

ADDENDA

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

Designation and Safety Classification of Refrigerants

Approved by the ASHRAE Standards Committee on June 22, 2019; by the ASHRAE Board of Directors on June 26, 2019; and by the American National Standards Institute on July 24, 2019.

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^{*}Denotes members of voting status when the document was approved for publication

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FOREWORD

Addendum t adds single-component refrigerant R-1311 to Tables 4-1, D-1, and E-1.

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 t to Standard 34-2019

Add the following data to Tables 4-1, and D-1, and E-1 in the columns indicated.

Table 4-1 Refrigerant Data and Safety Classifications

Refrigerant Number = R-13I1

Chemical Name = trifluoroiodomethane

Chemical Formula = CF3I

OEL = 500 ppm v/v

Safety Group = $\underline{A1}$

 $RCL = 2000 \text{ ppm v/v}; 1.0 \text{ lb/Mcf}; 16 \text{ g/m}^3$

Highly Toxic or Toxic Under Code Classification = Neither

Table D-1 Refrigerant Data

Refrigerant Number = R-13I1

Chemical Name = trifluoroiodomethane

Chemical Formula = $\underline{CF3I}$

Relative Molar Mass = $\underline{195.9}$ g/mol

Normal Boiling Point (°F) = -7.4

Normal Boiling Point (°C)=-21.9

Table E-1 Toxicity Table for Standard 34

Refrigerant $R_{-} = 13I1$

Chemical Name = $\underline{\text{trifluoroiodomethane}}$

 $LC_{50} = 128,000$

Cardiac Sensitization LOEL = ND

Cardiac Sensitization NOEL = $\underline{2000}$

Anesthesia $EC_{50} = ND$

Anesthesia LOEL = \underline{ND}

Anesthesia NOEL = 10,000

Other = \underline{ND}

ATEL = 2000

ODL = 140,000

FCL = ND

RCL = 2000

LFL = ND

ATEL Source = Cardiac Sensitization

RCL Source = \underline{ATEL}

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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.

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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