INTERNATIONAL STANDARD

ISO 16588

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Water quality — Determination of six complexing agents — Gas-chromatographic method

AMENDMENT 1

Qualité de l'eau — Dosage de six agents complexants — Méthode par chromatographie en phase gazeuse

AMENDEMENT 1



ISO 16588:2002/Amd.1:2004(E)

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Water quality — Determination of six complexing agents — Gas-chromatographic method

AMENDMENT 1

Page 9, Clause 10

Add the following after Clause 9 and renumber the subsequent clauses accordingly:

"10 Precision

Results from an interlaboratory trial are given for information in Annex B."

Page 12, Annex B

Add the following after Annex A.

Annex B

(informative)

Results of an interlaboratory trial

The results of an interlaboratory trial carried out in Germany are given in Table B.1.

Table B.1 — Interlaboratory trial data

Sample	Compound	l	n	o	$x_{\rm corr}$	X	η	s_R	CV_R	S_r	CV_r
				%	μg/l	μ g /l	%	μg/l	%	μ g /l	%
1	EDTA	11	41	18,0	1,2	1,3	106,9	0,24	19,1	0,16	12,3
	NTA	12	46	0,0	1,8	1,8	99,6	0,55	30,6	0,17	9,6
	DTPA	8	28	12,5	2,5	1,8	72,7	1,00	54,9	0,49	27,1
	MGDA	9	34	19,0	2,1	2,3	107,4	0,53	23,3	0,24	10,6
	β-ADA	10	38	5,0	1,9	2,0	106,2	1,09	54,2	0,23	11,3
	1,3-PDTA	7	26	35,0	2,0	1,5	76,2	0,35	22,7	0,30	19,6
2	EDTA	13	50	0,0	_	3,9	_	1,18	30,4	0,37	9,5
	NTA	10	38	9,5	_	1,0	_	0,35	36,8	0,08	8,5
	DTPA	4	15	21,1	_	0,7		0,15	21,3	0,10	13,9
	MGDA			_	_		_	_	_	_	_
	β-ADA	_	_	_	_	_	_	_	_	_	_
	1,3-PDTA	5	18	18,2	_	0,6	_	0,14	22,7	0,06	9,3
3	EDTA	12	46	8,0	2,0	3,6	182,0	1,11	30,5	0,31	8,6
	NTA	11	40	16,7	3,8	3,6	94,6	0,89	24,7	0,20	5,5
	DTPA	8	30	0,0	2,5	2,0	81,7	0,61	29,8	0,26	12,8
	MGDA	9	34	19,0	4,7	4,2	90,1	1,72	40,5	0,28	6,6
	β-ADA	11	42	0,0	3,9	3,4	87,7	1,37	39,9	0,31	9,1
	1,3-PDTA	9	34	10,5	4,0	3,5	88,1	1,34	37,9	0,34	9,6
4	EDTA	11	42	16,0	_	15,8	_	7,51	47,5	1,26	8,0
	NTA	11	42	8,7	_	4,5		1,36	30,4	0,42	9,4
	DTPA	8	29	3,3	5,3	3,2	59,8	1,98	62,5	0,29	9,2
	MGDA	5	17	0,0	_	0,6	_	0,23	37,9	0,10	15,6
	β-ADA	9	32	20,0	4,9	5,6	113,5	2,97	53,4	0,38	6,9
	1,3-PDTA	_	_		_	_	_	_		_	_

where

n

0

 x_{corr} X

is the number of received laboratory sets (including outliers); η is the number of outlier-free individual analytical values;

 S_R CV_R is the relative portion of outliers; is the correct value by convention;

is the total mean, depending on outlier-free values;

is the recovery rate;

is the reproducibility standard deviation;

is the reproducibility coefficient of variation;

is the repeatability standard deviation;

is the repeatability coefficient of variation.

Sample:

1 Drinking water, spiked.

2 Surface water (Donau).

3 Surface water (Isar), spiked.

Effluent treatment plant Munich, spiked.

 CV_r

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