



ADDENDA

ANSI/ASHRAE Addendum I to ANSI/ASHRAE Standard 34-2024

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on June 30, 2026.

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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FOREWORD

Addendum I adds the zeotropic refrigerant blend R-4104A 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 I 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 = R-4104A

Composition (Mass %) = R-1132a/1311 (5.4/94.6)

Composition Tolerances = (±0.5/±0.5)

OEL = 500 ppm

Safety Group = A2L

RCL = 2300 ppm / 1.0 lb/1000 ft³ / 17 g/m³

LFL = 95,000 ppm / 23.5 lb/1000 ft³ / 370 g/m³

BV = 5.7 cm/sec

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = R-4104A

Composition (Mass %) = R-1132a/1311 (5.4/94.6)

Average Relative Molar Mass = 176.3 g/mol

Bubble Point (°F) = -65.1 °F

Dew Point (°F) = -14.1 °F

Bubble Point (°C) = -54.0 °C

Dew Point (°C) = -25.6 °C

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

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