



ADDENDA

**ANSI/ASHRAE Addendum b to
ANSI/ASHRAE Standard 34-2024**

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on April 30, 2025.

This addendum was approved by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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ISSN 1041-2336



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Cognizant TC: 3.1, Refrigerants and Secondary Coolants

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FOREWORD

Addendum b adds the zeotropic refrigerant blend R-496A to Tables 4-2 and D-2.

Informative Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum b to Standard 34-2024

Modify Tables 4-2 and D-2 as shown.

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 496A
Composition (Mass %) = R-14/23/116 (18.0/37.8/44.2)
Composition Tolerances = (±1.0/±1.0/±1.0)
OEL = 1000 ppm v/v
Safety Group = A1
RCL = 60,000 ppm/14 lb/1000 ft³/230 g/m³
Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 496A
Composition (Mass %) = R-14/23/116 (18.0/37.8/44.2)
Average Relative Molar Mass = 93.9 g/mol
Bubble Point (°F) = -170°F
Dew Point (°F) = -131°F
Bubble Point (°C) = -112°C
Dew Point (°C) = -90.6°C

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

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As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

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