	64 Pesticide Mix Solution in Ethyl acetate, 100µg/mL	Catalogue Number:	MCPD190832
Appearance:	Liquid	Lot Number:	0610-SA-7850
Solvent:	Ethyl acetate	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Jun 09, 28		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	Chlorpyrifos	2921-88-2	99.8	1.6
2	4,4'-DDE	72-55-9	100.5	1.6
3	2,4'-DDT	789-02-6	99.7	1.6
4	4,4'-DDT	50-29-3	100.1	1.6
5	4,4'-DDD	72-54-8	99.6	1.6
6	α-HCH	319-84-6	100.1	1.6
7	β-HCH	319-85-7	100.4	1.6
8	γ-HCH	58-89-9	100.4	1.6
9	δ-HCH	319-86-8	100.5	1.6
10	Quintozone	82-68-8	99.9	1.6
11	Fenthion	55-38-9	100.1	1.6
12	Isazofos	42509-80-8	100.2	1.6

Signature:

Prepared by:

Lisa

Reviewed by:

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Approved by General Manager:

David

Date: Jun 10, 24

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Date: Jun 10, 24



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NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Terbufos sulfone	56070-16-7	100.2	1.6
14	Monocrotophos	6923-22-4	100.4	1.6
15	Methamidophos	10265-92-6	99.6	1.6
16	Dichlorvos	62-73-7	99.9	1.6
17	Dimethoate	60-51-5	99.5	1.6
18	Ethoprophos	13194-48-4	100.1	1.6
19	Phosfolan	947-02-4	99.9	1.6
20	Phorate sulfone	2588-04-7	100.5	1.6
21	Phorate	298-02-2	99.6	1.6
22	Isofenphos-methyl	99675-03-3	99.9	1.6
23	Terbufos	13071-79-9	100.2	1.6
24	Parathion-methyl	298-00-0	100.0	1.6
25	Acephate	30560-19-1	100.2	1.6
26	Profenofos	41198-08-7	99.6	1.6
27	Terbufos sulfoxide	10548-10-4	100.1	1.6
28	Omethoate	1113-02-6	100.4	1.6
29	Phoxim	14816-18-3	100.2	1.6
30	Isocarbophos	24353-61-5	100.2	1.6
31	Cyfluthrin	68359-37-5	100.2	1.6
32	Bifenthrin	82657-04-3	100.2	1.6
33	Cypermethrin	52315-07-8	99.9	1.6
34	Fenpropathrin	39515-41-8	100.2	1.6
35	Deltamethrin	52918-63-5	100.3	1.6
36	Fenvalerate	51630-58-1	99.6	1.6
37	Cyhalothrin	68085-85-8	99.8	1.6
38	Acetamiprid	135410-20-7	99.8	1.6
39	Fipronil	120068-37-3	100.3	1.6
40	Fipronil sulfide	120067-83-6	100.0	1.6
41	Fipronil sulfone	120068-36-2	99.5	1.6
42	Chlorobenzuron	57160-47-1	100.2	1.6
43	Thiamethoxam	153719-23-4	100.2	1.6
44	Chlorfenapyr	122453-73-0	100.5	1.6
45	Cyromazine	66215-27-8	99.5	1.6
46	Parathion	56-38-2	100.5	1.6
47	Fonofos	944-22-9	100.5	1.6
48	Triazophos	24017-47-8	99.9	1.6
49	Methomyl	16752-77-5	100.5	1.6
50	Fipronil desulfinyl	205650-65-3	100.5	1.6
51	Chlorothalonil	1897-45-6	100.1	1.6
52	Azoxystrobin	131860-33-8	100.2	1.6
53	Pyrimethanil	53112-28-0	99.8	1.6

ISO 17034 : 2016

ISO 9001 : 2015

No.: 202406109850

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
54	Propiconazole	60207-90-1	100.2	1.6
55	Difenoconazole	119446-68-3	99.9	1.6
56	Triadimefon	43121-43-3	99.7	1.6
57	Metalaxyl	57837-19-1	100.4	1.6
58	Procymidone	32809-16-8	100.0	1.6
59	Prochloraz	67747-09-5	100.3	1.6
60	Phorate sulfoxide	2588-03-6	100.1	1.6
61	Pendimethalin	40487-42-1	99.6	1.6
62	Paclobutrazol	76738-62-0	99.7	1.6
63	Pyridaben	96489-71-3	99.8	1.6
64	Dicofol	115-32-2	99.7	1.6

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 Ethyl acetate 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	Jun 10, 24	First release.