



# ALLER AQUA RESEARCH

## Trial Report



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# Contract Research

## FISH FEEDING TRIAL

Contract: No 6-20/HR/49-12 (ref. no. public procurement 222961)

Internal Code AAR: 207\_AI17

### 1. Objective

The Effect of Fulvic Acid Based Feed Material in Rainbow Trout Farming

### 2. Materials and Methods

Test material	Fulvic Acid
Delivered by	Bioful
Feed formulation by	ALLER AQUA RESEARCH GmbH, Additive was applied according to the protocol
Pellet size (mm)	3 mm
Experimental facility	ALLER AQUA RESEARCH GmbH
Fish species	Rainbow trout ( <i>O. mykiss</i> )
Gender	All Female
Experimental setup	According to the technical description (Annex 1 of the contract No 6-20/HR/49-12 (ref. no. public procurement 222961))
Adaptation period	Two weeks before the trial
Trial period	21.11.2020 – 10.01.2021 (51 days)
Feeding	Feeding until apparent satiation, twice a day
Water quality	Water quality at optimal level (Table 1)

### 3. Results

Nutrient composition of the feed	Nutrient composition of the feed (Weender analysis as well as the fatty acid profile) meets the nutritional requirements of rainbow trout (NRC 2011). Control and test feed were formulated isonitrogenous and isocaloric (Table 2). The only difference was the supplementation of the test diet with fulvic acid (in total: 0.4%) in accordance with the provided guidelines. Fatty acid profile and vitamin B6 and B12 levels are given in table 3.
Pesticides, glyphosate, and heavy metals in the feed	Performed pesticides multi-residue analyses showed, that no pesticides were detected above limit of quantification (Table 4 & Appendix). For glyphosate, an extra single test was operated. The value was below the limit of quantification (Table 4). Further values for heavy metals are given in table 4.
Fish performance	Fish were stocked and managed according to the technical requirements of the contract and best practice standards of AAR. Fish were fed until apparent satiation twice a day. Uneaten pellets were recounted. At optimal environmental conditions (Table 1), initial fish sizes and biomasses have been triplicated and the trial was closed after 52 days (Table 5). No mortalities neither in the control nor in test feed group were observed (Table 5). Daily feed intake (DFI), specific growth rate (SGR) and feed conversion ratio (FCR) did not differ significantly ( $P>0.05$ ), although a trend for improved FCR and SGR was found in the test diet group (Table 5).
Condition factor (CF) and hepatosomatic index (HSI)	Fish fed the test diet have been found leaner with a significantly reduced condition factor ( $p<0.05$ ). In line with a leaner fish, a tendency for a lower HSI was detected ( $p>0.05$ , Table 5). Please note, that these data represent an extra service, as they are not part of contractual agreement.
Slaughter & fillet yield	Slaughter and fillet yield (%) did not differ significantly among the treatments ( $p>0.05$ ), although fillet yield of fish fed the test diet have shown a trend for an increased fillet yield (Table 5).

Whole body composition and nutritional profile of the fish fillet	<p>Proximate whole-body composition of fish did not differ among the treatments (<math>p&gt;0.05</math>, Table 6). However, nutrient composition of the fish fillet provides a significantly higher protein content (<math>p&lt;0.05</math>) compared to fish filet of the control group (Table 7).</p> <p>Fatty acid profile and vitamin level have not been found different among the treatments (<math>p&gt;0.05</math>).</p>
Pesticides, glyphosate, and heavy metals in the fish fillet	<p>Performed pesticides multi-residue analysis provided, that no pesticides have been detected above the limit of quantification (Table 8 &amp; Appendix). For glyphosate, an extra single test was operated. The value was below the limit of quantification (Table 8). Further values for heavy metals are given in table 8 without statistical significances (<math>p&gt;0.05</math>).</p>

#### 4. Conclusion

The application of fulvic acid as an additive in test diets for rainbow trout indicates a trend for improved feed conversion and growth at optimal health and environmental conditions. Leaner fish (=lower condition factor) and a tendency for a reduced liver size (HSI) have been observed for fish fed the fulvic-acid test diet. Furthermore, a trend for an increased fillet yield in line with a higher protein content of the fillet in the test diet group suggests, that fulvic acid has the potential to improve fish performance and protein-content of the fillet during longer term applications at the farm.

Operating the industrial dietary standards in rainbow trout nutrition, fulvic acid-mediated effects on pesticides, glyphosates and heavy metals could not be expected.

Büsum, 24.03.2021



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COO Aller Aqua Research GmbH

**Table 1.** Water parameters during the experimental trial in the RAS.

Parameter	Average	S.D.
Temp. (°C)	13.3	0.8
Oxygen (mg/L)	9.1	0.6
CO <sub>2</sub> (mg/L)	2.8	0.8
NH <sub>4</sub> <sup>+</sup> (mg/L)	0.3	0.2
NO <sub>2</sub> <sup>-</sup> (mg/L)	0.3	0.2
NO <sub>3</sub> <sup>-</sup> (mg/L)	83	26
pH	7.6	0.1
Hardness (°dH)	9.5	1.1

**Table 2.** Nutritional composition of the control and test (fulvic acid) diet (% OM).

	Control diet	Test diet
Moisture	3.4	3.6
Crude ash	9.7	9.7
Crude protein (N*6.25)	45.9	46.8
Crude fat	22.3	23.3
Crude fibre	0.7	0.5
NfE	18	16.1

**Table 3.** Fatty acid analysis and vitamin B6/12 level of control and test (fulvic acid) diet (mg/kg).

	Control diet	Test diet
Octanoic acid (C 8:0)	<50	<50
Capric acid (C 10:0)	<50.0	<50.0
Lauric acid (C 12:0)	414	393
Myristic acid (C 14:0)	4,960	4,740
Myristoleic acid C 14:1	104	105
Pentadecanoic acid (C 15:0)	420	407
Palmitic acid (C 16:0)	21,200	20,500
Hexadecanoic acid trans-isomers C 16:1 trans	<50.0	<50.0
Palmitoleinic acid C 16:1	5,720	5,460
Hexadecadioic acid C16:2 (n-4)	454	448
Hexadecatrienic acid C16:3 omega-3	102	96.1
Margaric acid (C 17:0)	668	645
Heptadecenoic acid (C 17:1)	95.5	86.9
Stearic acid (C 18:0)	5,570	5,460

Octadecenoic acid trans-isomers C 18:1 trans	894	894
Oleic acid C 18:1	72,800	70,300
Petroselinic acid C 18:1	<50.0	<50.0
cis-vaccenic acid C 18:1	6,240	6,170
Octadecadienoic acid trans-isomers C 18:2 trans	652	679
Linolic acid C 18:2 omega-6	31,400	30,400
Octadecatetrienoic acid, trans-isomers C 18:3 trans	177	162
alpha-linolenic acid C 18:3 omega-3	13,800	13,300
gamma-linolenic acid C 18:3 omega-6	200	189
Octadecatetraenoic acid C 18:4 omega-3	1,530	1,450
Arachic acid C 20:0	870	829
Eicosenoic acid C 20:1	8,310	8,060
Eicosadienoic acid C 20:2 omega-6	1,860	1,820
Eicosatrienoic acid C 20:3 omega-3	1,130	1,070
Eicosatrienoic acid C 20:3 omega-6	449	422
Eicosatetraenoic acid C 20:4 omega-3	1,600	1,580
Eicosatetraenoic acid C 20:4 omega-6	540	536
Eicosapentaenoic acid C 20:5 omega-3	6,140	5,860
Henicosanoic acid C 21:0	55.7	68.7
Behenic acid C 22:0	303	283
Docosenoic acid trans-isomers C 22:1 trans	154	173
Docosenoic acid C 22:1	1,180	1,160
Cetoleinic acid C 22:1	4,400	4,250
Docosadienoic acid C 22:2 omega-6	169	247
Docosatrienoic acid C 22:3	<50.0	<50.0
Docosatetraenoic acid C 22:4 omega-6	142	120
Docosapentaenoic acid C 22:5 omega-3	2,530	2,440
Docosapentaenoic acid C 22:5 omega-6	313	314
Docosahexaenoic acid C 22:6 omega-3	9,250	8,960
Tricosanoic acid C 23:0	54	56.7
Lignoceric acid C 24:0	220	209
Nervonic acid C 24:1	828	799
Sum saturated fatty acids	34,700	33,600
Sum monounsaturated fatty acids	101,000	97,500
Sum polyunsaturated fatty acids	72,400	70,100
Total sum of fatty acids	208,000	201,000
Sum trans fatty acids	1,880	1,910
Omega 3 fatty acids	36,100	34,800
Omega 6 fatty acids	35,100	34,000
Vitamin B6 (calc. as pyridoxine-HCl)	16.9	16.7
Vitamin B12 (based on cyanocobalamin, µg/kg)	110	96.2

**Table 4.** Pesticides, glyphosate, heavy metals and further chemical elements of the control and test (fulvic acid) diet (mg/kg OM). Numbers are only given for parameters above detection limit. Complete list of analysed pesticides is shown in the appendix.

	Control diet	Test diet
Pesticides*	0	0
Glyphosate**	<0.010	<0.010
Aluminium (Al)	841	865
Antimony (Sb)	<0.050	<0.050
Arsenic (As)	4.43	4.49
Barium (Ba)	3.4	3.5
Boron (B)	5.64	4.66
Cadmium (Cd)	0.128	0.131
Chromium (Cr)	2.3	2.41
Cobalt (Co)	0.255	0.264
Copper (Cu)	4.98	4.9
Lead (Pb)	0.221	0.221
Mercury (Hg)	0.081	0.083
Molybdenum (Mo)	1	0.993
Nickel (Ni)	0.579	0.731
Vanadium (V)	5.78	5.27
Sodium (Na)	5,030	5,070
Potassium (K)	7,260	7,210
Magnesium (Mg)	1,450	1,430
Calcium (Ca)	17,600	18,200
Sulfur, total (S)	4,870	4,950
Iron (Fe)	985	1,020
Zinc (Zn)	34.8	33
Manganese (Mn)	16	15.9
Phosphorus (P, %)	1.19	1.18

\*in the range of performed pesticides multi-residue test, no pesticides were detected above limit of quantification; \*\*additional, single method was applied, value remains below detection limit

**Table 5.** Performance parameter of fish fed control diet or test (fulvic acid) diet.

	Control diet		Test diet	
	Average	S.D.	Average	S.D.
Initial fish size (g) <sup>1</sup>	56.62	4.57	56.62	4.57
Initial stocking density (kg/m <sup>3</sup> )	7.09	0.02	7.07	0.02
Final fish size (g) <sup>2</sup>	192.07	1.64	194.64	0.40
Final stocking density (kg/m <sup>3</sup> )	24.04	0.15	24.29	0.14
Weight gain (%)	237.24	2.90	243.77	0.72
Daily feed intake (DFI % BW/day)	2.04	0.04	2.01	0.01
Specific growth rate (SGR % BW/day)	2.40	0.02	2.42	0.00
Feed conversion ratio (FCR)	0.85	0.01	0.83	0.00
Mortality (% of individuals)	0.00	0.00	0.00	0.00
Condition factor	1.30 <sup>a</sup>	0.04	1.23 <sup>b</sup>	0.04
Hepatosomatic index (HSI %)	1.39	0.29	1.31	0.10
Slaughter yield (SY, % gutted fish)	85.81	1.71	85.69	1.10
Fillet yield (FY, % fillet)	50.98	2.20	52.50	1.08

Superscripts indicate significant differences (n=3 (tanks)/6 (fish), p<0.05)

<sup>1</sup> based on sample size of 60 fish (S.D. shows deviation of individual fish size)

<sup>2</sup> based on calculated fish weight (S.D. shows deviation of tanks (triplicates))

**Table 6.** Nutritional whole-body composition of fish (% OM).

	Initial sample	Control diet		Test diet	
		Average	S.D.	Average	S.D.
Moisture/ Water content	71.9	68.17	0.81	67.38	1.35
Crude ash	2.2	1.88	0.08	1.75	0.23
Crude protein (N*6.25)	17.4	17.37	0.45	17.62	0.51
Total fat	8.1	11.67	1.09	12.37	1.94
Crude fibre	0.00	0.00	0.00	0.00	0.00
N-free substances	0.4	0.92	0.41	0.93	0.51

Superscripts indicate significant differences between fish fed control and test diet (n=6, p<0.05), initial fillet: pooled sample

**Table 7.** Nutritional composition (% OM) and fatty acid analysis and vitamin B6/12 level of fish fillets at the end of the trial (mg/kg).

Weender analysis (% OM)	Control diet		Test diet	
	Average	S.D.	Average	S.D.
Moisture/ Water content	73.25	0.74	72.83	0.42
Crude ash	1.22	0.04	1.25	0.05
Crude protein (N*6.25)	19.13 <sup>a</sup>	0.16	19.38 <sup>b</sup>	0.21
Total fat	6.27	0.94	6.33	0.83
Crude fibre	0.00	0.00	0.00	0.00
N-free substances	0.23	0.26	0.37	0.41
<i>Fatty acid composition (mg/kg)</i>				
Octanoic acid C 8:0	0.00	0.00	0.00	0.00
Capric acid C 10:0	0.00	0.00	0.00	0.00
Lauric acid C 12:0	53.80	43.55	50.90	43.58
Myristic acid C 14:0	1,014.50	372.25	1,018.33	439.61
Myristoleic acid C 14:1	0.00	0.00	9.50	23.27
Pentadecanoic acid C 15:0	76.85	46.58	81.82	34.15
Palmitic acid C 16:0	6,121.67	2,120.31	6,006.67	2,385.78
Hexadecanoic acid trans-isomers C 16:1 trans	10.07	24.66	0.00	0.00
Palmitoleinic acid C 16:1	1,950.00	694.35	1,881.67	757.45
Hexadecadioic acid C16:2 (n-4)	41.55	46.24	21.82	34.18
Hexadecatrienic acid C16:3 omega-3	0.00	0.00	0.00	0.00
Margaric acid C 17:0	105.37	39.80	105.10	40.09
Heptadecenoic acid C 17:1	0.00	0.00	0.00	0.00
Stearic acid C 18:0	1,511.00	490.92	1,501.67	603.34
Octadecenoic acid trans-isomers C 18:1 trans	274.17	96.07	258.83	100.89
Oleic acid C 18:1	14,745.00	5,200.55	14,846.67	6,150.47
Petroselinic acid C 18:1	0.00	0.00	0.00	0.00
cis-vaccenic acid C 18:1	1,381.67	472.71	1,392.83	551.42
Octadecadienoic acid trans-isomers C 18:2 trans	112.17	33.73	84.48	21.67
Linolic acid C 18:2 omega-6	4,756.67	1,743.65	4,890.00	2,015.00
Octadecatetraenoic acid, trans-isomers C 18:3 trans	101.92	34.77	99.58	35.11
alpha-linolenic acid C 18:3 omega-3	1,641.17	627.31	1,670.00	710.66
gamma-linolenic acid C 18:3 omega-6	81.85	48.11	89.37	39.70
Octadecatetraenoic acid C 18:4 omega-3	246.83	93.43	255.67	124.65
Arachic acid C 20:0	57.62	46.24	65.38	42.67
Eicosenoic acid C 20:1	1,469.17	486.63	1,486.50	599.02
Eicosadienoic acid C 20:2 omega-6	526.00	192.84	521.83	215.41
Eicosatrienoic acid C 20:3 omega-3	221.00	86.32	221.00	89.65
Eicosatrienoic acid C 20:3 omega-6	247.00	99.28	248.17	111.95

Eicosatetraenic acid C 20:4 omega-3	264.83	114.41	271.17	125.32
Eicosatetraenic acid C 20:4 omega-6	203.33	68.52	193.00	78.75
Eicosapentaenic acid C 20:5 omega-3	617.33	228.24	600.00	224.41
Henicosanoic acid C 21:0	126.72	50.37	112.50	54.91
Behenic acid C 22:0	0.00	0.00	10.17	24.90
Docosenoic acid trans-isomers C 22:1 trans	0.00	0.00	0.00	0.00
Docosenoic acid C 22:1	165.80	57.76	166.17	73.14
Cetoleinic acid C 22:1	427.67	157.13	427.00	202.02
Docosadienic acid C 22:2 omega-6	26.82	43.53	19.22	29.98
Docosatrienoic acid C 22:3	0.00	0.00	0.00	0.00
Docosatetraenic acid C 22:4 omega-6	0.00	0.00	8.88	21.76
Docosapentaenic acid C 22:5 omega-3	260.00	87.20	266.67	108.88
Docosapentaenic acid C22:5 omega-6	74.23	42.53	75.23	29.83
Docosahexaenic acid C 22:6 omega-3	3,125.00	1,100.98	3,095.00	1,226.37
Tricosanoic acid C 23:0	0.00	0.00	0.00	0.00
Lignoceric acid C 24:0	0.00	0.00	0.00	0.00
Nervonic acid C 24:1	158.23	55.57	107.37	61.62
Sum saturated fatty acids	9,070.00	3,199.86	8,958.33	3,668.89
Sum monounsaturated fatty acids	20,600.00	7,191.38	20,600.00	8,417.13
Sum polyunsaturated fatty acids	12,551.67	4,630.52	12,628.33	5,211.72
Total sum of fatty acids	42,200.00	14,991.46	42,166.67	17,261.60
Sum trans fatty acids	498.33	175.56	443.00	151.29
Omega 3 fatty acids	6,378.33	2,315.16	6,375.00	2,590.28
Omega 6 fatty acids	5,915.00	2,208.16	6,040.00	2,520.53
Ratio Omega 3/Omega 6	1.08	0.04	1.06	0.03
Vitamin B6 (calc. as pyridoxine-HCl)	2.71	0.42	2.86	0.23
Vitamin B12 (based on cyanocobalamin, µg/kg)	41.63	3.99	41.15	6.93

Superscripts indicate significant differences (n=6, p<0.05)

**Table 8.** Pesticides, glyphosate, heavy metals and further chemical elements of fish fillets fed with the control and test (fulvic acid) diet (mg/kg OM). Numbers are only given for parameters above detection limit. Complete list of analysed pesticides is given in the appendix.

Parameter	Control diet		Test diet	
	Average	S.D.	Average	S.D.
Pesticides*	0		0	
Glyphosate**	<0.010		<0.010	
Aluminium (Al)	0.00	0.00	0.00	0.00
Antimony (Sb)	0.00	0.00	0.00	0.00
Barium (Ba)	0.00	0.00	0.00	0.00
Boron (B)	0.00	0.00	0.00	0.00
Chromium (Cr)	0.01	0.01	0.00	0.00
Cobalt (Co)	0.00	0.00	0.00	0.00
Copper (Cu)	0.38	0.04	0.43	0.05
Manganese (Mn)	0.11	0.03	0.12	0.01
Molybdenum (Mo)	0.00	0.00	0.00	0.00
Nickel (Ni)	0.00	0.00	0.00	0.00
Vanadium (V)	0.00	0.00	0.00	0.00
Zinc (Zn)	4.40	0.41	4.09	0.14
Sodium (Na)	0.02	0.00	0.02	0.00
Potassium (K)	0.41	0.01	0.41	0.01
Magnesium (Mg)	0.03	0.00	0.03	0.00
Calcium (Ca)	0.02	0.01	0.01	0.01
Sulfur, total (S)	0.20	0.01	0.20	0.01
Iron (Fe)	0.00	0.00	0.00	0.00
Phosphorus (P, %)	0.25	0.01	0.25	0.00
Cadmium (Cd)	0.01	0.02	0.00	0.00
Lead (Pb)	0.00	0.00	0.00	0.00
Mercury (Hg)	0.06	0.00	0.06	0.00
Arsenic (As)	3.13	0.25	3.08	0.21

Superscripts indicate significant differences (n=6, p<0.05), \*in the range of performed pesticides multi-residue-analysis, no pesticides were detected above limit of quantification, \*\*additional, single method was applied, value remains below detection limit

## Appendix

### Pesticides Multi-Residue-Method

In the range of performed analysis no pesticides were detected above limit of quantification in the control and test diet.

Parameter	Unit	LOQ standard	Method	Control diet	Test diet
1-Naphthylacetic amide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
1-naphthylacetamide and 1-naphthylacetic acid	mg/kg		calculated	n.q.	n.q.
2-Naphtoxyacetic acid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
2-Phenylphenol	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
2,4-D	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
2,4-DB	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
2,4,5-T	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Carbofuran	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum carbofuran, hydroxycarbofuran	mg/kg		calculated	n.q.	n.q.
3-Hydroxy-Carbofuran	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
3-Chloroaniline	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
4-Chlorophenoxyacetic acid (4-CPA)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Acephate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Acetamiprid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Acibenzolaracid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Acibenzolar-S-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum acibenzolar-S-methyl and acibenzolar acid	mg/kg		calculated	n.q.	n.q.
Alachlor	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Aldicarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Aldicarb-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Aldicarb-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum aldicarb/-sulfon/-sulfoxid	mg/kg		calculated	n.q.	n.q.
Aldrin	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Dieldrin	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum aldrin, dieldrin	mg/kg		calculated	n.q.	n.q.
Ametoctradin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ametryn	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Aminocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Amitraz	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
N-2,4-Dimethylphenyl-N-methylformamidine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
2,4-Dimethylphenylformamide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum amitraz	mg/kg		calculated	n.q.	n.q.
Anthraquinone	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Atrazine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Azaconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Azadirachtin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Azinphos-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Azinphos-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Azoxystrobin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Benalaxyll	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bendiocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Benfluralin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bensulfuron-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bentazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
6-hydroxy-Bentazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
8-hydroxy-Bentazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Bentazone	mg/kg		calculated	n.q.	n.q.
Benthiavalicarb-isopropyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Benzovindiflupyr	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bifenazate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bifenazate-diazene	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum bifenazate	mg/kg		calculated	n.q.	n.q.
Bifenox	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bifenthrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Biphenyl (Diphenyl)	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bitertanol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bixafen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Boscalid	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bromacil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bromophos-ethyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bromophos-methyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bromopropylate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Bromoxynil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bromuconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Bupirimate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Buprofezin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Butafenacil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Butocarboxim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Butocarboxim-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Butoxycarboxim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cadusafos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Captafol	mg/kg	0.05	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.050	<0.050
Captan	mg/kg	0.02	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.020	<0.020
Tetrahydrophthalimide (THPI)	mg/kg	0.05	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.050	<0.050
Sum Captan and Tetrahydrophthalimide (THPI)	mg/kg		calculated	n.q.	n.q.

Carbaryl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Carbophenothion	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Carbosulfan	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Carboxin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Carboxin	mg/kg		calculated	n.q.	n.q.
Chlorantraniliprol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chlorobenzilate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Sum carbendazim/benomyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chlordane alpha	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Chlordane gamma	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum of cis- and trans-chlordane (F) (R)	mg/kg		calculated	n.q.	n.q.
Chlordane oxy	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Chlorfenson	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorfluazuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chloridazon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chlorphenvinphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum chloridazon	mg/kg		calculated	n.q.	n.q.
Chlorimuron-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chlormephos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorobuphame	mg/kg	0.02	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.020	<0.020
Chloroneb	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorotoluron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Chlorpropham	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorpyrifos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorpyrifos-methyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorthalonil	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorthion	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlorthiophos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Chlozolinate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Cinosulfuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clethodim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sethoxydim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Clethodim	mg/kg		calculated	n.q.	n.q.
Climbazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clodinafop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clodinafop-propargyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clofentezin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clomazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cloquintocet-mexyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Clothianidin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Coumaphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Crimidine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyanazin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyanofenphos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Cyantraniliprol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyazofamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyclanilid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cycloate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cycloxydim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum cycloxydim	mg/kg		calculated	n.q.	n.q.
Cyflufenamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyflumetofen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyfluthrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Cymoxanil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cypermethrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Cyproconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Cyprodinil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
o,p-DDD	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
o,p-DDE	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
o,p-DDT	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
p,p-DDD	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
p,p-DDE	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
p,p-DDT	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum DDT-isomers	mg/kg		calculated	n.q.	n.q.
Deltamethrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Demeton-S-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Demeton-S-methyl-sulfone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Oxydemeton-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum oxydemeton-methyl, demeton-S-methyl-sulfon	mg/kg		calculated	n.q.	n.q.
Desethylatrazine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Desmedipharm	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Desmetryn	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Diazinon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dichlobenil	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Dichlofenthione	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Dichlofuanid	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Dichlorprop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dichlorvos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Diclobutrazole	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Diclofop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Dicloran	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Dicofol	mg/kg	0.02	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.020	<0.020
Dicrotrophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diethofencarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diethyltoluamide (DEET)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Difenacoum	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Difenoconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diflubenzuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diflufenican	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dimethenamide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dimethoate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dimethomorph	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dimethylaminosulfotoluide (DMST)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tolyfluanide	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Sum tolyfluanid	mg/kg		calculated	n.q.	n.q.
Dimoxystrobin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diniconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dinocap	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dinotefuran	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dinoterp	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diphenamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diphenylamine	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Dipropetryn	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Disulfoton	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Disulfoton-sulfona	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Disulfoton-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Disulfoton	mg/kg		calculated	n.q.	n.q.
Ditalimfos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Diuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
DMSA	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dodemorph	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Dodin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Emamectin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Endosulfan alpha	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Endosulfan beta	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Endosulfansulfat	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum endosulfan-alpha, -beta, -sulfat	mg/kg		calculated	n.q.	n.q.
Endrin	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Endrin Ketone	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
EPN	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010

Epoxiconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
EPTC	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethiofencarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethiofencarb-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethiofencarb-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethiprole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethirimol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ethoprophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Etofenprox	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Etoxazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Etrimfos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Famoxadone	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fenamidone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenamiphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenamiphos-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenamiphos-sulphone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum fenamiphos, -sulphoxide, - sulphone	mg/kg		calculated	n.q.	n.q.
Fenarimole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenazaquine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenbuconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenchlorphos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fenchlorphos-oxon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum fenchlorphos	mg/kg		calculated	n.q.	n.q.
Fenhexamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenitrothion	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fenobucarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenoxyprop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenoxy carb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenpiclonil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenpropothrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fenpropidin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenpropimorph	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenpyrazamin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenpyroximate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fensulfotethion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fensulfotethion-oxon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fensulfotethion-oxon-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fensulfotethion-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenthion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Fenthion-oxone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenthion-oxon-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenthionoxonsulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenthion-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenthion-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum fenthion	mg/kg		calculated	n.q.	n.q.
Fenuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fenvalerate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fipronil	mg/kg	0.002	EN 15662 : 2018 (mod.)	<0.002	<0.002
Fipronil-sulfon	mg/kg	0.002	EN 15662 : 2018 (mod.)	<0.002	<0.002
Sum fipronil, -sulfone (MB 46136)	mg/kg		calculated	n.q.	n.q.
Flonicamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
TFNA	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
TFNG	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Flonicamid	mg/kg		calculated	n.q.	n.q.
Fluazifop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluazifop-butyle	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluazinam	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flubendiamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flucythrinate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Fludioxonil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flufenacet	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flufenacet ESA (ethansulfonic acid)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flufenacet OA (Oxalamic Acid)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flufenacet-alcohol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum flufenacet	mg/kg		calculated	n.q.	n.q.
Flufenoxuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flufenzin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluometuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluopicolide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluopyram	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flupyrifurfuron-methyle	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluquinconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluroxypyr	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flurprimidol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flusilazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluthiacet-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flutolanil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Flutriafol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fluxapyroxad	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
FM 6-1	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Triflumizole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum triflumizole and FM 6-1	mg/kg		calculated	n.q.	n.q.
Folpet	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Phthalimide	mg/kg	0.02	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.020	<0.020
Sum of Folpet and Phthalimid	mg/kg		calculated	n.q.	n.q.
Forchlorfenuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fonofos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Formetanate(hydrochloride)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Formothion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fosthiazat	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Fuberidazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Furalaxyll	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Furathiocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Halofenozid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Haloxyfop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Haloxyfop methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Haloxyfop-ethoxy-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
HCH-alpha	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
HCH-beta	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
HCH-delta	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
HCH-epsilon	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Hexachlorobenzene	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
HCH-gamma (Lindane)	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Heptachlor	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Heptachlorepoxyde-cis	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Heptachlorepoxyde-trans	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum heptachlor, heptachlorepoxyde	mg/kg		calculated	n.q.	n.q.
Heptenophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Hexaconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Hexaflumuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Hexazinone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Hexithiazox	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Icaridin (Picaridin)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imazalil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imazamox	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imazaquine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imazethapyr	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imibenconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Imidacloprid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Indoxacarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Iodosulfuron-methyl-sodium	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ioxynil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Iprobenfos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Iprodion	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Iprovalicarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isazofos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isocarbophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isodrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Isofenphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isofenphos-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isoproc carb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isoprothiolane	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isoproturon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
isoxaben	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isoxadifen-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Isoxathion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Kresoxim-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
lambda-Cyhalothrine	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Landrin (3,4,5-Trimethacarb)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Lenacil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Leptophos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Linuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Malaoxon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Malathion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum of malathion and malaoxon	mg/kg		calculated	n.q.	n.q.
Mandestrobin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mandipropamid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
MCPA	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
MCPB	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum MCPA, MCPB	mg/kg		calculated	n.q.	n.q.
Mecarbame	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mecoprop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mefenpyr-diethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mepanipyrim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mepronil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Meptyldinocap	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metaflumizone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metalaxyl (Sum of Metalaxyl and Metalaxyl-M)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metamitron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metazachlor	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Sum metazachlor	mg/kg		calculated	n.q.	n.q.
Metconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methabenzthiazuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methamidophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methidathion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methiocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methiocarb-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methiocarb-sulfoxid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum methiocarb, -sulfone, -sulfoxide	mg/kg		calculated	n.q.	n.q.
Methomyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methoprottryne	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Methoxychlor	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Methoxyfenozide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metobromuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metolachlor	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metolcarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metosulam	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metoxuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metrafenone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metribuzin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Metsulfuron-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mevinphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Mirex	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Molinate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Monocrotophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Monolinuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Monuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Myclobutanil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Napropamide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Neburon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Nicosulfuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Nitenpyram	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Nitrofen	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Nitrothal-isopropyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Norflurazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Novaluron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Nuarimol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Ofurace	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Omethoate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Oxadixyle	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Oxamyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Oxamyl-oxim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Paclobutrazol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Paraoxon-ethyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Paraoxon-methyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Parathion-methyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Sum Parathion-methyl	mg/kg		calculated	n.q.	n.q.
Parathion-ethyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Pebulate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Penconazol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pencycuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pendimethalin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pentachloro-aniline	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Quintozone	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Sum quintozone and pentachloro-aniline	mg/kg		calculated	n.q.	n.q.
Pentachlorobenzene	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Permethrin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Phenmedipham	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phorate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.01	<0.01
Phorat-oxon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phorat-oxon-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phorat-oxon-sulfoxid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phorat-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phorat-sulfoxid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum phorate	mg/kg		calculated	n.q.	n.q.
Phosalone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phosmet	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Phosmet-oxon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum phosmet and phosmet-oxon	mg/kg		calculated	n.q.	n.q.
Phosphamidon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Picolinafen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Picoxystrobin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Piperonylbutoxide	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Pirimicarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pirimicarb-desmethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pirimiphos-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pirimiphos-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prochloraz	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prochloraz desimidazole-amino (BTS 44595)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prochloraz desimidazole-formylamino (BTS 44596)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum prochloraz	mg/kg		calculated	n.q.	n.q.

Procymidone	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Profenofos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Profoxydim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Promecarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prometryn	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propachlor	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propachlor OA (Oxalamic Acid)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum propachlor	mg/kg		calculated	n.q.	n.q.
Propamocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propanil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propaquizafop	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propargite	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propazine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propetamphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propham	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Propiconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propoxur	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Propoxycarbazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
2-hydroxypropoxycarbazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum propoxycarbazone	mg/kg		calculated	n.q.	n.q.
Propyzamide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Proquinazide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prosulfocarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prothioconazole (Prothioconazole-desthio)	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Prothiophos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Pymetrozine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyraclostrobin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyraflufen	mg/kg	0.05	EN 15662 : 2018 (mod.)	<0.0500	<0.0500
Pyraflufen-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum pyraflufen-ethyl	mg/kg		calculated	n.q.	n.q.
Pyrazophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyrethrins	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyridaben	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyridalyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyridaphenthion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyridate	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum pyridate	mg/kg		calculated	n.q.	n.q.
Pyrifenoxy	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyrimethanile	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyrimidifen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Pyriproxyfen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Pyroxsulam	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Quinalphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Quinoclamine	mg/kg	0.02	EN 15662 : 2018 (mod.)	<0.020	<0.020
Quinoxifen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Quizalofop, incl. quizalfop-P	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Quizalofop-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Resmethrine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.020	<0.010
Rotenone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sedaxane	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Silthiomat	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Simazin	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spinetoram	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spinosad	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirodiclofen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spiromesifen	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirotetramat	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirotetramat-enol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirotetramat-enol-glucoside	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirotetramat-ketohydroxy	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Spirotetramat-monohydroxy	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum Spirotetramat	mg/kg		calculated	n.q.	n.q.
Spiroxamine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sulfentrazone	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sulfotep	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Sulfoxaflor	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
tau-Fluvalinate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Tebuconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tebufenozide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tebufenpyrad	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.020	<0.020
Tecnazene	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Teflubenzuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tefluthrine	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Tembotriion	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tepraloxydim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Sum tepraloxydim	mg/kg		calculated	n.q.	n.q.
Terbacil	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Terbufos	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Terbufos-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Terbufos-sulfoxide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Terbumeton	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

Terbutryne	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Terbutylazin-desethyle	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Terbutylazine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tetrachlorvinphos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tetraconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tetradifon	mg/kg	0.005	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.005	<0.005
Thiabendazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiacloprid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiamethoxam	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiobencarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiodicarb	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiometon	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Thiometon-sulfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiometon-sulfoxid	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Thiophanat-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tolclofos-methyl	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Tralkoxydim	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triadimefon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triadimenol	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triallate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Triasulfuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triazamat	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triazophos	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Trichlorfon	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Trichloronate	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Triclopyr	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tricyclazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tridemorph	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Trifloxystrobin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Triflumuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Trifluralin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Triflusulfuron-methyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triforine	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Trinexapac	mg/kg	0.02	EN 15662 : 2018 (mod.)	<0.020	<0.020
Trinexapac-ethyl	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Triticonazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Tritosulfuron	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Uniconazole	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010
Vinclozolin	mg/kg	0.01	DIN EN 12393-2 : 2014-03 (mod.) / DIN EN 12393-3 : 2014-01 (mod.)	<0.010	<0.010
Zoxamide	mg/kg	0.01	EN 15662 : 2018 (mod.)	<0.010	<0.010

### Pesticides Multi-Residue-Method

In the range of performed analysis no pesticides were detected above limit of quantification in the fish fillet of control and test diet (average and S.D., n=6/treatment).

Parameter	Control diet		Test diet	
	Average	S.D.	Average	S.D.
Chlorbufam	0.00	0.00	0.00	0.00
1-naphthylacetamide and 1-naphthylacetic acid	0.00	0.00	0.00	0.00
1-Naphthylacetic acid	0.00	0.00	0.00	0.00
1-Naphthylacetic amide	0.00	0.00	0.00	0.00
1-naphthylacetamide and 1-naphthylacetic acid	0.00	0.00	0.00	0.00
2-Naphoxyacetic acid	0.00	0.00	0.00	0.00
2-Phenylphenol	0.00	0.00	0.00	0.00
2,4-D	0.00	0.00	0.00	0.00
2,4-DB	0.00	0.00	0.00	0.00
2,4,5-T	0.00	0.00	0.00	0.00
Carbofuran	0.00	0.00	0.00	0.00
Sum carbofuran, 3-hydroxycarbofuran	0.00	0.00	0.00	0.00
3-Hydroxy-Carbofuran	0.00	0.00	0.00	0.00
3-Chloroaniline	0.00	0.00	0.00	0.00
4-Chlorophenoxyacetic acid (4-CPA)	0.00	0.00	0.00	0.00
Acephate	0.00	0.00	0.00	0.00
Acetamiprid	0.00	0.00	0.00	0.00
Acibenzolaracid	0.00	0.00	0.00	0.00
Acibenzolar-S-methyl	0.00	0.00	0.00	0.00
Sum acibenzolar-S-methyl and acibenzolar acid	0.00	0.00	0.00	0.00
Alachlor	0.00	0.00	0.00	0.00
Aldicarb	0.00	0.00	0.00	0.00
Aldicarb-sulfon	0.00	0.00	0.00	0.00
Aldicarb-sulfoxide	0.00	0.00	0.00	0.00
Sum aldicarb-/sulfon/-sulfoxid	0.00	0.00	0.00	0.00
Aldrin	0.00	0.00	0.00	0.00
Dieldrin	0.00	0.00	0.00	0.00
Sum aldrin, dieldrin	0.00	0.00	0.00	0.00
Ametoctradin	0.00	0.00	0.00	0.00
Ametryn	0.00	0.00	0.00	0.00
Aminocarb	0.00	0.00	0.00	0.00
Amitraz	0.00	0.00	0.00	0.00
N-2,4-Dimethylphenyl-N-methylformamidine	0.00	0.00	0.00	0.00
2,4-Dimethylphenylformamide	0.00	0.00	0.00	0.00

Sum amitraz	0.00	0.00	0.00	0.00
Anthraquinone	0.00	0.00	0.00	0.00
Atrazine	0.00	0.00	0.00	0.00
Azaconazole	0.00	0.00	0.00	0.00
Azadirachtin	0.00	0.00	0.00	0.00
Azinphos-ethyl	0.00	0.00	0.00	0.00
Azinphos-methyl	0.00	0.00	0.00	0.00
Azoxystrobin	0.00	0.00	0.00	0.00
Benalaxyd	0.00	0.00	0.00	0.00
Bendiocarb	0.00	0.00	0.00	0.00
Benfluralin	0.00	0.00	0.00	0.00
Bensulfuron-methyl	0.00	0.00	0.00	0.00
Bentazone	0.00	0.00	0.00	0.00
6-hydroxy-Bentazone	0.00	0.00	0.00	0.00
8-hydroxy-Bentazone	0.00	0.00	0.00	0.00
Sum bentazone	0.00	0.00	0.00	0.00
Benthiavalicarb-isopropyl	0.00	0.00	0.00	0.00
Benzovindiflupyr	0.00	0.00	0.00	0.00
Bifenazate	0.00	0.00	0.00	0.00
Bifenazate-diazene	0.00	0.00	0.00	0.00
Sum bifenazate	0.00	0.00	0.00	0.00
Bifenoxy	0.00	0.00	0.00	0.00
Bifenthrin	0.00	0.00	0.00	0.00
Biphenyl (Diphenyl)	0.00	0.00	0.00	0.00
Bitertanol	0.00	0.00	0.00	0.00
Bixafen	0.00	0.00	0.00	0.00
Boscalid	0.00	0.00	0.00	0.00
Bromacil	0.00	0.00	0.00	0.00
Bromophos-ethyl	0.00	0.00	0.00	0.00
Bromophos-methyl	0.00	0.00	0.00	0.00
Bromopropylate	0.00	0.00	0.00	0.00
Bromoxynil	0.00	0.00	0.00	0.00
Bromuconazole	0.00	0.00	0.00	0.00
Bupirimide	0.00	0.00	0.00	0.00
Buprofezin	0.00	0.00	0.00	0.00
Butafenacil	0.00	0.00	0.00	0.00
Butocarboxim	0.00	0.00	0.00	0.00
Butocarboxim-sulfoxide	0.00	0.00	0.00	0.00
Butoxycarboxim	0.00	0.00	0.00	0.00
Cadusafos	0.00	0.00	0.00	0.00

Captafol	0.00	0.00	0.00	0.00
Captan	0.00	0.00	0.00	0.00
Tetrahydropthalimide (THPI)	0.00	0.00	0.00	0.00
Sum captan and Tetrahydropthalimide (THPI)	0.00	0.00	0.00	0.00
Carbaryl	0.00	0.00	0.00	0.00
Carbophenothion	0.00	0.00	0.00	0.00
Carbosulfan	0.00	0.00	0.00	0.00
Carboxin	0.00	0.00	0.00	0.00
Sum carboxin	0.00	0.00	0.00	0.00
Chlorantraniliprol	0.00	0.00	0.00	0.00
Chlorobenzilate	0.00	0.00	0.00	0.00
Sum carbendazim/benomyl	0.00	0.00	0.00	0.00
Chlordane alpha	0.00	0.00	0.00	0.00
Chlordane gamma	0.00	0.00	0.00	0.00
Sum of cis- and trans-chlordane (F) (R)	0.00	0.00	0.00	0.00
Chlordane oxy	0.00	0.00	0.00	0.00
Chlorfenson	0.00	0.00	0.00	0.00
Chlorfluazuron	0.00	0.00	0.00	0.00
Chloridazon	0.00	0.00	0.00	0.00
Chlorphenvinphos	0.00	0.00	0.00	0.00
Sum chloridazon	0.00	0.00	0.00	0.00
Chlorimuron-ethyl	0.00	0.00	0.00	0.00
Chlormephos	0.00	0.00	0.00	0.00
Chloroneb	0.00	0.00	0.00	0.00
Chlorotuluron	0.00	0.00	0.00	0.00
Chlorpropham	0.00	0.00	0.00	0.00
Chlorpyrifos	0.00	0.00	0.00	0.00
Chlorpyrifos-methyl	0.00	0.00	0.00	0.00
Chlorthalonil	0.00	0.00	0.00	0.00
Chlorthion	0.00	0.00	0.00	0.00
Chlorthiophos	0.00	0.00	0.00	0.00
Chlozolinate	0.00	0.00	0.00	0.00
Cinosulfuron	0.00	0.00	0.00	0.00
Clethodim	0.00	0.00	0.00	0.00
Sethoxydim	0.00	0.00	0.00	0.00
Sum clethodim	0.00	0.00	0.00	0.00
Climbazole	0.00	0.00	0.00	0.00
Clodinafop	0.00	0.00	0.00	0.00
Clodinafop-propargyl	0.00	0.00	0.00	0.00
Clofentezin	0.00	0.00	0.00	0.00

Clomazone	0.00	0.00	0.00	0.00
Cloquintocet-mexyl	0.00	0.00	0.00	0.00
Clothianidin	0.00	0.00	0.00	0.00
Coumaphos	0.00	0.00	0.00	0.00
Crimidine	0.00	0.00	0.00	0.00
Cyanazin	0.00	0.00	0.00	0.00
Cyanofenphos	0.00	0.00	0.00	0.00
Cyantraniliprol	0.00	0.00	0.00	0.00
Cyazofamid	0.00	0.00	0.00	0.00
Cyclanilid	0.00	0.00	0.00	0.00
Cycloate	0.00	0.00	0.00	0.00
Cycloxydim	0.00	0.00	0.00	0.00
Sum cycloxydim	0.00	0.00	0.00	0.00
Cyflufenamid	0.00	0.00	0.00	0.00
Cyflumetofen	0.00	0.00	0.00	0.00
Cyfluthrin	0.00	0.00	0.00	0.00
Cymoxanil	0.00	0.00	0.00	0.00
Cypermethrin	0.00	0.00	0.00	0.00
Cyproconazole	0.00	0.00	0.00	0.00
Cyprodinil	0.00	0.00	0.00	0.00
o,p-DDD	0.00	0.00	0.00	0.00
o,p-DDE	0.00	0.00	0.00	0.00
o,p-DDT	0.00	0.00	0.00	0.00
p,p-DDD	0.00	0.00	0.00	0.00
p,p-DDE	0.00	0.00	0.00	0.00
p,p-DDT	0.00	0.00	0.00	0.00
Sum DDT-isomers	0.00	0.00	0.00	0.00
Deltamethrin	0.00	0.00	0.00	0.00
Demeton-S-methyl	0.00	0.00	0.00	0.00
Demeton-S-methyl-sulfone	0.00	0.00	0.00	0.00
Oxydemeton-methyl	0.00	0.00	0.00	0.00
Sum oxydemeton-methyl, demeton-S-methyl-sulfone	0.00	0.00	0.00	0.00
Desethylatrazine	0.00	0.00	0.00	0.00
Desmedipham	0.00	0.00	0.00	0.00
Desmetryn	0.00	0.00	0.00	0.00
Diazinon	0.00	0.00	0.00	0.00
Dichlobenil	0.00	0.00	0.00	0.00
Dichlofenthione	0.00	0.00	0.00	0.00
Dichlofuanid	0.00	0.00	0.00	0.00
Dichlorprop	0.00	0.00	0.00	0.00

Dichlorvos	0.00	0.00	0.00	0.00
Diclobutrazole	0.00	0.00	0.00	0.00
Diclofop	0.00	0.00	0.00	0.00
Dicloran	0.00	0.00	0.00	0.00
Dicofol	0.00	0.00	0.00	0.00
Dicrotophos	0.00	0.00	0.00	0.00
Diethofencarb	0.00	0.00	0.00	0.00
Diethyltoluamide (DEET)	0.00	0.00	0.00	0.00
Difenacoum	0.00	0.00	0.00	0.00
Difenoconazole	0.00	0.00	0.00	0.00
Diflubenzuron	0.00	0.00	0.00	0.00
Diflufenican	0.00	0.00	0.00	0.00
Dimethenamide	0.00	0.00	0.00	0.00
Dimethoate	0.00	0.00	0.00	0.00
Dimethomorph	0.00	0.00	0.00	0.00
Dimethylaminosulfotoluuidide (DMST)	0.00	0.00	0.00	0.00
Tolylfluanide	0.00	0.00	0.00	0.00
Sum tolylfluanid	0.00	0.00	0.00	0.00
Dimoxystrobin	0.00	0.00	0.00	0.00
Diniconazole	0.00	0.00	0.00	0.00
Dinocap	0.00	0.00	0.00	0.00
Dinotefuran	0.00	0.00	0.00	0.00
Dinoterb	0.00	0.00	0.00	0.00
Diphenamid	0.00	0.00	0.00	0.00
Diphenylamine	0.00	0.00	0.00	0.00
Dipropetryn	0.00	0.00	0.00	0.00
Disulfoton	0.00	0.00	0.00	0.00
Disulfoton-sulfona	0.00	0.00	0.00	0.00
Disulfoton-sulfoxide	0.00	0.00	0.00	0.00
Sum disulfoton	0.00	0.00	0.00	0.00
Ditalimfos	0.00	0.00	0.00	0.00
Diuron	0.00	0.00	0.00	0.00
DMSA	0.00	0.00	0.00	0.00
Dodemorph	0.00	0.00	0.00	0.00
Dodin	0.00	0.00	0.00	0.00
Emamectin	0.00	0.00	0.00	0.00
Endosulfan alpha	0.00	0.00	0.00	0.00
Endosulfan beta	0.00	0.00	0.00	0.00
Endosulfansulfat	0.00	0.00	0.00	0.00
Sum endosulfan-alpha, -beta, -sulfat	0.00	0.00	0.00	0.00

Endrin	0.00	0.00	0.00	0.00
Endrin Ketone	0.00	0.00	0.00	0.00
EPN	0.00	0.00	0.00	0.00
Epoxiconazole	0.00	0.00	0.00	0.00
EPTC	0.00	0.00	0.00	0.00
Ethiofencarb	0.00	0.00	0.00	0.00
Ethiofencarb-sulfon	0.00	0.00	0.00	0.00
Ethiofencarb-sulfoxide	0.00	0.00	0.00	0.00
Ethion	0.00	0.00	0.00	0.00
Ethiprole	0.00	0.00	0.00	0.00
Ethirimol	0.00	0.00	0.00	0.00
Ethoprophos	0.00	0.00	0.00	0.00
Etofenprox	0.00	0.00	0.00	0.00
Etoxazole	0.00	0.00	0.00	0.00
Etrimfos	0.00	0.00	0.00	0.00
Famoxadone	0.00	0.00	0.00	0.00
Fenamidone	0.00	0.00	0.00	0.00
Fenamiphos	0.00	0.00	0.00	0.00
Fenamiphos-sulfoxide	0.00	0.00	0.00	0.00
Fenamiphos-sulphone	0.00	0.00	0.00	0.00
Sum fenamiphos, -sulphoxide, -sulphone	0.00	0.00	0.00	0.00
Fenarimole	0.00	0.00	0.00	0.00
Fenazaquine	0.00	0.00	0.00	0.00
Fenbuconazole	0.00	0.00	0.00	0.00
Fenchlorphos	0.00	0.00	0.00	0.00
Fenchlorphos-oxon	0.00	0.00	0.00	0.00
Sum fenchlorphos	0.00	0.00	0.00	0.00
Fenhexamid	0.00	0.00	0.00	0.00
Fenitrothion	0.00	0.00	0.00	0.00
Fenobucarb	0.00	0.00	0.00	0.00
Fenoxyprop	0.00	0.00	0.00	0.00
Fenoxy carb	0.00	0.00	0.00	0.00
Fenpiclonil	0.00	0.00	0.00	0.00
Fenpropathrine	0.00	0.00	0.00	0.00
Fenpropidin	0.00	0.00	0.00	0.00
Fenpropimorph	0.00	0.00	0.00	0.00
Fenpyrazamin	0.00	0.00	0.00	0.00
Fenpyroximate	0.00	0.00	0.00	0.00
Fensulfothion	0.00	0.00	0.00	0.00
Fensulfothion-oxon	0.00	0.00	0.00	0.00

Fensulfothion-oxon-sulfon	0.00	0.00	0.00	0.00
Fensulfothion-sulfon	0.00	0.00	0.00	0.00
Fenthion	0.00	0.00	0.00	0.00
Fenthion-oxone	0.00	0.00	0.00	0.00
Fenthion-oxon-sulfon	0.00	0.00	0.00	0.00
Fenthionoxonsulfoxide	0.00	0.00	0.00	0.00
Fenthion-sulfon	0.00	0.00	0.00	0.00
Fenthion-sulfoxide	0.00	0.00	0.00	0.00
Sum fenthion	0.00	0.00	0.00	0.00
Fenuron	0.00	0.00	0.00	0.00
Fenvalerate	0.00	0.00	0.00	0.00
Fipronil	0.00	0.00	0.00	0.00
Fipronil-sulfon	0.00	0.00	0.00	0.00
Sum fipronil, -sulfone (MB 46136)	0.00	0.00	0.00	0.00
Flonicamid	0.00	0.00	0.00	0.00
TFNA	0.00	0.00	0.00	0.00
TFNG	0.00	0.00	0.00	0.00
Sum flonicamid	0.00	0.00	0.00	0.00
Fluazifop	0.00	0.00	0.00	0.00
Fluazifop-butyle	0.00	0.00	0.00	0.00
Fluazinam	0.00	0.00	0.00	0.00
Flubendiamid	0.00	0.00	0.00	0.00
Flucythrinate	0.00	0.00	0.00	0.00
Fludioxonil	0.00	0.00	0.00	0.00
Flufenacet	0.00	0.00	0.00	0.00
Flufenacet ESA (ethansulfonic acid)	0.00	0.00	0.00	0.00
Flufenacet OA (Oxalamic Acid)	0.00	0.00	0.00	0.00
Flufenacet-alcohol	0.00	0.00	0.00	0.00
Sum flufenacet	0.00	0.00	0.00	0.00
Flufenoxuron	0.00	0.00	0.00	0.00
Flufenzin	0.00	0.00	0.00	0.00
Fluometuron	0.00	0.00	0.00	0.00
Fluopicolide	0.00	0.00	0.00	0.00
Fluopyram	0.00	0.00	0.00	0.00
Fluquinconazole	0.00	0.00	0.00	0.00
Fluroxypyr	0.00	0.00	0.00	0.00
Flurprimidol	0.00	0.00	0.00	0.00
Flusilazole	0.00	0.00	0.00	0.00
Fluthiacet-methyl	0.00	0.00	0.00	0.00
Flutolanil	0.00	0.00	0.00	0.00

Flutriafol	0.00	0.00	0.00	0.00
Fluxapyroxad	0.00	0.00	0.00	0.00
FM 6-1	0.00	0.00	0.00	0.00
Triflumizole	0.00	0.00	0.00	0.00
Sum triflumizole and FM 6-1	0.00	0.00	0.00	0.00
Folpet	0.00	0.00	0.00	0.00
Phthalimide	0.00	0.00	0.00	0.00
Sum of Folpet and Phthalimid	0.00	0.00	0.00	0.00
Forchlorfenuron	0.00	0.00	0.00	0.00
Fonofos	0.00	0.00	0.00	0.00
Formetanate(hydrochloride)	0.00	0.00	0.00	0.00
Formothion	0.00	0.00	0.00	0.00
Fosthiazat	0.00	0.00	0.00	0.00
Fuberidazole	0.00	0.00	0.00	0.00
Furalaxyil	0.00	0.00	0.00	0.00
Furathiocarb	0.00	0.00	0.00	0.00
Halofenozid	0.00	0.00	0.00	0.00
Haloxyfop	0.00	0.00	0.00	0.00
Haloxyfop methyl	0.00	0.00	0.00	0.00
Haloxyfop-ethoxy-ethyl	0.00	0.00	0.00	0.00
HCH-alpha	0.00	0.00	0.00	0.00
HCH-beta	0.00	0.00	0.00	0.00
HCH-delta	0.00	0.00	0.00	0.00
HCH-epsilon	0.00	0.00	0.00	0.00
Hexachlorobenzene	0.00	0.00	0.00	0.00
HCH-gamma (Lindane)	0.00	0.00	0.00	0.00
Heptachlor	0.00	0.00	0.00	0.00
Heptachlorepoxyde-cis	0.00	0.00	0.00	0.00
Heptachlorepoxyde-trans	0.00	0.00	0.00	0.00
Sum heptachlor, heptachlorepoxyde	0.00	0.00	0.00	0.00
Heptenophos	0.00	0.00	0.00	0.00
Hexaconazole	0.00	0.00	0.00	0.00
Hexaflumuron	0.00	0.00	0.00	0.00
Hexazinone	0.00	0.00	0.00	0.00
Hexithiazox	0.00	0.00	0.00	0.00
Icaridin (Picaridin)	0.00	0.00	0.00	0.00
Imazalil	0.00	0.00	0.00	0.00
Imazamox	0.00	0.00	0.00	0.00
Imazaquine	0.00	0.00	0.00	0.00
Imazethapyr	0.00	0.00	0.00	0.00

Imibenconazole	0.00	0.00	0.00	0.00
Imidacloprid	0.00	0.00	0.00	0.00
Indoxacarb	0.00	0.00	0.00	0.00
Iodosulfuron-methyl-sodium	0.00	0.00	0.00	0.00
Ioxynil	0.00	0.00	0.00	0.00
Iprobenfos	0.00	0.00	0.00	0.00
Iprodion	0.00	0.00	0.00	0.00
Iprovalicarb	0.00	0.00	0.00	0.00
Isazofos	0.00	0.00	0.00	0.00
Isocarbophos	0.00	0.00	0.00	0.00
Isodrin	0.00	0.00	0.00	0.00
Isofenphos	0.00	0.00	0.00	0.00
Isofenphos-methyl	0.00	0.00	0.00	0.00
Isoprocarb	0.00	0.00	0.00	0.00
Isoprothiolane	0.00	0.00	0.00	0.00
Isoproturon	0.00	0.00	0.00	0.00
isoxaben	0.00	0.00	0.00	0.00
Isoxadifen-ethyl	0.00	0.00	0.00	0.00
Isoxathion	0.00	0.00	0.00	0.00
Kresoxim-methyl	0.00	0.00	0.00	0.00
lambda-Cyhalothrine	0.00	0.00	0.00	0.00
Landrin (3,4,5-Trimethacarb)	0.00	0.00	0.00	0.00
Lenacil	0.00	0.00	0.00	0.00
Leptophos	0.00	0.00	0.00	0.00
Linuron	0.00	0.00	0.00	0.00
Malaoxon	0.00	0.00	0.00	0.00
Malathion	0.00	0.00	0.00	0.00
Sum of malathion and malaoxon	0.00	0.00	0.00	0.00
Mandestrobin	0.00	0.00	0.00	0.00
Mandipropamid	0.00	0.00	0.00	0.00
MCPA	0.00	0.00	0.00	0.00
MCPB	0.00	0.00	0.00	0.00
Sum MCDA, MCPB	0.00	0.00	0.00	0.00
Mecarbame	0.00	0.00	0.00	0.00
Mecoprop	0.00	0.00	0.00	0.00
Mefenpyr-diethyl	0.00	0.00	0.00	0.00
Mepanipyrim	0.00	0.00	0.00	0.00
Mepronil	0.00	0.00	0.00	0.00
Meptyldinocap	0.00	0.00	0.00	0.00
Metaflumizone	0.00	0.00	0.00	0.00

Metalaxyll (Sum of Metalaxyll and Metalaxyll-M)	0.00	0.00	0.00	0.00
Metamitron	0.00	0.00	0.00	0.00
Metazachlor	0.00	0.00	0.00	0.00
Sum metazachlor	0.00	0.00	0.00	0.00
Metconazole	0.00	0.00	0.00	0.00
Methabenzthiazuron	0.00	0.00	0.00	0.00
Methamidophos	0.00	0.00	0.00	0.00
Methidathion	0.00	0.00	0.00	0.00
Methiocarb	0.00	0.00	0.00	0.00
Methiocarb-sulfon	0.00	0.00	0.00	0.00
Methiocarb-sulfoxid	0.00	0.00	0.00	0.00
Sum methiocarb, -sulfone, -sulfoxide	0.00	0.00	0.00	0.00
Methomyl	0.00	0.00	0.00	0.00
Methoprotynne	0.00	0.00	0.00	0.00
Methoxychlor	0.00	0.00	0.00	0.00
Methoxyfenozone	0.00	0.00	0.00	0.00
Metobromuron	0.00	0.00	0.00	0.00
Metolachlor	0.00	0.00	0.00	0.00
Metolcarb	0.00	0.00	0.00	0.00
Metosulam	0.00	0.00	0.00	0.00
Metoxuron	0.00	0.00	0.00	0.00
Metrafenone	0.00	0.00	0.00	0.00
Metribuzin	0.00	0.00	0.00	0.00
Metsulfurone-methyl	0.00	0.00	0.00	0.00
Mevinphos	0.00	0.00	0.00	0.00
Mirex	0.00	0.00	0.00	0.00
Molinate	0.00	0.00	0.00	0.00
Monocrotophos	0.00	0.00	0.00	0.00
Monolinuron	0.00	0.00	0.00	0.00
Monuron	0.00	0.00	0.00	0.00
Myclobutanil	0.00	0.00	0.00	0.00
Napropamide	0.00	0.00	0.00	0.00
Neburon	0.00	0.00	0.00	0.00
Nicosulfuron	0.00	0.00	0.00	0.00
Nitenpyram	0.00	0.00	0.00	0.00
Nitrofen	0.00	0.00	0.00	0.00
Nitrothal-isopropyl	0.00	0.00	0.00	0.00
Norflurazon	0.00	0.00	0.00	0.00
Novaluron	0.00	0.00	0.00	0.00
Nuarimol	0.00	0.00	0.00	0.00

Ofurace	0.00	0.00	0.00	0.00
Omethoate	0.00	0.00	0.00	0.00
Oxadixyle	0.00	0.00	0.00	0.00
Oxamyl	0.00	0.00	0.00	0.00
Oxamyl-oxim	0.00	0.00	0.00	0.00
Paclobutrazol	0.00	0.00	0.00	0.00
Paraoxon-ethyl	0.00	0.00	0.00	0.00
Paraoxon-methyl	0.00	0.00	0.00	0.00
Parathion-methyl	0.00	0.00	0.00	0.00
Sum parathion-methyl	0.00	0.00	0.00	0.00
Parathion-ethyl	0.00	0.00	0.00	0.00
Pebulate	0.00	0.00	0.00	0.00
Penconazol	0.00	0.00	0.00	0.00
Pencycuron	0.00	0.00	0.00	0.00
Pendimethalin	0.00	0.00	0.00	0.00
Pentachloro-aniline	0.00	0.00	0.00	0.00
Quintozene	0.00	0.00	0.00	0.00
Sum quintozene and pentachloro-aniline	0.00	0.00	0.00	0.00
Pentachlorobenzene	0.00	0.00	0.00	0.00
Permethrin	0.00	0.00	0.00	0.00
Phenmedipham	0.00	0.00	0.00	0.00
Phorate	0.00	0.00	0.00	0.00
Phorat-oxon	0.00	0.00	0.00	0.00
Phorat-oxon-sulfon	0.00	0.00	0.00	0.00
Phorat-oxon-sulfoxid	0.00	0.00	0.00	0.00
Phorat-sulfon	0.00	0.00	0.00	0.00
Phorat-sulfoxid	0.00	0.00	0.00	0.00
Sum phorate	0.00	0.00	0.00	0.00
Phosalone	0.00	0.00	0.00	0.00
Phosmet	0.00	0.00	0.00	0.00
Phosmet-oxon	0.00	0.00	0.00	0.00
Sum phosmet and phosmet-oxon	0.00	0.00	0.00	0.00
Phosphamidon	0.00	0.00	0.00	0.00
Picolinafen	0.00	0.00	0.00	0.00
Picoxytrobin	0.00	0.00	0.00	0.00
Piperonylbutoxide	0.00	0.00	0.00	0.00
Pirimicarb	0.00	0.00	0.00	0.00
Pirimicarb-desmethyl	0.00	0.00	0.00	0.00
Pirimiphos-ethyl	0.00	0.00	0.00	0.00
Pirimiphos-methyl	0.00	0.00	0.00	0.00

Prochloraz	0.00	0.00	0.00	0.00
Prochloraz desimidazole-amino (BTS 44595)	0.00	0.00	0.00	0.00
Prochloraz desimidazole-formylamino (BTS 44596)	0.00	0.00	0.00	0.00
Sum prochloraz	0.00	0.00	0.00	0.00
Procymidone	0.00	0.00	0.00	0.00
Profenofos	0.00	0.00	0.00	0.00
Profoxydim	0.00	0.00	0.00	0.00
Promecarb	0.00	0.00	0.00	0.00
Prometryn	0.00	0.00	0.00	0.00
Propachlor	0.00	0.00	0.00	0.00
Propachlor OA (Oxalamic Acid)	0.00	0.00	0.00	0.00
Sum propachlor	0.00	0.00	0.00	0.00
Propamocarb	0.00	0.00	0.00	0.00
Propanil	0.00	0.00	0.00	0.00
Propaquizafop	0.00	0.00	0.00	0.00
Propargite	0.00	0.00	0.00	0.00
Propazine	0.00	0.00	0.00	0.00
Propetamphos	0.00	0.00	0.00	0.00
Propham	0.00	0.00	0.00	0.00
Propiconazole	0.00	0.00	0.00	0.00
Propoxur	0.00	0.00	0.00	0.00
Propoxycarbazone	0.00	0.00	0.00	0.00
2-hydroxypropoxycarbazone	0.00	0.00	0.00	0.00
Sum propoxycarbazone	0.00	0.00	0.00	0.00
Propyzamide	0.00	0.00	0.00	0.00
Proquinazide	0.00	0.00	0.00	0.00
Prosulfocarb	0.00	0.00	0.00	0.00
Prothioconazole (Prothioconazole-desthio)	0.00	0.00	0.00	0.00
Prothiophos	0.00	0.00	0.00	0.00
Pymetrozine	0.00	0.00	0.00	0.00
Pyraclostrobin	0.00	0.00	0.00	0.00
Pyraflufen	0.00	0.00	0.00	0.00
Pyraflufen-ethyl	0.00	0.00	0.00	0.00
Sum pyraflufen-ethyl	0.00	0.00	0.00	0.00
Pyrazophos	0.00	0.00	0.00	0.00
Pyrethrins	0.00	0.00	0.00	0.00
Pyridaben	0.00	0.00	0.00	0.00
Pyridalyl	0.00	0.00	0.00	0.00
Pyridaphenthion	0.00	0.00	0.00	0.00
Pyridate	0.00	0.00	0.00	0.00

Sum pyridate	0.00	0.00	0.00	0.00
Pyrifenoxy	0.00	0.00	0.00	0.00
Pyrimethanile	0.00	0.00	0.00	0.00
Pyrimidifen	0.00	0.00	0.00	0.00
Pyriproxyfen	0.00	0.00	0.00	0.00
Pyroxslam	0.00	0.00	0.00	0.00
Quinalphos	0.00	0.00	0.00	0.00
Quinoclamine	0.00	0.00	0.00	0.00
Quinoxyfen	0.00	0.00	0.00	0.00
Quizalofop, incl. quizalfop-P	0.00	0.00	0.00	0.00
Quizalofop-ethyl	0.00	0.00	0.00	0.00
Resmethrine	0.00	0.00	0.00	0.00
Rotenone	0.00	0.00	0.00	0.00
Sedaxane	0.00	0.00	0.00	0.00
Silthiomet	0.00	0.00	0.00	0.00
Simazin	0.00	0.00	0.00	0.00
Spinetoram	0.00	0.00	0.00	0.00
Spinosad	0.00	0.00	0.00	0.00
Spirodiclofen	0.00	0.00	0.00	0.00
Spiromesifen	0.00	0.00	0.00	0.00
Spirotetramat	0.00	0.00	0.00	0.00
Spirotetramat-enol	0.00	0.00	0.00	0.00
Spirotetramat-enol-glucoside	0.00	0.00	0.00	0.00
Spirotetramat-ketohydroxy	0.00	0.00	0.00	0.00
Spirotetramat-monohydroxy	0.00	0.00	0.00	0.00
Sum spiotetramat	0.00	0.00	0.00	0.00
Spiroxamine	0.00	0.00	0.00	0.00
Sulfentrazone	0.00	0.00	0.00	0.00
Sulfotep	0.00	0.00	0.00	0.00
Sulfoxaflor	0.00	0.00	0.00	0.00
tau-Fluvalinate	0.00	0.00	0.00	0.00
Tebuconazole	0.00	0.00	0.00	0.00
Tebufenozide	0.00	0.00	0.00	0.00
Tebufenpyrad	0.00	0.00	0.00	0.00
Tecnazene	0.00	0.00	0.00	0.00
Teflubenzuron	0.00	0.00	0.00	0.00
Tefluthrine	0.00	0.00	0.00	0.00
Tembotriion	0.00	0.00	0.00	0.00
Tepraloxydim	0.00	0.00	0.00	0.00
Sum tepraloxydim	0.00	0.00	0.00	0.00

Terbacil	0.00	0.00	0.00	0.00
Terbufos	0.00	0.00	0.00	0.00
Terbufos-sulfon	0.00	0.00	0.00	0.00
Terbufos-sulfoxide	0.00	0.00	0.00	0.00
Terbumeton	0.00	0.00	0.00	0.00
Terbutryne	0.00	0.00	0.00	0.00
Terbutylazin-desethyle	0.00	0.00	0.00	0.00
Terbutylazine	0.00	0.00	0.00	0.00
Tetrachlorvinphos	0.00	0.00	0.00	0.00
Tetraconazole	0.00	0.00	0.00	0.00
Tetradifon	0.00	0.00	0.00	0.00
Thiabendazole	0.00	0.00	0.00	0.00
Thiacloprid	0.00	0.00	0.00	0.00
Thiamethoxam	0.00	0.00	0.00	0.00
Thiobencarb	0.00	0.00	0.00	0.00
Thiodicarb	0.00	0.00	0.00	0.00
Thiometon	0.00	0.00	0.00	0.00
Thiometon-sulfon	0.00	0.00	0.00	0.00
Thiometon-sulfoxid	0.00	0.00	0.00	0.00
Thiophanat-methyl	0.00	0.00	0.00	0.00
Tolclofos-methyl	0.00	0.00	0.00	0.00
Tralkoxydim	0.00	0.00	0.00	0.00
Triadimefon	0.00	0.00	0.00	0.00
Triadimenol	0.00	0.00	0.00	0.00
Triallate	0.00	0.00	0.00	0.00
Triasulfuron	0.00	0.00	0.00	0.00
Triazamat	0.00	0.00	0.00	0.00
Triazophos	0.00	0.00	0.00	0.00
Trichlorfon	0.00	0.00	0.00	0.00
Trichloronate	0.00	0.00	0.00	0.00
Triclopyr	0.00	0.00	0.00	0.00
Tricyclazole	0.00	0.00	0.00	0.00
Tridemorph	0.00	0.00	0.00	0.00
Trifloxystrobin	0.00	0.00	0.00	0.00
Triflumuron	0.00	0.00	0.00	0.00
Trifluralin	0.00	0.00	0.00	0.00
Triflusulfuron-methyl	0.00	0.00	0.00	0.00
Triforine	0.00	0.00	0.00	0.00
Trinexapac	0.00	0.00	0.00	0.00
Trinexapac-ethyl	0.00	0.00	0.00	0.00
Triticonazole	0.00	0.00	0.00	0.00
Tritosulfuron	0.00	0.00	0.00	0.00
Uronicazole	0.00	0.00	0.00	0.00
Vinclozolin	0.00	0.00	0.00	0.00
Zoxamide	0.00	0.00	0.00	0.00