HFCs and PFCs - Chemical Names, Trade Names, and Blends

Common Name	Chemical Name, Trade Names, Blends		Applications	CAS number
Hydrofluorocarbons (HFCs)				
HFC-23	trifluoromethane	Suva 95	low temperature refrigerant, fire extinguishant, plasma etchant, semi-conductor manufacturing cleaning agent	75-46-7
	fluoroform	Genetron 503		
	R-23	Genetron 23		
	Freon 23	Klea 23		
	FE-13	Klea 508		
	FE-36	Klea 5R3		
	Forane FX 220	NARM 503		
HFC-32	difluoromethane	R-407C	component in refrigerant blends	75-10-5
	methylene fluoride	Klea 407A		
	R-32	Klea 407B		
	R-410A	Klea 407C		
	R-407C	Klea 407D		
	Freon 32	Klea 410A		
	Forane 410A (AZ-20)	Klea 32		
	Forane FX 40	Genetron 407C		
	Forane FX 220	AZ-20		
	Forane 407C	EcoloAce 407c		
	Forane 32	HX4		
	Asahiklin SA-39	Solkane 407C		
	Asahiklin SA-45	Solkane 410		
	Meforex 98	Suva 9000		
	Meforex 32	Suva 9100		
	R-410A			
HFC-41	methyl fluoride	R-41		593-53-3
	fluoromethane			
HFC-43-10mee	decafluoropentane		cleaning solvent	138495-42-8
HFC-125	ethane	Forane 507	component in refrigerant blends, fire extinguishant	354-33-6
	pentafluoro	Forane FX10		
	pentafluoroethane	Forane FX40		
	R-125	Forane FX70		
	FC-125	Suva 125		
	Freon 125	Suva 9000		
	FE-25	Suva 9100		
	Arcton 402A	Suva HP62		
	Arcton 402B	Suva HP80		
	Arcton 408A	Suva HP81		
	Klea 404A	Cooltop R-134a Replace		
	Klea 407A	EcoloAce 404a		

Common Name	Chemical Name, Trade Names, Blends		Applications	CAS number
	Klea 407B	Di 44		
	Klea 407C	Meforex 125		
	Klea 407D	Meforex 55		
	Klea 410A	Meforex 57		
	Klea 507A	Meforex 98		
	Asahiklin SA-28	ISCEON 29		
	Asahiklin SA-39	ISCEON 404A		
HFC-125 (continued)	Asahiklin SA-45	ISCEON 507	component in refrigerant blends, fire extinguishant	354-33-6
	AZ-20	ISCEON 59		
	AZ-50	ISCEON 79		
	Genetron 404A	ISCEON 89		
	Genetron 125	RX3		
	Genetron 407C	NAF P IV		
	Genetron 408A	NAF S 125		
	Genetron HP80	R-404A		
	Genetron HP81	Solkane 404A		
	Forane 125	Solkane 507		
	Forane 404A	Reclin 507		
	Forane 407C	HX4		
	Forane 410A (AZ-20)	R404a		
HFC-134	R-134	tetrafluoroethane		359-35-3
HFC-134a	tetrafluoroethane	Genetron 404A	residential refrigerant, component of refrigerant blends, foaming agent PS foams, fire extinguishant, medical propellants, aerosol propellants	811-97-2
	norflurane	Genetron 134a		
	R-134a	Genetron 407C		
	FC-134a	HX4		
	Freon 134a	Solkane 134a (F)		
	Asahiklin AK-134a	Solkane 134a (R)		
	Asahiklin SA-39	Solkane XG87		
	Asahiklin SA-45	HFC-134a		
	Cooltop R-134a Replacement	ISCEON 134a		
	Di 24	ISCEON 29		
	Meforex 134a	ISCEON 39TC		
	Meforex 55	ISCEON 404A		
	Dymel 134a	ISCEON 49		
	Formacel Z4	ISCEON 59		
	Ecolo Ace 134a	ISCEON 79		
	Ecolo Ace 404a	Johnsens Freeze 12		
	Ecolo Ace 407c	Klea 134a		
	Floron 134a	Klea 404A		
	Forane 134a	Klea 407A		
	Forane 404A	Klea 407B		

Common Name	Chemical Name, Trade Names, Blends		Applications	CAS number
	Forane 407C	Klea 407C		
	Forane FX 220	Klea 407D		
	Forane FX 70	NAF P III		
	Free Zone	Solpower SP34E		
	Free Zone RB-276	R404a		
	Freezone	Suva 134a		
	FRIGC	Suva 9000		
	FRIGC FR-12	Suva HP62		
	FRIGC FR-12			
HFC-143	R-143	trifluoroethane		430-66-0
HFC-143a	R-143a	Forane 404A	component in refrigerant blends	420-46-2
	trifluoroethane	Forane 507		
	Freon 143a	Forane FX 10		
	Arcton 408A	Forane FX 20		
	Asahiklin SA-28	Forane FX 40		
	Asahiklin SA-45	Forane FX 70		
	AZ-50	HX4		
	Genetron 404A	Reclin 507		
	Genetron 408A	Solkane 507		
	Di 44	ISCEON 404A		
	Meforex 143a	ISCEON 507		
	Meforex 55	Klea 404A		
	Meforex 57	Klea 507A		
	EcoloAce 404a	R404a		
	Suva HP62			
HFC-152	difluoroethane	R-152		624-72-6
HFC-152a	difluoroethane	Solkane 152a	component in refrigerant blends, foaming agent for PS foams, aerosol propellent, temperature sensing agent	75-37-6
	ethylidene difluoride	Solkane XG87		
	R-152a	Genetron 152a		
	FC-152a	Genetron 500		
	Freon 152a	Genetron MP 39		
	Asahifron R-152a	Genetron MP 66		
	Asahifron R-500	Genetron 500		
	Cooltop R-134a Replacement	ISCEON 500		
	Daiflon 500	NARM-502		
	Dymel 152a	R415a		
	Formacel Z2	Suva MP39		
	Flon Showa 500	Suva MP52		
	Forane 500	Suva MP66		
	Frigen 500			
HFC-161	ethyl fluoride	R-161		353-36-6

Common Name	Chemical Name, Trade Names, Blends		Applications	CAS number
	fluoroethane			
HFC-227ea	heptafluoropropane	FE-227	refrigerant, fire extinguishant, medical propellant	431-89-0
	R-227ea	FM-200		
HFC-236cb	R-236cb	hexafluoropropane		677-56-5
HFC-236ea	hexafluoropropane	R-236ea		431-63-0
HFC-236fa	hexafluoropropane	FC-236fa	refrigerant, fire extinguishant, foaming agent, medical propellant	690-39-1
	R-236fa	FE-36		
HFC-245ca	R-245a	pentafluoropropane	possible future refrigerant	679-86-7
HFC-245fa	R-245a	pentafluoropropane	foaming agent for PU foams, possible future refrigerant	460-73-1
HFC-365mfc	pentafluorobutane	R-365mfc	foaming agent for PU and phenolic foams, possible future refrigerant	406-58-6
Perfluorinated Compounds (PFCs)				
PFC-14	tetrafluoromethane	carbon tetrafluoride	plasma etchant, semi-conductor manufacturing cleaning agent, low temperature refrigerant	75-73-0
	perfluoromethane	R-14		
PFC-116	hexafluoroethane	Freon 116	plasma etchant, semi-conductor manufacturing cleaning agent	76-16-4
	perfluoroethane	Klea 508		
	R-116	Suva 95		
	CF-116			
PFC-218	octafluoropropane	Arcton TP5R	plasma etchant, semi-conductor manufacturing cleaning agent, low temperature refrigerant, fire extinguishant	76-19-7
	perfluoropropane	Arcton TP5R2		
	R-218	ISCEON 49		
	FC-218	ISCEON 69-L		
	Freon 218	ISCEON 69S		
	CEA-308	RX3		
	Arcton 412A	ISCEON 89		
	Arcton 509	Meforex 218		
PFC-3-1-10	decafluorobutane	R-31-10	refrigerant, fire extinguishant	355-25-9
	perfluorobutane	CEA-410		
	perfluoro-n-butane	PFC-410		
PFC-318 or PFC-c318	perfluorocyclobutane	RC-318	plasma etchant, cleaning agent, dielectic, refrigerant, media of polymerization of fluorine- contained polymers, propellant in food industry	115-25-3
	octofluorocyclobutane	Freon 318		
	R-c318			
PFC-4-1-12	dodecafluorpentane	R-41-12	refrigerant, precision cleaning solvent	678-26-2
	perfluoropentane			
PFC-5-1-14	tetradecane fluorohexane	R-51-14	refrigerant, precision cleaning solvent, fire extinguishant	355-42-0
	perfluorohexane	CEA-614		
Other High GWP Greenhouse Gases				

Common Name	Chemical Name, Trade Names, Blends		Applications	CAS number
NF_3	trifluoramine	nitrogen trifluoride	plasma etchant, semiconductor manufacturing cleaning agent	7783-54-2
	nitrogen fluoride			
SF_6	sulfur hexafluoride	R-7164	dielectic and insulating gas in electric power equipment; inert filling for double-pane windows; magnesium casting, fire extinguishant	2551-62-4