

Technical Information

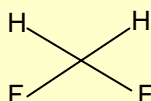
Difluoromethane (HFC-32)

Refrigerant and Electronic Gas Intermediate

HFC-32 is a low molecular weight fluorinated methane. Due to high latent heat absorption and other physical characteristics, HFC-32 is often used as a blend with other refrigerants to replace ozone-depleting refrigerants such as HCFC-22. Electronic grade HFC-32 is a very good solvent of low viscosity that is used in plasma etching.

Chemical Name: (difluoromethane)

CAS Reg. Number: [75-10-5]



Typical Properties

Appearance	Liquefied Pressurized Gas
Molecular Weight	52
Density @ 20 °C g/cm ³	1.1
Boiling Point °C	-51.6
Moisture, PPM	10 max.

Vapor Pressure

20 °C	200 psia
50 °C	456 psia

This product is packaged in various sizes of carbon steel and stainless pressurized cylinders for different applications.

The physical, thermodynamic, heat-transfer and cleaning properties of hydrofluorocarbons make them ideal for a wide range of applications including refrigeration and electronic grade gas. HFC-32 is used as an azeotropic blend with other HFCs to create very useful refrigerants with no ozone depletion. The unique hydrogen-to-fluorine ratio of electronic grade HFC-32 enables it to be used in several semiconductor manufacturing processes.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. This product is flammable and DOT regulations should be followed for storage and transportation.

This product is approved by U.S., Australia, Philippines, EU and Japanese regulatory agencies for its production and use as an industrial intermediate. For additional handling and toxicological information, please consult the company's Material Safety Data Sheet or the regulatory department of Great Lake Chemical Corporation

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