

**ERRATA SHEET FOR ANSI/ASHRAE STANDARD 34-2019  
Designation and Safety Classification of Refrigerants**

**March 1, 2021**

The corrections listed in this errata sheet apply to ANSI/ASHRAE Standard 34-2019. The first printing is identified on the outside back cover as “Product code: 86015 5/19”.

**Page   Erratum**

- 43   F2. Heat of Combustion for a Refrigerant Blend.** In Equation F-7 relocate the floating minus sign “-” so that it precedes “[2(0.2311) + 3(0.7689)] [-393.51]” as shown in the corrected equation below.

$$\begin{aligned}
 \Delta h_{combustion} &= \\
 \sum \Delta h_f(\text{reactants}) - \sum \Delta h_f(\text{products}) &= \\
 \{ \Delta h_f(C_{2x+3y}H_{x+8y}F_{5x}) + (x+5y)\Delta h_f(O_2) \} \\
 - \{ (2x+3y)\Delta h_f(CO_2) + (5x)\Delta h_f(HF) \\
 + [(x+8y-5x)/2]\Delta h_f(H_2O) \} &= \quad (F-7) \\
 - 335.77 + [0.2311 + 5(0.7689)][O] \\
 - \{ [2(0.2311) + 3(0.7689)][-393.51] \\
 + [5(0.2311)][-273.30] \\
 + [0.5] [0.2311 + 8(0.7689)] \\
 - 5(0.2311)[-241.83] \} \\
 &= 1701.6 \text{ kJ/mol}
 \end{aligned}$$