



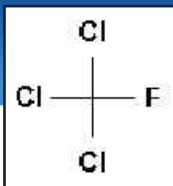
# R-11 Trichlorofluoromethane

Also known as: CFC-11, Freon 11, Genetron 11, Forane 11

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
CCl3F	75-69-4	Colorless liquid with ether like odor	Centrifugal Chillers

## Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
137.37	23.7	74.7	198.0	388.4	4.41	640

## Toxicity & Global Warming Data

TLV-TWA	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
C 1000	45	1.000	4600

## Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Metal Drums	100, 200, 650, 1,100, 2,200	Orange

## Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
Non Hazardous, Non Regulated	N/A	N/A	N/A	N/A

## 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	N/A	20	0.50	0.01	pass	1.0	pass

## Alternative Refrigerant Option for R-11 Chillers (Alternative will require retrofit and maybe new equipment)

Alternative	Manufacturers	Associated Trade Names
HCFC-123	DuPont	SUVA-123
	Allied Signal	Genetron 123
	Elf Atochem	Forane 123
	Others	R-123

SUVA 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

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