



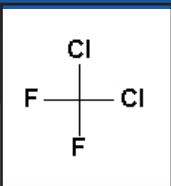
# R-12 Dichlorodifluoromethane

Also known as: CFC-12, Freon 12, Genetron 12, Forane 12

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

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## General Information

Chemical Formula	CAS Registry #	Color & Odor	Refrigerant Applications
CCl <sub>2</sub> F <sub>2</sub>	75-71-8	Colorless liquefied gas with slight ethereal odor	Auto air conditioning, medium and high temperature refrigeration

## Physical Data

Molecular Mass	Boiling Point C°	Boiling Point F°	Critical Temperature C°	Critical Temperature F°	Critical Pressure MPa	Critical Pressure psia
120.91	-29.8	-21.6	112.0	233.6	4.41	600

## Toxicity & Global Warming Data

TLV-TWA in ppm	Years of Atmospheric Lifetime	Ozone Depletion Potential	Global Warming Potential
1000	100	0.820	10680

## Packaging Information

Packaged in	Volumes available in pounds	Color of Container
Pressurized Cylinders	30, 50, 145, 1,000, 2,000	White

## Shipping Information

DOT Shipping Name	Hazard Class	UN/NA Number	Packing Group	Labels Required
Dichlorodifluoromethane	2.2	UN1028		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	0.01	pass	1.0	pass

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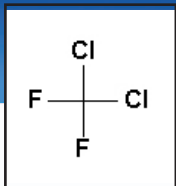
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## Alternative Refrigerant Options for R-12 Non-Automotive Applications

(Alternative will require retrofit and maybe new equipment)  
(These alternatives may or may not be officially approved by the various governmental agencies)

Alternative	Composition	Manufacturers	Trade Names
HFC-134a	N/A	Dupont Allied Signal Elf Atochem ICI Americas Others	SUVA -134a Genetron 134a Forane 134a KLEA 134a R-134a
R-401a	HCFC-22 - 53% HFC-152A - 13% HCFC-124 - 34%	DuPont	SUVA MP-39
R-401b	HCFC-22 - 61% HFC-152A - 11% HCFC-124 - 28%	DuPont	SUVA MP-66
R-406a	HCFC-22 - 55% HCFC-142B - 41% Isobutane - 4%	Monroe Air Tech	GHG, McCool
HCFC Blend Lambda	HCFC-22 HCFC-142B Isobutane	Monroe Air Tech	GHG-HP
R-409a	HCFC-22 - 60% HCFC-124 - 25% HCFC-142B - 15%	Elf Atochem	FX-56
HCFC Blend Delta	HFC-134a HCFC-142b Proprietary Lubricant Additive	Cool EZ	RB-276
FR-12	HFC-134a HCFC-124 R-600 (Butane)	Intermagnetics	FRIGC FR-12

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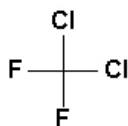
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HCFC Blend Alpha	HCFC-22 HCFC-142b	Unknown	Unknown
R-405a	HCFC-22 - 45% HFC-152a - 7% HCFC-142b - 5.5% Cycloperfluorobutane - 42.5%	GU/Greencool	G2015
Hydrocarbon Blend A	R-209 (propane) R-600 (butane)	OZ Technologies	OZ-12
Hydrocarbon Blend B	Hydrocarbons	OZ Technologies	HC-12a

## R-12 Alternatives for Automotive Applications

Alternative	Composition	Manufacturers	Trade Names
HFC-134a	N/A	DuPont Allied Signal Elf Atochem ICI Americas Others	SUVA -134a Genetron 134a Forane 134a KLEA 134a R-134a
R-406a	HCFC-22 - 55% HCFC-142B - 41% Isobutane - 4%	Monroe Air Tech	GHG, McCool
FR-12	HFC-134a HCFC-124 R-600 (Butane)	Intermagetics	FRIGC FR-12
R-406a	HCFC-22 - 55% HCFC-142B - 41% Isobutane - 4%	Monroe Air Tech	GHG, McCool
HCFC Blend Lambda	HCFC-22 HCFC-142B Isobutane	Monroe Air Tech	GHG-HP

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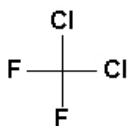
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HCFC Blend Delta	HFC-134a HCFC-142b Proprietary Lubricant Additive	Cool EZ	RB-276
Hydrocarbon Blend A	R-209 (propane) R-600 (butane)	OZ Technologies	OZ-12
Hydrocarbon Blend B	Hydrocarbons	OZ Technologies	HC-12a
R-401C	HCFC-22 - 33% HCFC-152a - 15% HCFC-124 - 52%	DuPont	SUVA MP-52
HCFC Blend Omicron	HCFC-142b HCFC-124 Isobutane	Icor	Hot Shot, Car Kool
Blend Zeta	HFC-152a CF3I	Ikon Corp.	Ikon 12C
ADAK-12	Proprietary	TACIP International	ADAK-12

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