



QUASIMEME

Quality assurance of information
for marine environmental monitoring

Certificate of Analysis



Triazines and organophosphorus compounds in seawater

REFERENCE MATERIAL

AQ8 sample 122



Certificate of Analysis AQ8 122

General Information

In this report an overview is given of analytical data for this sample collected in our proficiency testing program. The consensus values are calculated using a robust statistical model. With this NDA model mean and standard deviation are calculated using all reported data when at least 4 results are left after removal of reported 'lower than' (<) and 0 (= zero) values. No outliers are removed.

This report is divided into two sections: Consensus Values and Indicative Values. The division is made on the reliability of the data. Consensus Values are based on at least 10 results while the relative uncertainty is smaller than 6.25%. Indicative Values are based on a relative uncertainty of maximum 35% with at least 4 and less than 10 results or a relative uncertainty higher than 6.25%.

For each determinand the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation) and the uncertainty in the assigned value. The confidence limits (at 95 % probability) are calculated for these determinands.

Sample information

QUASIMEME reference materials cover a range of natural SeaWater species from contaminated waters from the North Sea and/or Mediterranean.

This AQ8 sample 122 of Low salinity seawater with spike solution from North Sea (diluted) is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the periods given in the following table.

Year.Round	Program	Sample Round Id
2023.1	AQ8	QTP114SW



Indicative Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	95 % confidence limits		
Atrazine	ng/l	1303	464.3	35.6	12	1255	288.1	167.5	1011	-	1595
Azinphos-methyl	ng/l	285	50.5	17.7	6	287	38.3	25.8	235	-	336
Azinphos-ethyl	ng/l	553	51.5	9.3	6	562	19.9	26.3	501	-	604
Fenthion	ng/l	-	-	-	4	351	32.5	-	-	-	-
Malathion	ng/l	349	36.8	10.6	7	345	22.0	17.4	316	-	381
Parathion-ethyl	ng/l	264	49.1	18.6	6	261	38.2	25.1	215	-	313
Parathion-methyl	ng/l	-	-	-	5	398	58.0	-	-	-	-
Fenitrothion	ng/l	641	111.1	17.3	6	660	60.6	56.7	530	-	752
Dichlorvos	ng/l	465	171.5	36.8	10	459	117.2	67.8	345	-	586
Chlorfenvinphos	ng/l	535	135.3	25.3	11	512	108.2	51.0	445	-	625
Diazinon	ng/l	447	98.8	22.1	7	462	57.8	46.7	359	-	536
Simazine	ng/l	770	129.5	16.8	11	803	53.0	48.8	684	-	856
Dimethoate	ng/l	414	97.1	23.5	7	432	45.5	45.9	327	-	501
Omethoate	ng/l	-	-	-	4	335	14.3	-	-	-	-
Irgarol-1051	ng/l	350	66.1	18.9	6	343	41.2	33.7	284	-	416
Atrazine-desethyl	ng/l	250	82.3	32.9	7	250	42.0	38.9	177	-	324
Terbutylazine	ng/l	464	70.7	15.2	9	470	42.1	29.4	410	-	517
Diuron	ng/l	661	237.1	35.9	11	716	125.0	89.4	504	-	819
Chlorpyrifos	ng/l	594	101.7	17.1	10	600	54.7	40.2	522	-	665
Isoproturon	ng/l	748	272.9	36.5	11	718	152.0	102.9	567	-	929
Alachlor	ng/l	729	144.2	19.8	9	737	78.7	60.1	620	-	838
Thiamethoxam	ng/l	-	-	-	4	940	362.5	-	-	-	-
Thiacloprid	ng/l	341	64.2	18.8	6	356	36.0	32.8	277	-	405
Terbutryn	ng/l	387	60.4	15.6	7	394	33.0	28.5	333	-	441
Quinoxifen	ng/l	418	114.1	27.3	8	418	81.7	50.4	325	-	511
Nicosulfuron	ng/l	-	-	-	4	163	90.2	-	-	-	-
Imidacloprid	ng/l	-	-	-	5	441	59.2	-	-	-	-
Dicofol	ng/l	342	149.3	43.6	7	338	82.6	70.5	209	-	476
Cypermethrin	ng/l	150	15.7	10.5	6	146	10.6	8.0	135	-	166
Chlotianidin	ng/l	-	-	-	5	413	305.2	-	-	-	-
Bifenox	ng/l	313	44.2	14.1	6	310	25.2	22.5	268	-	357
Aclonifen	ng/l	384	75.2	19.6	9	383	46.3	31.3	328	-	441