International Standard

ISO 13964

First edition
1998-08-01

AMENDMENT 1
2024-07

Air quality — Determination of ozone in ambient air — Ultraviolet photometric method

AMENDMENT 1: Consensus value for the ozone absorption cross-section at room temperature at the mercury-line wavelength (253,65 nm air)

Qualité de l'air — Dosage de l'ozone dans l'air ambiant — Méthode photométrique dans l'ultraviolet

AMENDEMENT 1: Valeur consensuelle pour la section efficace d'absorption de l'ozone à température ambiante pour la raie du mercure de longueur d'onde (253,65 nm, air)

Reference number
ISO 13964:1998/Amd.1:2024(en)

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee 146, *Air quality*, Subcommittee SC 3, *Ambient atmospheres*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Air quality — Determination of ozone in ambient air — Ultraviolet photometric method

AMENDMENT 1: Consensus value for the ozone absorption cross-section at room temperature at the mercury-line wavelength (253,65 nm air)

WARNING before Scope

Change "back-pressure" to "backpressure".

Clause 1

Change the reference pressure value from "101,25" to "101,325".

Clause 3

In paragraphs 1 and 2, change the wavelength of mercury line value from "253,7" to "253,65".

In Formula (1), change "253,7" to "253,65", "1,44" to "1,421 4" and "see [3]" to "see References [3] and [16]".

In Formula (2), change both occurrences of "101,25" to "101,325".

5.1

In b), change "253,7" to "253,65".

In c), change both occurrences of "253,7" to "253,65".

5.2

In a), change both occurrences of "253,7" to "253,65".

7.1

In Formula (3), change "253,7" to "253,65" and "1,44" to "1,421 4".

7.2

Change "101,3" to "101,325".

Bibliography

Replace Reference [3] with:

[3] Hodges J.T., Viallon J., Brewer P.J., Drouin B.J., Gorshelev V., Janssen C., Lee S., Possolo A., Smith M.A.H., Walden J., and Wielgosz R.I, *Recommendation of a consensus value of the ozone absorption cross-section at 253.65 nm based on a literature review*, 2019 *Metrologia* 56(3) 034001 12pp

Add the following reference after Reference [15]:

[16] Davis R.S., Niederhauser B., Hodges J.T., Viallon J., Wielgosz R.I., *Units and values for the ozone absorption cross-section at 253.65 nm (air) with appropriate significant digits and rounding for use in documentary standards*, 2022 Rapport BIPM-2022/02 16pp