

Certificate of Analysis

Reference Material & Standard

Product Name:	52 Pesticide Mix Solution in Acetonitrile, 100µg/mL	Catalogue Number:	MCPD190869
Appearance:	Liquid	Lot Number:	0116-SA-7115
Solvent:	Acetonitrile	Storage:	2°C ~ 8°C Protected from light and Sealed
Expiry Date:	Jan 15, 29		

Chemical Structure:

Warning:



N/A

NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
1	Chlorpyrifos	2921-88-2	99.8	1.8
2	Methamidophos	10265-92-6	99.8	1.8
3	Diazinon	333-41-5	100.4	1.8
4	Dichlorvos	62-73-7	100.3	1.8
5	Dimethoate	60-51-5	100.0	1.8
6	Fenitrothion	122-14-5	99.6	1.8
7	Phorate sulfone	2588-04-7	100.5	1.8
8	Phorate	298-02-2	100.0	1.8
9	Isofenphos-methyl	99675-03-3	100.0	1.8
10	Parathion-methyl	298-00-0	99.9	1.8
11	Acephate	30560-19-1	99.9	1.8
12	Profenofos	41198-08-7	99.6	1.8

Signature:

Prepared by:

Lisa

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Approved by General Manager:

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Date: Jan 16, 25

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NO.	Component	CAS No.	Certified Concentration Value (100µg/mL)	Uncertainty (%)
13	Omethoate	1113-02-6	99.7	1.8
14	Malathion	121-75-5	99.5	1.8
15	Phoxim	14816-18-3	99.9	1.8
16	Phosalone	2310-17-0	100.1	1.8
17	Isocarbophos	24353-61-5	100.3	1.8
18	Phosmet	732-11-6	100.4	1.8
19	Bifenthrin	82657-04-3	100.5	1.8
20	Fenpropathrin	39515-41-8	100.1	1.8
21	tau-Fluvalinate	102851-06-9	99.9	1.8
22	3-Hydroxycarbofuran	16655-82-6	99.8	1.8
23	Aldicarb sulfone	1646-88-4	99.9	1.8
24	Carbofuran	1563-66-2	100.5	1.8
25	Aldicarb-sulfoxide	1646-87-3	100.2	1.8
26	Carbaryl	63-25-2	99.5	1.8
27	Acetamiprid	135410-20-7	100.2	1.8
28	Imidacloprid	138261-41-3	100.4	1.8
29	Fipronil	120068-37-3	99.6	1.8
30	Fipronil sulfide	120067-83-6	99.7	1.8
31	Fipronil sulfone	120068-36-2	99.7	1.8
32	Diflubenzuron	35367-38-5	100.1	1.8
33	Chlorfluazuron	71422-67-8	99.7	1.8
34	Chlorobenzuron	57160-47-1	100.1	1.8
35	Thiamethoxam	153719-23-4	100.1	1.8
36	Aldicarb	116-06-3	100.2	1.8
37	Parathion	56-38-2	100.5	1.8
38	Triazophos	24017-47-8	100.2	1.8
39	Methomyl	16752-77-5	100.1	1.8
40	Fipronil desulfinyl	205650-65-3	99.8	1.8
41	Dimethomorph	110488-70-5	99.5	1.8
42	Azoxystrobin	131860-33-8	100.4	1.8
43	Pyrimethanil	53112-28-0	100.4	1.8
44	Iprodione	36734-19-7	99.6	1.8
45	Difenoconazole	119446-68-3	99.7	1.8
46	Triadimefon	43121-43-3	100.3	1.8
47	Prochloraz	67747-09-5	100.5	1.8
48	Phorate sulfoxide	2588-03-6	100.4	1.8
49	Pendimethalin	40487-42-1	100.2	1.8
50	Abamectin	71751-41-2	100.3	1.8
51	Emamectin benzoate	155569-91-8	99.9	1.8
52	Pyridaben	96489-71-3	100.5	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	Jan 16, 25	First release.