

# ISO 817 Standard

## ISO 817:2014 Refrigerants – Designation and safety classification

ISO 817:2014 is the third edition of ISO 817 which includes safety classifications in Standard 34- 2004. The first edition was published in 1974. This standard is under the development by ISO/TC 86/SC 8. United States, United Kingdom, Japan, Italy, Germany, France, and Belgium are the countries participated on working to develop the third edition of ISO/817. ISO 817 is the international equivalent of ASHRAE 34. [1]

### **Abstract**

ISO 817:2014 provides an unambiguous system for assigning designations to refrigerants. It also establishes a system for assigning a safety classification to refrigerants based on toxicity and flammability data, and provides a means of determining the refrigerant concentration limit.[2]

### **Introduction**

This third edition has been technically revised by the addition of new refrigerant designations and a safety classification system based on toxicity and flammability data.

The safety classifications in this International Standard do not consider decomposition products or by-products of combustion. Product and system safety standards (e.g. ISO 5149, IEC 60335-2-24, IEC 60335-2-34, IEC 60335-2-40 and IEC 60335-2-89) address the prevention of ignition of refrigerant based on the characteristics provided in this International Standard.[2]