



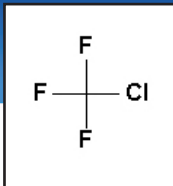
# R-13 Chlorotrifluoromethane

Also known as: Monochlorotrifluoromethane, CFC-13, Freon 13, Genetron 13, Forane 13

Freon is a registered trade name for E. I. DuPont. Genetron is a registered trade name for Allied Signal Corporation. Forane is a registered trade name for Elf Atochem

[www.refrigerantsupply.com](http://www.refrigerantsupply.com)

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## General Information

Chemical Formula	CAS Registry #	Color & Odor	Refrigerant Applications
CClF <sub>3</sub>	75-72-9	Colorless liquid with slight ether like odor	Very low temperature refrigeration

## Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
104.46	-81.3	-114.3	29.2	84.6	3.92	569

## Toxicity & Global Warming Data

TLV-TWA	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
1,000	640	1.000	10,000

## Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Pressurized cylinders	5, 9, 23, 80	Light Sky Blue

## Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
Chlorotrifluoromethane	2.2	UN1022		nonflammable gas

## ARI 700 Reclaim Standards

Isomer Content by weight	Air and other non-condensables % by volume @ 25°C	Water in ppm by weight	All other impurities including refrigerants as % by weight	Oil and other high boiling residues as % by volume	Particulates/solids visually clean to pass	Acidity as ppm by weight	Chloride (pass/fail is 3 ppm)
none	1.5	10	0.50	0.05	pass	1.0	pass

## Alternative Refrigerant Option for R-13 Chillers

(Alternative will require retrofit and maybe new equipment)

Alternative	Composition	Manufacturers	Trade Names
HFC-23	N/A	DuPont	SUVA 23
R-508	HFC-23	DuPont	SUVA-95
	R-116 (C2F6)	ICI Americas	KLEA 508

SUVA is a registered trade name for E. I. DuPont  
KLEA is a registered trade name for ICI Americas

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