

Table of assigned values Pesticides in Accordance with the Drinking Water Ordinance - PM04

1st Edition, 18.10.2022

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
2,4-D (2,4-Dichlorphenoxyaceticacid)	PM04 A	µg/l	0.223 ±	0.00979	0.0312	14
	PM04 B	µg/l	- ±	-	-	-
2,6-Dichlorobenzamide	PM04 A	µg/l	0.679 ±	0.0331	0.102	15
	PM04 B	µg/l	0.698 ±	0.0339	0.105	15
2-Amino-4-methoxy-6-methyl-1,3,5-triazine*	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
3,5,6-Trichloro-2-pyridinol	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.733 ±	0.0721	0.103	14
Alachlor	PM04 A	µg/l	0.792 ±	0.0617	0.0951	12
	PM04 B	µg/l	- ±	-	-	-
Alachlor-t-acid (Alachlor-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	1.14 ±	0.0806	0.171	15
Alachlor-t-sulfonic acid (Alachlor-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.972 ±	0.0663	0.126	13
Aldrin	PM04 A	µg/l	0.0908 ±	0.0194	0.0327	36
	PM04 B	µg/l	- ±	-	-	-
AMPA	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.645 ±	0.0801	0.142	22
Atrazine	PM04 A	µg/l	0.64 ±	0.0252	0.0704	11
	PM04 B	µg/l	- ±	-	-	-
Atrazine-2-hydroxy	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.772 ±	0.0575	0.0849	11
Atrazine-desethyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.21 ±	0.0102	0.0253	12
Atrazine-desethyl-desisopropyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.479 ±	0.0849	0.149	31
Atrazine-desisopropyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.46 ±	0.0211	0.0644	14
Azoxystrobin	PM04 A	µg/l	0.294 ±	0.0191	0.0382	13
	PM04 B	µg/l	- ±	-	-	-
Azoxystrobin-O-demethyl (CyPM)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.352 ±	0.0278	0.0387	11
Bentazone	PM04 A	µg/l	0.175 ±	0.00535	0.0263	15
	PM04 B	µg/l	- ±	-	-	-
Bromacil	PM04 A	µg/l	0.369 ±	0.0276	0.0517	14
	PM04 B	µg/l	- ±	-	-	-
Bromoxynil**	PM04 A	µg/l	0.693 ±	0.0909	0.132	19
	PM04 B	µg/l	- ±	-	-	-
Chloridazon	PM04 A	µg/l	0.359 ±	0.0134	0.0467	13
	PM04 B	µg/l	- ±	-	-	-
Chloridazon-desphenyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.795 ±	0.0317	0.0874	11
Chloridazon-methyl-desphenyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.893 ±	0.036	0.116	13

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Chlorothalonil Metabolite R471811**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.861 ±	0.039	0.0861	10
Chlorothalonil Metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.933 ±	0.125	0.177	19
Chlorothalonil Metabolite SYN507900**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.713 ±	0.0611	0.0999	14
Chlorothalonil sulfonic acid (Chlorothalonil-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	1.27 ±	0.103	0.228	18
Clopyralid	PM04 A	µg/l	0.221 ±	0.0288	0.0553	25
	PM04 B	µg/l	- ±	-	-	-
Clothianidin	PM04 A	µg/l	0.101 ±	0.00321	0.0111	11
	PM04 B	µg/l	- ±	-	-	-
Desaminometamitron**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.188 ±	0.00535	0.0188	10
Dicamba	PM04 A	µg/l	0.626 ±	0.05	0.125	20
	PM04 B	µg/l	- ±	-	-	-
Dichlorprop	PM04 A	µg/l	0.46 ±	0.0201	0.0552	12
	PM04 B	µg/l	- ±	-	-	-
Dieldrin*	PM04 A	µg/l	0.405 ±	0.0873	0.146	36
	PM04 B	µg/l	- ±	-	-	-
Dimethachlor	PM04 A	µg/l	0.17 ±	0.00826	0.0187	11
	PM04 B	µg/l	- ±	-	-	-
Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.157 ±	0.00667	0.0157	10
Dimethachlor Metabolite - CGA 369873	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.681 ±	0.0804	0.163	24
Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester)*	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Dimethachlor Metabolite - CGA 373464 (free acid)*	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.398 ±	0.0279	0.0478	12
Dimethenamide	PM04 A	µg/l	0.242 ±	0.0139	0.0242	10
	PM04 B	µg/l	- ±	-	-	-
Dimethenamide-P-acid (Dimethenamide-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.416 ±	0.0584	0.0708	17
Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)	PM04 A	µg/l	- ±	-	-	-

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Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)	PM04 B	µg/l	0.283 ±	0.0225	0.0453	16
Diuron	PM04 A	µg/l	0.242 ±	0.0102	0.0314	13
	PM04 B	µg/l	- ±	-	-	-
Ethidimuron ^{**}	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Ethofumesate	PM04 A	µg/l	0.172 ±	0.0124	0.0275	16
	PM04 B	µg/l	- ±	-	-	-
Flazasulfuron ^{**}	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Flufenacet	PM04 A	µg/l	0.1 ±	0.00586	0.013	13
	PM04 B	µg/l	- ±	-	-	-
Flufenacet oxanilic acid (Flufenacet-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.344 ±	0.0404	0.0585	17
Flufenacet sulfonic acid (Flufenacet-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.675 ±	0.0559	0.081	12
Glufosinate	PM04 A	µg/l	0.391 ±	0.0671	0.133	34
	PM04 B	µg/l	- ±	-	-	-
Glyphosate	PM04 A	µg/l	0.475 ±	0.018	0.095	20
	PM04 B	µg/l	- ±	-	-	-
Heptachlor	PM04 A	µg/l	0.0863 ±	0.0261	0.0431	50
	PM04 B	µg/l	- ±	-	-	-
Heptachlor epoxid	PM04 A	µg/l	0.106 ±	0.0214	0.0381	36
	PM04 B	µg/l	- ±	-	-	-
Hexazinone	PM04 A	µg/l	0.501 ±	0.0444	0.0651	13
	PM04 B	µg/l	- ±	-	-	-
Imidacloprid	PM04 A	µg/l	0.132 ±	0.00822	0.0197	15
	PM04 B	µg/l	- ±	-	-	-
Iodosulfuron-methyl	PM04 A	µg/l	0.298 ±	0.0208	0.0298	10
	PM04 B	µg/l	- ±	-	-	-
Isoproturon	PM04 A	µg/l	0.565 ±	0.0218	0.0622	11
	PM04 B	µg/l	- ±	-	-	-
Isoproturon-desmethyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.199 ±	0.0127	0.0219	11
MCPA	PM04 A	µg/l	0.336 ±	0.00908	0.0336	10
	PM04 B	µg/l	- ±	-	-	-
MCPB	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.404 ±	0.0286	0.0444	11
MCPP (Mecoprop)	PM04 A	µg/l	0.479 ±	0.016	0.0623	13
	PM04 B	µg/l	- ±	-	-	-
Mesosulfuron-methyl	PM04 A	µg/l	0.29 ±	0.023	0.029	10
	PM04 B	µg/l	- ±	-	-	-
Metalaxyl	PM04 A	µg/l	0.371 ±	0.021	0.0445	12
	PM04 B	µg/l	0.163 ±	0.0115	0.0244	15
Metamitron	PM04 A	µg/l	0.521 ±	0.0406	0.0938	18
	PM04 B	µg/l	- ±	-	-	-
Metazachlor	PM04 A	µg/l	0.127 ±	0.00465	0.0152	12

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Metazachlor	PM04 B	µg/l	- ±	-	-	-
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.732 ±	0.0307	0.139	19
Metazachlor Metabolite BH 479-9 ^{***}	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Metazachlor oxanilic acid (Metazachlor-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	1.39 ±	0.0656	0.293	21
Metolachlor	PM04 A	µg/l	0.4 ±	0.0195	0.0599	15
	PM04 B	µg/l	- ±	-	-	-
Metribuzin	PM04 A	µg/l	0.429 ±	0.0223	0.0558	13
	PM04 B	µg/l	- ±	-	-	-
Metribuzin-desamino*	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Metsulfuron-methyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.145 ±	0.0105	0.0159	11
N,N-Dimethylsulfamide (DMS)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	3.46 ±	0.264	0.519	15
Nicosulfurone	PM04 A	µg/l	0.915 ±	0.136	0.229	25
	PM04 B	µg/l	- ±	-	-	-
Nicosulfuron Metabolite UCSN**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.448 ±	0.0788	0.112	25
Pethoxamide	PM04 A	µg/l	0.314 ±	0.0321	0.0535	17
	PM04 B	µg/l	- ±	-	-	-
Propazine	PM04 A	µg/l	0.448 ±	0.0228	0.0582	13
	PM04 B	µg/l	- ±	-	-	-
Propazine-2-hydroxy	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.393 ±	0.0329	0.0471	12
Propiconazole	PM04 A	µg/l	0.691 ±	0.0507	0.111	16
	PM04 B	µg/l	- ±	-	-	-
Quinmerac**	PM04 A	µg/l	0.308 ±	0.0232	0.0308	10
	PM04 B	µg/l	- ±	-	-	-
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	1.14 ±	0.0632	0.228	20
s-Metolachlor Metabolite CGA 368208	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.156 ±	0.0178	0.0327	21
s-Metolachlor Metabolite NOA 413173	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.649 ±	0.101	0.169	26
s-Metolachlor oxanilic acid (Metolachlor-OA)	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	1.05 ±	0.0492	0.147	14
Simazine	PM04 A	µg/l	0.203 ±	0.00984	0.0224	11
	PM04 B	µg/l	- ±	-	-	-
Terbutylazine	PM04 A	µg/l	0.236 ±	0.0118	0.0259	11
	PM04 B	µg/l	- ±	-	-	-

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Terbutylazine-2-hydroxy	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.608 ±	0.0768	0.116	19
Terbutylazine-desethyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.234 ±	0.00647	0.0257	11
Terbutylazine-desethyl-2-hydroxy	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.763 ±	0.0766	0.122	16
Terbutylazine Metabolite CGA 324007 (LM5)**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.196 ±	0.00904	0.0196	10
Terbutylazine Metabolite SYN 545666 (LM6)**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.267 ±	0.0167	0.032	12
Terbutylazine Metabolite SYN 546009 (LM3)**	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Thiacloprid	PM04 A	µg/l	0.643 ±	0.0406	0.09	14
	PM04 B	µg/l	- ±	-	-	-
Thiamethoxam	PM04 A	µg/l	0.285 ±	0.0168	0.0485	17
	PM04 B	µg/l	- ±	-	-	-
Thifensulfuron-methyl	PM04 A	µg/l	0.205 ±	0.0155	0.0246	12
	PM04 B	µg/l	- ±	-	-	-
Tolylfluanide	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Tribenuron-methyl*	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	- ±	-	-	-
Triclopyr	PM04 A	µg/l	0.716 ±	0.0616	0.1	14
	PM04 B	µg/l	- ±	-	-	-
Triflursulfuron-methyl	PM04 A	µg/l	- ±	-	-	-
	PM04 B	µg/l	0.206 ±	0.0218	0.0288	14
Tritosulfuron	PM04 A	µg/l	0.801 ±	0.0662	0.104	13
	PM04 B	µg/l	- ±	-	-	-

* For the following substances, the calculated mean values MW+/- U(k=2) based on the data of the accredited laboratories (n) or control laboratory (C) are listed for information. These can be used for comparison as part of your internal QA measures:

2-Amino-4-Methoxy-6-Methyl-1,3,5-triazine:
PM04 B: (n=4) 0.133 +/- 0.0226 µg/l U(k=2)

Dimethachlor Metabolite CGA 373464 acetic acid methyl ester:
PM04 B: (n=2) 0.244 +/- 0.072 µg/l U(k=2)

Dimethachlor Metabolite CGA 373464 free Acid:
PM04 B: (n=3) 0.510 +/- 0.0979 µg/l U(k=2)

Ethidimuron:
PM04 A: (n=3) 0.474 +/- 0.00706 µg/l U(k=2)
PM04 B: (n=3) 0.475 +/- 0.0141 µg/l U(k=2)

Flazasulfuron:
PM04 A: (n=4) 0.367 +/- 0.0242 µg/l U(k=2)

Metazachlor Metabolite BH 479-9:
PM04 B: (n=4) 0.804 +/- 0.170 µg/l U(k=2)

Metribuzin-Desamino:
PM04 B: (n=5) 0.243 +/- 0.0137 µg/l U(k=2)

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Dieldrin:

PM04 B: (C) 0.00593 +/- 0.00178 µg/l U(k=2)

Terbuthylazine Metabolite SYN 546009 (LM3):

PM04 B: (C) 0.833 +/- 0.167 µg/l U(k=2)

Tribenuron-methyl:

PM04 A: (C) 0.569 +/- 0.0854 µg/l U(k=2)

** The assessment of these parameters serves only as an informative value, as there is no accreditation for these parameters. The relative reproducibility standard deviation (vR) was chosen as the criterion for these parameters.

All other substances are below the detection limit (<LOD), see information in the report.

Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)