



**BSR/ASHRAE Addendums
to ANSI/ASHRAE Standard 62.1-2022**

Public Review Draft

Proposed Addendums to Standard 62.1-2022, Ventilation and Acceptable Indoor Air Quality

**First Public Review (March 2025)
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

© 2025 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway, Peachtree Corners, Georgia 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: standards.section@ashrae.org.

ASHRAE, 180 Technology Parkway, Peachtree Corners, Georgia 30092

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This proposed addendum expands the available testing methods for acetaldehyde and acetone by allowing these compounds to be tested using TO-17, this update achieves benefits such as:

- *Expanded Testing Possibilities – More laboratories will have the capability to test for acetaldehyde and acetone.*
- *Greater Laboratory Availability – Since TO-17 is widely used, more labs can offer this testing, reducing logistical challenges.*
- *Improved Cost Efficiency – TO-17 provides a more economical alternative compared to TO-11 method, making air quality assessments more affordable.*

Also, this proposed addendum updates EPA TO-11 to TO-11A to reflect the latest revision of the method. TO-11A provides improved analytical accuracy and updated quality control procedures.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum s to 62.1-2022

Change Table 7-1 as shown below (see Addendum i to Standard 62.1-2022). Published addenda are available for free download on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda>.

Table 7-1 Allowed Laboratory Test Methods

Compound	Allowed Test Methods
VOCs except formaldehyde, acetaldehyde and acetone	ISO 16000-6; EPA IP-1, EPA TO-17; ISO 16017-1; ISO 16017-2; ASTM D6345-10
Formaldehyde	ISO 16000-3; EPA TO-11 <u>A</u> ; EPA IP-6; ASTM D5197 or testing method that is compliant with the California Air Resources Board’s (CARB) § 93120
Acetaldehyde and acetone	ISO 16000-3; EPA TO-11 <u>A</u> ; EPA IP-6; ASTM D5197, <u>EPA TO-17</u>
Carbon monoxide	ISO 4224; EPA IP-3

Update Section 9 Normative References as shown below. The remainder of Section 9 is unchanged.

United States Environmental Protection Agency (EPA)
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460, United States
1-919-541-0800; www.epa.gov
ENERGY STAR® 1-888-782-7937
WaterSense 1-866-987-7367 and 1-202-564-2660

...

EPA TO-11A (1999) Determination of Formaldehyde in Ambient Air Using Adsorbent Cartridge Followed by High Performance Liquid Chromatography (HPLC) [Active Sampling Methodology] in Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air (Second Edition)
Section Table 7-1

...