

Table of assigned values Pesticides H116

1st Edition, 27.07.2023

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
2,4,5-Trichlorophenoxyacetic acid	H116 A	µg/l	0.255 ±	0.0149	0.0458	18
	H116 B	µg/l	0.635 ±	0.0499	0.114	18
2,4-D (2,4-Dichlorphenoxyacetic acid)	H116 A	µg/l	0.231 ±	0.00911	0.0324	14
	H116 B	µg/l	0.761 ±	0.0295	0.107	14
Alachlor	H116 A	µg/l	0.17 ±	0.0095	0.0203	12
	H116 B	µg/l	0.405 ±	0.0158	0.0487	12
Alachlor-t-acid (Alachlor-OA)	H116 A	µg/l	0.204 ±	0.0116	0.0306	15
	H116 B	µg/l	0.544 ±	0.106	0.152	28
Alachlor-t-sulfonic acid (Alachlor-ESA)	H116 A	µg/l	0.228 ±	0.0239	0.0296	13
	H116 B	µg/l	0.565 ±	0.0979	0.153	27
AMPA	H116 A	µg/l	0.132 ±	0.00728	0.0171	13
	H116 B	µg/l	0.621 ±	0.0318	0.0808	13
Bentazone	H116 A	µg/l	0.24 ±	0.00899	0.0361	15
	H116 B	µg/l	0.551 ±	0.0202	0.0826	15
Chlorothalonil-4-hydroxy **	H116 A	µg/l	0.33 ±	0.0162	0.033	10
	H116 B	µg/l	0.911 ±	0.033	0.0911	10
Chlorothalonil Metabolite R471811 **	H116 A	µg/l	0.648 ±	0.0384	0.0648	10
	H116 B	µg/l	0.505 ±	0.043	0.0757	15
Chlorothalonil Metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid) **	H116 A	µg/l	0.195 ±	0.0248	0.0371	19
	H116 B	µg/l	0.5 ±	0.0107	0.05	10
Chlorothalonil Metabolite R611968 **	H116 A	µg/l	- ±	-	-	-
	H116 B	µg/l	- ±	-	-	-
Chlorothalonil Metabolite SYN507900 **	H116 A	µg/l	0.243 ±	0.0216	0.0316	13
	H116 B	µg/l	0.687 ±	0.0529	0.0755	11
Chlorothalonil Metabolite SYN548580 **	H116 A	µg/l	- ±	-	-	-
	H116 B	µg/l	- ±	-	-	-
Chlorothalonil Metabolite SYN548581 **	H116 A	µg/l	- ±	-	-	-
	H116 B	µg/l	- ±	-	-	-
Chlorothalonil sulfonic acid (Chlorothalonil-ESA) **	H116 A	µg/l	0.411 ±	0.0293	0.0493	12
	H116 B	µg/l	0.611 ±	0.0328	0.0611	10
Dicamba	H116 A	µg/l	0.286 ±	0.0238	0.0573	20
	H116 B	µg/l	0.626 ±	0.0445	0.125	20
Dichlorprop	H116 A	µg/l	0.154 ±	0.0034	0.0185	12
	H116 B	µg/l	0.502 ±	0.0113	0.0602	12
Dimethachlor Metabolite - CGA 369873 **	H116 A	µg/l	0.514 ±	0.0326	0.0565	11
	H116 B	µg/l	0.507 ±	0.0451	0.0811	16
Glufosinate	H116 A	µg/l	0.128 ±	0.0187	0.0436	34

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Glufosinate	H116 B	µg/l	0.254 ± 0.0247	0.0865	34
Glyphosate	H116 A	µg/l	0.191 ± 0.0114	0.0382	20
	H116 B	µg/l	0.528 ± 0.0292	0.106	20
MCPP (Mecoprop)	H116 A	µg/l	0.213 ± 0.00762	0.0277	13
	H116 B	µg/l	0.586 ± 0.0191	0.0761	13
Metazachlor	H116 A	µg/l	0.122 ± 0.00493	0.0146	12
	H116 B	µg/l	0.588 ± 0.0262	0.0705	12
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	H116 A	µg/l	0.179 ± 0.00711	0.0341	19
	H116 B	µg/l	0.432 ± 0.0284	0.082	19
Metazachlor oxanilic acid (Metazachlor-OA)	H116 A	µg/l	0.271 ± 0.0175	0.0569	21
	H116 B	µg/l	0.71 ± 0.0538	0.149	21
Metolachlor	H116 A	µg/l	0.226 ± 0.00884	0.0339	15
	H116 B	µg/l	0.772 ± 0.0234	0.116	15
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	H116 A	µg/l	0.227 ± 0.00949	0.0453	20
	H116 B	µg/l	0.547 ± 0.0288	0.109	20
s-Metolachlor oxanilic acid (Metolachlor-OA)	H116 A	µg/l	0.136 ± 0.00552	0.0191	14
	H116 B	µg/l	0.596 ± 0.018	0.0835	14

* For the following substances, the calculated mean values MV±/· U(k=2) based on the data of the accredited laboratories (n) are listed for information.

These can be used for comparison as part of your internal QA measures:

Chlorothalonil Metabolite R611968:

H116 A: (n=5) 0.183 ±/· 0.0170 µg/l U(k=2)

H116 B: (n=5) 0.510 ±/· 0.0425 µg/l U(k=2)

Chlorothalonil Metabolite SYN548580:

H116 A: (n=2) 0.291 ±/· 0.0462 µg/l U(k=2)

H116 B: (n=2) 0.505 ±/· 0.0819 µg/l U(k=2)

Chlorothalonil Metabolite SYN548581:

H116 A: (n=4) 0.187 ±/· 0.00803 µg/l U(k=2)

H116 B: (n=5) 0.570 ±/· 0.0859 µg/l U(k=2)

** The assessment of the Chlorothalonil metabolites serves only as an informative value, as there is no accreditation for these parameters.

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)