



## Chloroform Applications

**Fluorocarbon Grade:** This grade is used as a precursor for hydrochlorofluorocarbon-22 (HCFC-22). HCFC-22 is used primarily as a precursor to the fluoropolymer polytetrafluoroethylene (PTFE). Prior to the Montreal Protocol, HCFC-22 was also a popular refrigerant. The EPA prohibited the manufacture of new HCFC-22 appliances, effective January 1, 2010. The EPA implemented a 10-year phase-out period which provided allowances to HCFC-22 manufacturers to continue producing HCFC-22 as a refrigerant for servicing appliances manufactured prior to 2010. These allowances expired January 1, 2020.

**Alcohol Stabilized Grade:** This grade is mainly used as a solvent in the extraction and purification of products in the pharmaceutical industry that are not considered to be food related. It is also used in the purification of some antibiotics, alkaloids, and vitamins. A small percentage is also sold as a laboratory reagent solvent for use as a reaction medium in the preparation of organic nitrogen compounds, acids, aromatic hydrocarbons, ketones, ethers, and other fine chemicals. The Alcohol Stabilized Grade is the former NF Grade, which meets the test requirements for the *National Formulary XVII* (1990) and also the test requirements for General Use Chloroform according to *ACS Specifications for Reagent Chemicals*, Online Edition. The manufacturing process for Alcohol Stabilized Chloroform does not incorporate all of the measures specified in the Food and Drug Administration's current Good Manufacturing Practices (cGMP). It is the

responsibility of the user to assess their use of Alcohol Stabilized Chloroform products in food, feed, or pharmaceutical related applications and to determine whether appropriate regulatory requirements are being met.

**Technical Grade:** This grade is sold, in large part, into general distribution where it is used as a chemical intermediate in the preparation of dyes, plastics, resins and pesticides. It can also be involved as an industrial solvent in photography and as a heat transfer medium in fire extinguishers. This grade meets the requirements of Federal Specification O-C-291B (canceled June 22, 2000) and for General Use Chloroform in *ACS Specifications for Reagent Chemicals*, Online Edition.

### **Additional Resources:**

[eCFR :: 40 CFR 82.16 -- Phaseout schedule of class II controlled substances.](#)

### **Further Information**

More detailed information on chlorinated solvent regulatory issues is available upon request through the OxyChem Technical Service Department. Call or write to:

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