



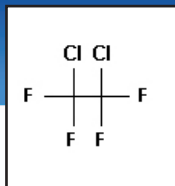
# R-114 Dichlorotetrafluoroethane

Also known as: 1,2-dichlorotetrafluoroethane, CFC-114, Freon 114, Genetron 114, Forane 114

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>2</sub> CClF <sub>2</sub>	76-14-2	Colorless Pressurized liquid with slight ether like odor	Industrial Process Cooling Centrifugal chillers

## Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
170.92	3.6	38.5	145.7	294.3	3.26	473

## Toxicity & Global Warming Data

TLV-TWA	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
1,000	300	0.850	9800

## Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Pressurized cylinders	30, 150, 875,	Dark Blue (Navy)

## Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
Dichlorotetrafluoroethane	2.2	UN1958		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)
0-30% R-114a	1.5	10	0.50	0.01	pass	1.0	pass

## Alternative Refrigerant Option for R-114 Chillers

(Alternative will require retrofit and maybe new equipment)

Alternative	Manufacturers	Trade Names
HCFC-124	Dupont	SUVA-124
	Elf Atochem	Forane 124
HFC-236fa	DuPont	SUVA-236fa
	3M	R-236fa

SUVA is a registered trade name for E. I. DuPont  
Forane is a registered trade name for Elf Atochem

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