

Table of assigned values Pesticides H110

1st Edition 02.08.2021

Table of assigned values

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
2,4,5-Trichlorophenoxyacetic acid	H110 A	µg/l	0.637 ±	0.0325	0.115	18
	H110 B	µg/l	0.121 ±	0.00822	0.0219	18
2,4-D (2,4-Dichlorphenoxyaceticacid)	H110 A	µg/l	0.293 ±	0.0138	0.041	14
	H110 B	µg/l	0.783 ±	0.0325	0.11	14
Alachlor	H110 A	µg/l	0.253 ±	0.0151	0.0303	12
	H110 B	µg/l	0.776 ±	0.0446	0.0931	12
Alachlor-t-acid (Alachlor-OA)	H110 A	µg/l	0.165 ±	0.0102	0.0247	15
	H110 B	µg/l	0.115 ±	0.00792	0.0172	15
Alachlor-t-sulfonic acid (Alachlor-ESA)	H110 A	µg/l	0.414 ±	0.023	0.0397	9.6
	H110 B	µg/l	0.216 ±	0.0151	0.028	13
AMPA	H110 A	µg/l	0.436 ±	0.0433	0.0567	13
	H110 B	µg/l	0.329 ±	0.0339	0.0428	13
Bentazone	H110 A	µg/l	0.25 ±	0.00846	0.0375	15
	H110 B	µg/l	0.498 ±	0.0158	0.0747	15
Chlorothalonil Metabolit R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)**	H110 A	µg/l	0.654 ±	0.0615	0.0785	12
	H110 B	µg/l	0.253 ±	0.0187	0.023	9.1
Chlorothalonil sulfonic acid (Chlorothalonil-ESA)**	H110 A	µg/l	0.514 ±	0.0499	0.0875	17
	H110 B	µg/l	0.186 ±	0.0187	0.0334	18
Dicamba	H110 A	µg/l	0.441 ±	0.0329	0.0882	20
	H110 B	µg/l	0.487 ±	0.0444	0.0973	20
Dichlorprop	H110 A	µg/l	0.183 ±	0.00775	0.022	12
	H110 B	µg/l	0.192 ±	0.00877	0.023	12
Dimethachlor Metabolite - CGA 369873**	H110 A	µg/l	0.292 ±	0.0126	0.0211	7.2
	H110 B	µg/l	0.115 ±	0.0103	0.0195	17
Glufosinate	H110 A	µg/l	0.29 ±	0.0424	0.0987	34
	H110 B	µg/l	0.127 ±	0.0221	0.0432	34
Glyphosate	H110 A	µg/l	- ±	-	-	-
	H110 B	µg/l	0.713 ±	0.069	0.143	20
MCP (Mecoprop)	H110 A	µg/l	0.108 ±	0.00421	0.0141	13
	H110 B	µg/l	0.449 ±	0.016	0.0584	13
Metazachlor	H110 A	µg/l	- ±	-	-	-
	H110 B	µg/l	0.222 ±	0.0101	0.0266	12
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	H110 A	µg/l	0.961 ±	0.0475	0.183	19
	H110 B	µg/l	0.177 ±	0.0116	0.0337	19
Metazachlor oxanilic acid (Metazachlor-OA)	H110 A	µg/l	0.811 ±	0.101	0.17	21
	H110 B	µg/l	0.313 ±	0.0285	0.0658	21
Metolachlor	H110 A	µg/l	- ±	-	-	-
	H110 B	µg/l	0.268 ±	0.0145	0.0402	15
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	H110 A	µg/l	0.418 ±	0.0197	0.0836	20
	H110 B	µg/l	0.334 ±	0.0211	0.0668	20

Table of assigned values Pesticides H110

1st Edition 02.08.2021

Parameter	Sample	Unit	Assigned value ±	U (k=2)	Criterion	Criterion [%]
s-Metolachlor oxanilic acid (Metolachlor-OA)	H110 A	µg/l	0.88 ±	0.045	0.123	14
	H110 B	µg/l	0.636 ±	0.0326	0.089	14
Chlorothalonil-4-hydroxy **	H110 A	µg/l	0.139 ±	0.0117	0.0139	10
	H110 B	µg/l	0.704 ±	0.119	0.155	22
Chlorothalonil Metabolite R471811**	H110 A	µg/l	0.381 ±	0.0261	0.0419	11
	H110 B	µg/l	0.678 ±	0.0614	0.102	15
Chlorothalonil Metabolite R611968 **	H110 A	µg/l	0.505 ±	0.0334	0.0409	8.1
	H110 B	µg/l	0.332 ±	0.0236	0.0288	8.7
Chlorothalonil Metabolite SYN507900**	H110 A	µg/l	0.192 ±	0.017	0.025	13
	H110 B	µg/l	0.383 ±	0.0238	0.0337	8.8
Chlorothalonil Metabolite SYN548580**	H110 A	µg/l	- ±	-	-	-
	H110 B	µg/l	- ±	-	-	-
Chlorothalonil Metabolit SYN548581**	H110 A	µg/l	- ±	-	-	-
	H110 B	µg/l	- ±	-	-	-

*Chlorothalonil Metabolites SYN548580 and SYN548581 sample H110A and H110B: Since less than 6 results were available, no assigned value could be determined.

In the context of internal QA, comparison with the values of the control laboratory is recommended:

Chlorothalonil Metabolite SYN548580

H110A: 0.478 µg/l +/- 0.12 U(k=2)

H110B: 0.201 µg/l +/- 0.0504 U(k=2)

Chlorothalonil Metabolite SYN548581

H110A: 0.713 µg/l +/- 0.178 U(k=2)

H110B: 0.381 µg/l +/- 0.0952 U(k=2)

** The assessment of the Chlorothalonil metabolites is only used 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.

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)