

KERAKOLL SpA Headquarter
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41049 Sassuolo (MO)
Italy

Test Report No. 60981-A001-CAM-L

Test objective:	Proof of conformity with the Italian VOC-regulation (CAM 2025)
Article designation according to order:	Aqualite Wood
Date of report:	03/08/2026
Number of pages of report:	16
Testing / responsible laboratory:	eco-INSTITUT Germany GmbH, Köln
Test objective fulfilled:	✓ Basic requirements 2.4.1 ✓ Premium requirements 3.2.6
Note:	The test results in the report refer exclusively to the test sample submitted by the manufacturer. The report is not permitted to be used in product and company advertising. The report may be published in full as technical documentation on the Internet with the written consent of eco-INSTITUT Germany GmbH. eco-INSTITUT Germany GmbH has recommended that the manufacturer repeats the test after 3 years at the latest. Further information at www.eco-institut.de/en/advertising

Content

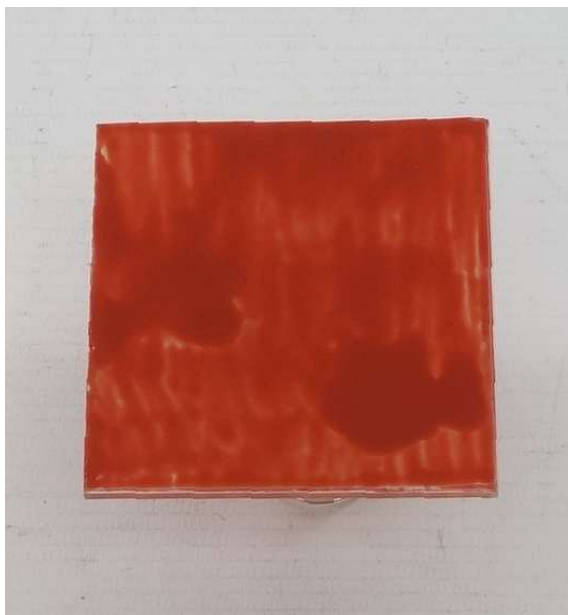
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Sample View

Internal sample number (filled in by laboratory)

60981-A001

Photo of the test specimen: A001



Article designation according to order:

Aqualite Wood

Sample/batch number according to order:

PTKK00399

Type of sample:

Liquid water based paint

Date of production:

22/01/2026

Sampling by:

BASTAROLO MARINA

Date of sampling:

22/01/2026

Location of sampling:

no information

Receipt of sample / Condition upon delivery:

06/05/2026 / without objection

Statement of conformity with the Italian VOC regulation CAM

The sample with the internal sample no. 60981-A001 has been tested on behalf of **KERAKOLL SpA Headquarter**. The article description according to the order is **Aqualite Wood**.

This evaluation bases on the test criteria of the DECRETO 24 novembre 2025 der G.U. Serie Generale n. 281 of 03 December 2025 of the Italian Ministry for Ecological Transition (Criteri ambientali minimi per l'affidamento del servizio di progettazione e direzione lavori di interventi edilizi e opere di ingegneria civile, esecuzione di lavori, inclusi gli interventi di costruzione, ristrutturazione, manutenzione e adeguamento).

The results documented in the test report were evaluated as follows.¹

2.4.1 Specifiche tecniche per I prodotti da costruzione - Emissioni negli ambienti confinati (inquinamento indoor)

Emission analysis	Concentration (Test chamber air) [µg/m³]	Requirement [µg/m³]	Requirement hold [yes/no]
Measurement time: 28 days after test chamber loading			
Formaldehyde	< 2	< 60	yes
Acetaldehyde	< 2	< 200	yes
Toluene	< 1	< 300	yes
Tetrachlorethylene	< 1	< 250	yes
Xylene	< 1	< 300	yes
1,2,4-Trimethylbenzene	< 1	< 1000	yes
1,4-Dichlorbenzene	< 1	< 60	yes
Ethylbenzene	< 1	< 750	yes
2-Butoxyethanol	< 1	< 1000	yes
Styrene	< 1	< 250	yes
Benzene	< 1	< 1	yes
Trichlorethylene	< 1	< 1	yes
Di(2-ethylhexyl)phthalate (DEHP)	< 1	< 1	yes
Dibutylphthalate (DBP)	< 1	< 1	yes
TVOC according to DIN ISO 16000-6	5	< 1000	yes

¹ If a measurement result that slightly exceeds the specification is assessed as "not fulfilled", this is based on the agreement of the "shared risk of measurement uncertainty (shared risk approach)". According to this, the probability that the statement is correct is $\geq 50\%$. Similarly, a result slightly below the specification value also only has a probability of $\geq 50\%$ of being compliant. I.e., the risk of making a false negative statement regarding the fulfilment of the specification is just as high as the risk of making a false positive statement (more information at https://www.eco-institut.de/en/2019/07/measurement_uncertainty/).

3.2.6 Criteri premianti per l'affidamento dei lavori - Emissioni indoor

Emission analysis	Concentration (Test chamber air) [µg/m³]	Requirement [µg/m³]	Requirement hold [yes/no]
Measurement time: 28 days after test chamber loading			
Formaldehyde	< 2	< 10	yes
Acetaldehyde	< 2	< 100	yes
Toluene	< 1	< 150	yes
Tetrachlorethylene	< 1	< 120	yes
Xylene	< 1	< 100	yes
1,2,4-Trimethylbenzene	< 1	< 500	yes
1,4-Dichlorobenzene	< 1	< 30	yes
Ethylbenzene	< 1	< 350	yes
2-Butoxyethanol	< 1	< 500	yes
Styrene	< 1	< 120	yes
Benzene	< 1	< 1	yes
Trichlorethylene	< 1	< 1	yes
Di(2-ethylhexyl)phthalate (DEHP)	< 1	< 1	yes
Dibutylphthalate (DBP)	< 1	< 1	yes
TVOC according to DIN ISO 16000-6	5	< 500	yes



Summary statement of conformity with the Italian VOC regulation CAM

The sample with the internal sample no. 60981-A001, article description according to order: **Aqualite Wood**, meets the emission requirements: 'Basic requirements 2.4.1' and 'Premium requirements 3.2.6' of the DECRETO 24 novembre 2025 of the G.U. Serie Generale n. 281 of 03 December 2025 of the Italian Ministry for Ecological Transition (Criteri ambientali minimi per l'affidamento del servizio di progettazione e direzione lavori di interventi edilizi e opere di ingegneria civile, esecuzione di lavori, inclusi gli interventi di costruzione, ristrutturazione, manutenzione e adeguamento).

Cologne, 03/08/2026

A handwritten signature in black ink, appearing to read "M.A. Dobaj", with a stylized flourish at the end.

Marc-Anton Dobaj, M.Sc. Crystalline Materials
(Project management)

Dichiarazione di conformità al regolamento italiano CAM sui COV

Il campione con il numero di campione interno 60981-A001 è stato sottoposto a un test sul prodotto per conto **KERAKOLL SpA Headquarter**. La descrizione dell'articolo secondo l'ordine è **Aqualite Wood**.

La base di valutazione è costituita dai criteri indicati nel DECRETO 24 novembre 2025 del G.U. Serie Generale n. 281 del 03 dicembre 2025 del Ministero della transizione ecologica (Criteri ambientali minimi per l'affidamento del servizio di progettazione di interventi edilizi, per l'affidamento dei lavori per interventi edilizi e per l'affidamento congiunto di progettazione e lavori per interventi edilizi).

I risultati documentati nel rapporto sul test saranno valutati come segue.²

2.4.1 Specifiche tecniche per i prodotti da costruzione - Emissioni negli ambienti confinati (inquinamento indoor)

Analisi delle emissioni	Concentrazione (aria della camera di prova) [µg/m³]	Requisito [µg/m³]	Requisito soddisfatto [sì/no]
Periodo della misurazione - 28 giorni dal carico della camera di prova			
Formaldeide	< 2	< 60	sì
Acetaldeide	< 2	< 200	sì
Toluene	< 1	< 300	sì
Tetracloroetilene	< 1	< 250	sì
Xilene	< 1	< 300	sì
1,2,4-trimetilbenzene	< 1	< 1000	sì
1,4-diclorbenzene	< 1	< 60	sì
Etilbenzene	< 1	< 750	sì
2-butossietanolo	< 1	< 1000	sì
Stirene	< 1	< 250	sì
Benzene	< 1	< 1	sì
Tricloretilene	< 1	< 1	sì
Di(2-etilestil)ftalato (DEHP)	< 1	< 1	sì
Ftalato di dibutile (DBP)	< 1	< 1	sì
TVOC secondo DIN ISO 16000-6	5	< 1000	sì

² Se un risultato di misurazione che supera leggermente il requisito viene valutato come "non conforme", ciò si basa sull'accordo del "rischio condiviso dell'incertezza di misurazione (approccio del rischio condiviso)". Secondo tale approccio, la probabilità che l'affermazione sia corretta è $\geq 50\%$. Allo stesso modo, anche un risultato leggermente inferiore al valore richiesto è conforme solo con una probabilità $\geq 50\%$. Ciò significa che il rischio di fornire un'affermazione falsa negativa sul soddisfacimento del requisito è altrettanto elevato quanto il rischio di fornire un'affermazione falsa positiva (maggiori informazioni su https://www.eco-institut.de/en/2019/07/measurement_uncertainty/).

3.2.6 Criteri premianti per l'affidamento dei lavori - Emissioni indoor

Analisi delle emissioni	Concentrazione (aria della camera di prova) [µg/m³]	Requisito [µg/m³]	Requisito soddisfatto [si/no]
Periodo della misurazione - 28 giorni dal carico della camera di prova			
Formaldeide	< 2	< 10	sì
Acetaldeide	< 2	< 100	sì
Toluene	< 1	< 150	sì
Tetracloroetilene	< 1	< 120	sì
Xilene	< 1	< 100	sì
1,2,4-trimetilbenzene	< 1	< 500	sì
1,4-diclorbenzene	< 1	< 30	sì
Etilbenzene	< 1	< 350	sì
2-butossietanolo	< 1	< 500	sì
Stirene	< 1	< 120	sì
Benzene	< 1	< 1	sì
Tricloretilene	< 1	< 1	sì
Di(2-etilesil)ftalato (DEHP)	< 1	< 1	sì
Ftalato di dibutile (DBP)	< 1	< 1	sì
TVOC secondo DIN ISO 16000-6	5	< 500	sì



Dichiarazione sintetica di conformità al regolamento italiano CAM sui COV

Il campione con il numero di campione interno 60981-A001, descrizione dell'articolo secondo l'ordine: **Aqualite Wood**, soddisfa i requisiti di emissioni: «Requisiti di base 2.4.1» e «Requisiti premium 3.2.6» di DECRETO 24 novembre 2025 del GU Serie Generale n. 281 del 03 dicembre 2025 del Ministero della transizione ecologica (Criteri ambientali minimi per l'affidamento del servizio di progettazione e direzione lavori di interventi edilizi e opere di ingegneria civile, esecuzione di lavori, inclusi gli interventi di costruzione, ristrutturazione, manutenzione e adeguamento).

Colonia, 03/08/2026

A handwritten signature in black ink, appearing to read "M.A. Dobaj".

Marc-Anton Dobaj, M.Sc. Crystalline Materials
(Gestione del progetto)

Laboratory report

1 Emission analysis

Test method

DIN EN 16516:2020-10

Testing and evaluation of the release of dangerous substances;
determination of emissions into indoor air

A001, Preparation of test specimen

Date:	23/06/2026
Test specimen preparation:	Application on glass; with a brush; application quantity 110 g/m ² ; drying / pre-conditioning outside of the test chamber for 72 hours
Masking of backside:	not applicable
Masking of edges:	no
Relationship of unmasked edges to surface:	not applicable
Arrangement in test chamber:	on tripod
Loading reference unit:	area-specific [m ²]
Dimensions:	7.1 cm x 7.1 cm with 0.55 g application

A001, Test chamber conditions according to DIN EN ISO 16000-9:2024-08

Chamber volume:	0.100 m ³
Temperature:	23 °C ± 1 °C
Relative humidity:	50 % ± 5 %
Air pressure:	normal
Air:	cleaned
Air change rate:	0.5 h ⁻¹
Air velocity:	0.3 m/s
Loading:	0.05 m ² /m ³
Specific air flow rate:	10 m ³ /(m ² ·h)
Starting time of the test (t ₀):	26/06/2026
Air sampling:	24/07/2026 (28 days after test chamber loading)

1.1 Phthalates (test chamber)

Test parameter:

Determination of Phthalates from the test chamber, air sampling 28 days after test chamber loading

Test method:

Analytics: DIN ISO 16000-33:2025-06
DIN ISO 16000-6:2022-03

Test result:

Internal sample number	Substance	Concentration (test chamber air) [µg/m³]	Limit of quantification (test chamber air) [µg/m³]
60981-A001	Dibutyl phthalate (DBP)	< LOQ	1
	Bis(2-ethylhexyl) phthalate (DEHP)	< LOQ	1

< LOQ = Value below limit of quantification

Cologne, 03/08/2026



Michael Stein, Dipl.-Chem.
(Laboratory management)

Appendix

Sampling sheet



Probenahmebegleitblatt

Bitte möglichst alle Felder ausfüllen. Sind die mit einem * gekennzeichneten Felder nicht ausgefüllt, können die Prüfstücke nicht zur Laborprüfung angenommen werden.

60981-A001

Bitte pro Probe ein Probenahmebegleitblatt ausfüllen! Die Probenahmeanleitung ist unbedingt einzuhalten!

Auftrag erteilt durch*	KERAKOLL S.P.A. Via dell'artigianato 9 41049 SASSUOLO (MO)	Prüflabor	eco-INSTITUT Germany GmbH Schanzenstr. 6-20, Carlswerk 1.19 D - 51063 Köln Tel. +49 (0)221 - 931245-0 Fax +49 (0)221 - 931245-33
Name des Herstellerbetriebes		Probenahme durch* (Name, Firma, Telefon)	BASTAROLO MARINA +39 0442 424757
Name des Vertriebs (wenn abweichend vom Herstellerbetrieb)		Probenahmeort*	
Prüfstück-/ Artikelbezeichnung*	AQUALITE WOOD	Probenart (z.B. Holzwerkstoff, Bodenbelag)	Liquid water based paint
Artikel-Nr.		Proben-/ Chargen-Nr.*	PTKK00399
Modell / Programm / Serie		Produktionsdatum der Charge*	22/01/2026
Probe entnommen aus	Fertigung Lager Sonstiges	Datum der Probenahme*	22/01/2026
Lagerort		Lagerung vor der Probenahme	offen verpackt
		Verpackungsmaterial	
ggf. zusätzliche Angaben / Besonderheiten zur Probenahme / Unklarheiten, Fragen, mögliche negative Einflüsse durch Emissionen am Probenahmeort - z.B. Kontaminationen während der Produktion/Lagerung			
Bestätigung* Hiermit wird durch die Unterzeichnung (Probenahme) die Richtigkeit der oben gemachten Angaben bestätigt.			
Datum (dd/mm/yyyy)	15/04/2026	Unterschrift	Bastarolo Marina
eco-INSTITUT Germany GmbH / Schanzenstrasse 6-20 / Carlswerk 1.19 / D-51063 Köln / Germany Tel. +49 221.931245-0 / Fax +49 221.931245-33 / eco-institut.de / Geschäftsführer: Dr. Frank Kuebart, Daniel Tigges HRB 17917 / USt-ID: DE 122653308 / Volksbank Rhein-Erft-Köln eG, IBAN: DE60370623651701900010, BIC: GENODE33HAN			

Definition of terms

CAS No. (Chemical Abstracts Service)	International designation standard for chemical substances
CMR	VOCs, VVOCs and SVOCs classified as carcinogenic, mutagenic or toxic for reproduction according to Regulation (EC) No. 1272/2008, TRGS 905, IARC list and DFG (MAK list)
Limit of quantification (LOQ)	Lower limit of quantification in the analytical method within the defined measurement uncertainty
NIK / LCI	Lowest concentration of interest; substance-specific value for health assessment of emissions from products, indicated in $\mu\text{g}/\text{m}^3$
RT (retention time)	Total time required for an analyte to pass the column (time between injection and detection of the analyte)
R value	Sum of quotients of concentration and LCI value for all substances for which a LCI value is derived
R value according to AgBB	R-value for all substances $\geq 5 \mu\text{g}/\text{m}^3$ with LCI value, calculated according to the LCI list of the AgBB scheme
R-value according to Belgian regulation	R-value for all substances $\geq 5 \mu\text{g}/\text{m}^3$ with LCI-value, calculated according to the LCI-list of the Belgian regulation
R value according to eco-INSTITUT-Label	R-value for all substances $\geq 1 \mu\text{g}/\text{m}^3$ with LCI value, calculated according to the LCI list of the AgBB scheme
R value according to EU-LCI	R-value for all substances $\geq 5 \mu\text{g}/\text{m}^3$ with EU-LCI value, calculated according to the EU-LCI list of the European Commission
SER	Specific emission rate (see "Explanation of Specific Emission Rate SER")
SVOC (semi volatile organic compound)	Organic compound eluting in the retention range > C16 (n-hexadecane) to C22 (docosane)
Toluene equivalent	Concentration of a substance quantified by the TIC response factor of toluene (calculation of the concentration by comparing the integral of the substance with the integral of toluene)
TSVOC	Sum of the concentrations of all identified and unidentified semi volatile organic compounds eluting in the retention range > C16 (n-hexadecane) to C22 (docosane)
TSVOC according to DIN EN 16516	Sum of all SVOC $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TSVOC with LCI according to AgBB	Sum of all SVOC with LCI $\geq 5 \mu\text{g}/\text{m}^3$ (quantified substance-specific)
TSVOC with LCI according to eco-INSTITUT-Label	Sum of all SVOC with LCI $\geq 1 \mu\text{g}/\text{m}^3$ (quantified substance-specific)
TSVOC without LCI according to AgBB	Sum of all SVOC without LCI $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TSVOC without LCI according to eco-INSTITUT label	Sum of all calibrated SVOC without LCI $\geq 1 \mu\text{g}/\text{m}^3$ (quantified substance-specific) and all non-calibrated SVOC without LCI $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TVOC	Sum of the concentrations of all identified and unidentified volatile organic compounds eluting in the retention range from C6 (n-hexane) to C16 (n-hexadecane)

TVOC according to DIN EN 16516	Sum of all VOC $\geq 5 \mu\text{g}/\text{m}^3$ in the retention range C6 to C16, calculated as toluene equivalent (used i.a. for M1)
TVOC according to AgBB	Sum of all VOCs with LCI $\geq 5 \mu\text{g}/\text{m}^3$ (quantified substance-specific) and all VOCs without LCI $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent) (used i.a. for the Blue Angel)
TVOC according to eco-INSTITUT-Label	Sum of all calibrated VOC $\geq 1 \mu\text{g}/\text{m}^3$ (quantified substance-specific) and all non-calibrated VOC $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TVOC according to ISO 16000-6	Total area of the chromatogram in the retention range C6 – C16 as toluene equivalent according to DIN ISO 16000-6, Annex A.1 item 3 (used i.a. for CDPH, BIFMA and the French VOC regulation)
TVOC without LCI according to AgBB	Sum of all VOCs without LCI $\geq 5 \mu\text{g}/\text{m}^3$ as toluene equivalent
TVOC without LCI according to eco-INSTITUT-Label	Sum of all calibrated VOCs without LCI $\geq 1 \mu\text{g}/\text{m}^3$ (quantified substance-specific) and all non-calibrated VOCs without LCI $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TVVOC	Sum of the concentrations of all identified and unidentified very volatile organic compounds eluting in the retention range < C6 (n-hexane)
TVVOC according to AgBB	Sum of all VVOC with LCI $\geq 5 \mu\text{g}/\text{m}^3$ (quantified substance-specific) and all VVOC without LCI $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
TVVOC according to eco-INSTITUT-Label	Sum of all calibrated VVOC $\geq 1 \mu\text{g}/\text{m}^3$ (substance-specific quantified) and all non-calibrated VVOC $\geq 5 \mu\text{g}/\text{m}^3$ (as toluene equivalent)
VOC (volatile organic compound)	Organic compound eluting in the retention range from C6 (n-hexane) to C16 (n-hexadecane)
VVOC (very volatile organic compound)	Organic compound eluting in the retention range < C6 (n-hexane)

Commentary on emission analysis

Test method

Measurement of the volatile organic compounds takes place in the test chamber in conditions similar to those applying in practice. Standardised test conditions are defined for the test chamber regarding loading, air exchange, relative humidity, temperature, and incoming air, based on the type of test specimen and the required guideline. These conditions and the underlying standards are to be found in the section on test methods in the laboratory report.

Air samples are taken from the test chamber at defined points in time during the continuously running test. To this end, approximately 5 L of air are collected from the test chamber at an air flow rate of 100 mL/min on Tenax and approx. 100 L at an air flow rate of 0.8 L/min on silica gel coated with DNPH (2,4-dinitrophenylhydrazine).

After thermal desorption, the substances adsorbed on Tenax are analysed using gas chromatographic separation and mass spectrometric determination. The gas chromatographic separation is performed with a slightly polar capillary column of 60 m in length.

Over 200 compounds, including volatile organic compounds (C6 - C16), semi-volatile organic compounds (C16 - C22) and – insofar as possible with this method – also very volatile organic compounds (less than C6) are quantified substance-specifically. The limit of quantification is 1 µg per m³ test chamber air. The determined substance concentrations are corrected using the recovery rate of the internal standard (toluene-d8).

All non-calibrated substances – insofar as possible – are identified through comparison with a library of spectra. The quantification of these substances and non-identified substances is performed through a comparison of their signal area with the signal of toluene. Identification and quantification of non-calibrated substances is carried out from a reporting limit of 5 µg/m³.

In the case of highly loaded samples, the reporting limit is raised in some cases, as it is no longer possible to assign individual, small signals due to the large number of signals.

The substances derivatised with DNPH for the determination of formaldehyde and other short-chain carbonyl compounds (C1 – C4) are analysed using high-performance liquid chromatography (HPLC). The limit of quantification for this method is 2 µg/m³.

Quality assurance

The eco-INSTITUT Germany GmbH is granted flexible scope of accreditation pursuant to DIN EN ISO/IEC 17025:2018-03. The accreditation covers the analytical determination of all volatile organic compounds, including the test chamber method.

In each analysis the analytical system is checked using an external standard based on the specifications in standard DIN EN 16516:2020-10. The stability of the analytical systems is documented based on the test standard using control charts.

Laboratory performance is assessed at least once a year in inter-laboratory comparisons by comparing the results with those obtained by other laboratories for identical samples.

A blank is run prior to introducing the test specimen into the test chamber to check for the possible presence of volatile organic compounds.

The expanded measurement uncertainty U for the analytical determination of all volatile organic compounds, including the test chamber method, is estimated to 29 % (k=2). The calculation is based on DIN ISO 11352:2013-03 (Nordtest).

Explanation of Specific Emission Rate SER

Emission measurements are accomplished in test chambers under defined physical conditions (temperature, relative humidity, room loading, air change rate etc.).

Test chamber measurement results are directly comparable only if the investigations were accomplished under the same basic conditions.

If the differences of the physical conditions refer only to the change of air rate and/or the loading, the "SER" or "specific emission rate" can be used for comparability of the measurement results. The SER indicates how many volatile organic compounds (VOC) are released by the sample for each material unit and hour (h).

The SER can be calculated using the formula below for each proven individual component of the VOC from the data in the test report.

As material units the following are applicable:

l = unit of length (m)	relation between emission and length
a = unit area (m ²)	relation between emission and surface
v = unit volume (m ³)	relation between emission and volume
u = piece unit (unit = piece)	relation between emission and complete unit

From this the different dimensions for SER result:

length-specific	SER _l	in µg/(m·h)
surface-specific	SER _a	in µg/(m ² ·h)
volume-specific	SER _v	in µg/(m ³ ·h)
unit-specific	SER _u	in µg/(u·h)

SER thus represents a product specific rate, which describes the mass of the volatile organic compound, which is emitted by the product per time unit at a certain time after beginning of the examination.

$$\text{SER} = q \cdot c$$

- q specific air flow rate (quotient from change of air rate and loading)
c concentration of the measured substance(s)

The result can be indicated in milligrams (mg) in place of micro grams (µg), whereby 1 mg = 1000 µg.

(v5-2026)