



BSI Standards Publication

**Construction products: Assessment of
release of dangerous substances – Methods
for the determination of N-nitrosamines
in air samples derived by EN 16516**

National foreword

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The UK participation in its preparation was entrusted to Technical Committee B/557, Construction products - Assessment of dangerous substances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

**Construction products: Assessment of release of
dangerous substances - Methods for the determination of
N-nitrosamines in air samples derived by EN 16516**

Produits de construction : Évaluation de l'émission de
substances dangereuses - Méthodes de détermination
des N-nitrosamines dans des échantillons d'air
prélevés conformément à l'EN 16516

Bauprodukte: Bewertung der Freisetzung gefährlicher
Stoffe - Verfahren zur Bestimmung von N-
Nitrosaminen in Luftproben, die nach EN 16516
gewonnen wurden

This Technical Specification (CEN/TS) was approved by CEN on 25 September 2023 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (CEN/TS 17985:2023) has been prepared by Technical Committee CEN/TC 351 “Construction products: Assessment of release of dangerous substances”, the secretariat of which is held by NEN.

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This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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Introduction

This document describes a test procedure for the determination of N-nitrosamines in air samples derived by EN 16516:2017+A1:2020 that is able to determine N-nitrosamines at a level of $\leq 0,2 \mu\text{g}/\text{m}^3$.

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1 Scope

This document describes a test procedure for sampling, elution, detection, and quantification of N-nitrosamines in air samples derived from a test chamber according to EN 16516:2017+A1:2020. The following N-nitrosamines are covered:

- N-Nitrosodimethylamine, CAS No. 62-75-9,
- N-Nitrosomethylethylamine, CAS No. 10595-95-6,
- N-Nitrosodiethylamine, CAS No. 55-18-5,
- N-Nitrosodipropylamine, CAS No. 621-64-7,
- N-Nitrosodiisopropylamine, CAS No. 601-77-4,
- N-Nitrosodibutylamine, CAS No. 924-16-3,
- N-Nitrosopiperidine, CAS No. 100-75-4,
- N-Nitrosopyrrolidine, CAS No. 930-55-2 and
- N-Nitrosomorpholine, CAS No. 59-89-2.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 16516:2017+A1:2020, *Construction products: Assessment of release of dangerous substances — Determination of emissions into indoor air*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16516:2017+A1:2020 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

internal standard

compound of known concentration added to a sample to facilitate the qualitative identification and/or quantitative determination of the sample components

[SOURCE: ISO 16000-6:2021, 3.10]