

ADDENDA

ANSI/ASHRAE Addendum af to ANSI/ASHRAE Standard 34-2019

Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on July 29, 2022.

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 (https://www.ashrae.org/continuous-maintenance).

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FOREWORD

Addendum af adds the zeotropic refrigerant blend R-457C to Tables 4-2 and D-2.

Note: In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and <u>strikethrough</u> (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum af to Standard 34-2019

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

Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 457C

Composition (Mass %) = R-32/1234yf/152a (7.5/78.0/14.5)

Composition tolerances = $\pm 0.5, -1.5/\pm 1.0, -1.0/\pm 0.5, -1.5$

 $OEL = \underline{610} \text{ ppm v/v}$

Safety Group = $\underline{A2L}$

RCL = $\frac{13.800}{13.800}$ ppm v/v; $\frac{3.4}{10}$ lb/Mcf; $\frac{54}{10}$ g/m³

LFL = $\frac{55,000}{55,000}$ ppm v/v; $\frac{13.6}{15}$ lb/Mcf; $\frac{215}{215}$ g/m³

Highly Toxic or Toxic Under Code Classification = Neither

Table D-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 457C

Composition (Mass %) = R-32/1234yf/152a (7.5/78.0/14.5)

Average Relative Molar Mass = 95.4 g/mol

Bubble Point (°F) = -35.1

Dew Point (°F) = -25.7

Bubble Point (°C) = -37.3

Dew Point (°C) = $\underline{-32.1}$

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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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