



WEPAL-QUASIMEME

Certificate of Analysis



Triazines and organophosphorus compounds in seawater

REFERENCE MATERIAL

AQ8 sample 131

2026-Aug-13



Certificate of Analysis AQ8 131

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, the 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 8 results and a maximum relative uncertainty of 6.25%. Indicative Values are based on a maximum relative uncertainty of 35% and a minimum of 4 and maximum of 7 results, or a relative uncertainty greater than 6.25% when there are at least 8 results.

For each measurand, the following parameters are given: mean, standard deviation, coefficient of variation, number of results, median, MAD (Median of Absolute Deviation), the uncertainty of the mean (consensus or indicative) value and the relative uncertainty.

Please note: Most WEPAL-QUASIMEME reference materials are found to be stable over the long term (>10 years) for most measurand/matrix combinations. There are a few exceptions known to us as being less stable over the long term. These are organotins in sediment (MS6), ASP in shellfish (BT7), some PAHs and PCBs in sediment (SETOC) and N-NH₄ (as N) & N-NO₃ (as N) in clay soils (ISE).

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 131 of Low salinity seawater with spike solution from North Sea, the Netherlands is prepared for the QUASIMEME proficiency programs. The results on which the values in this report are based were taken from the rounds given in the following table.

Year.Round	Program	Sample Round Id
2026.1	AQ8	QTP123SW



Consensus Values AQ8

Method: OPs&Herb - AQ8

Element

Atrazine

Unit
ng/l

Mean
1065

Std.Dev.
160

CV %
15.0

N
9

Median
1046

MAD
116

Uncertainty
66.6

Rel.Uncert. %
6.25



Indicative Values AQ8

Method: OPs&Herb - AQ8

Element	Unit	Mean	Std.Dev.	CV %	N	Median	MAD	Uncertainty	Rel.Uncert. %
Azinphos-methyl	ng/l	553	43.7	7.9	4	557	20.0	27.3	4.94
Malathion	ng/l	479	188	39.1	4	472	86.8	117	24.5
Parathion-ethyl	ng/l	524	77.8	14.8	4	532	37.5	48.6	9.27
Dichlorvos	ng/l	602	190	31.5	7	610	77.5	89.5	14.9
Chlorfenvinphos	ng/l	976	313	32.0	6	958	192	159	16.3
Diazinon	ng/l	341	63.9	18.7	4	350	31.7	39.9	11.7
Simazine	ng/l	1590	195	12.3	7	1590	110	92.3	5.81
Dimethoate	ng/l	475	152	32.0	5	520	80.0	84.9	17.9
Irgarol-1051	ng/l	687	110	16.0	7	705	74.9	51.8	7.54
Atrazine-desethyl	ng/l	657	166	25.2	6	690	65.0	84.5	12.9
Terbutylazine	ng/l	684	137	20.1	5	654	104	76.8	11.2
Diuron	ng/l	1091	104	9.5	7	1060	57.6	49.0	4.49
Chlorpyrifos	ng/l	678	98.2	14.5	7	700	48.2	46.4	6.84
Isoproturon	ng/l	248	16.3	6.6	7	252	9.32	7.72	3.11
Alachlor	ng/l	527	152	28.7	5	555	89.3	84.7	16.1
Thiamethoxam	ng/l	417	41.8	10.0	4	431	22.0	26.1	6.26
Terbutryn	ng/l	265	61.8	23.3	6	268	35.4	31.5	11.9
Quinoxifen	ng/l	234	35.6	15.2	4	238	17.5	22.2	9.50
Dicofol	ng/l	57.1	12.4	21.7	5	59.5	7.80	6.94	12.2
Cypermethrin	ng/l	378	207	54.7	6	373	149	106	27.9
BifenoX	ng/l	150	10.1	6.8	5	146	6.32	5.66	3.78
Aclonifen	ng/l	418	56.8	13.6	5	410	31.0	31.7	7.60