



# ADDENDA

**ANSI/ASHRAE Addendum I to  
ANSI/ASHRAE Standard 34-2019**

# Designation and Safety Classification of Refrigerants

Approved by ASHRAE and the American National Standards Institute on September 30, 2020.

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## FOREWORD

*Addendum I adds the zeotropic refrigerant blend R-457B to Tables 4-2 and D-2.*

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

### Addendum I 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 = 457B

Composition (Mass %) = R-32/1234yf/152a (35.0/55.0/10.0)

Composition tolerances = +0.5, -1.5/+0.5, -1.5/+0.1, -1.9

OEL = 730 ppm v/v

Safety Group = A2L

RCL = 19,000 ppm v/v; 3.7 lb/Mcf; 59 g/m<sup>3</sup>

LFL = 76,000 ppm v/v; 14.9 lb/Mcf; 239 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 457B

Composition (Mass %) = R-32/1234yf/152a (35.0/55.0/10.0)

Average Relative Molar Mass = 76.5 g/mol

Bubble Point (°F) = -51.5

Dew Point (°F) = -40.7

Bubble Point (°C) = -46.4

Dew Point (°C) = -40.4

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ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

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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