

မွန်ထရီယယ်နောက်ဆက်တွဲစာချုပ်အရ ထိန်းချုပ်ကန့်သတ်ထားသော အိုဇုန်းလွှာပျက်စီးစေသော ခြိပ်ပစ္စည်းများစာရင်း (Ozone Depleting Substances)

Annex	Group	Chemical Formula	Substance (Refrigerant Type)	Chemical name	ODP (Ozone Depleting Potential)	GWP (100-Year Global Warming Potential)	Remark
A	Group I	CFCl ₃	(CFC-11)	Trichlorofluoromethane	1.0	4 750	၂၀၁၀ ခုနှစ် မှစ၍ အပြီးသတ် ရုပ်ဆိုင်းပြီး ဖြစ်သည်။
		CF ₂ Cl ₂	(CFC-12)	Dichlorodifluoromethane	1.0	10 900	
		C ₂ F ₃ Cl ₃	(CFC-113)	1,1,1-trichlorotrifluoroethane	0.8	6 130	
		C ₂ F ₄ Cl ₂	(CFC-114)	Dichlorotetrafluoroethane	1.0	10 000	
		C ₂ F ₅ Cl	(CFC-115)	Monochloropentafluoroethane	0.6	7 370	
	Group II	CF ₂ BrCl	(halon-1211)	Bromochlorodifluoromethane	3.0		
		CF ₃ Br	(halon-1301)	Bromotrifluoromethane	10.0		
		C ₂ F ₄ Br ₂	(halon-2402)	Dibromotetrafluoroethane	6.0		
B	Group I	CF ₃ Cl	(CFC-13)	Chlorotrifluoromethane	1.0		၂၀၁၀ ခုနှစ် မှစ၍ အပြီး သတ် ရုပ်ဆိုင်းပြီး ဖြစ်သည်။
		C ₂ FCl ₅	(CFC-111)	Pentachlorofluoroethane	1.0		
		C ₂ F ₂ Cl ₄	(CFC-112)	Tetrachlorodifluoroethane	1.0		
		C ₃ FCl ₇	(CFC-211)	Heptachlorofluoropropane	1.0		
		C ₃ F ₂ Cl ₆	(CFC-212)	Hexachlorodifluoropropane	1.0		
		C ₃ F ₃ Cl ₅	(CFC-213)	Pentachlorotrifluoropropane	1.0		
		C ₃ F ₄ Cl ₄	(CFC-214)	Tetrachlorotetrafluoropropane	1.0		
		C ₃ F ₅ Cl ₃	(CFC-215)	Trichloropentafluoropropane	1.0		
		C ₃ F ₆ Cl ₂	(CFC-216)	Dichlorohexafluoropropane	1.0		
		C ₃ F ₇ Cl	(CFC-217)	Chloroheptafluoropropane	1.0		
	Group II	CCl ₄	(CFC-13)	Carbon tetrachloride	1.1		
	Group III	C ₂ H ₃ Cl ₃	(C ₂ H ₃ Cl ₃)	1,1,1-trichloroethane* (methyl chloroform)	0.1		

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C	Group I	CHFCl ₂	(HCFC-21)	Dichlorofluoromethane	0.04	151	၂၀၃၀ ခုနှစ် မှစ၍ အပြီးသတ် ရပ်ဆိုင်းမည် ဖြစ်သည်။
		CHF ₂ Cl	(HCFC-22)	Chlorodifluoromethane	0.055	1 810	
		CH ₂ FCI	(HCFC-31)	Chlorofluoromethane	0.02		
		C ₂ HFCl ₄	(HCFC-121)	Tetrachlorofluoroethane	0.01–0.04		
		C ₂ HF ₂ Cl ₃	(HCFC-122)	Trichlorodifluoroethane	0.02–0.08		
		C ₂ HF ₃ Cl ₂	(HCFC-123)	Dichlorotrifluoroethane	0.02–0.06	77	
		C ₂ HF ₄ Cl	(HCFC-124)	Chlorotetrafluoroethanes	0.02–0.04	609	
		C ₂ H ₂ FCI ₃	HCFC-131	Trichlorofluoroethane	0.007–0.05		
		C ₂ H ₂ F ₂ Cl ₂	(HCFC-132)	Dichlorodifluoroethane	0.008–0.05		
		C ₂ H ₂ F ₃ Cl	(HCFC-133)	Chlorotrifluoroethane	0.02–0.06		
		C ₂ H ₃ FCI ₂	(HCFC-141)	Dichlorofluoroethane	0.005–0.07		
		CH ₃ CFCl ₂	(HCFC-141b)	Dichlorofluoroethane	0.11	725	
		C ₂ H ₃ F ₂ Cl	(HCFC-142)	Chlorodifluoroethane	0.008–0.07		
		CH ₃ CF ₂ Cl	(HCFC-142b)	Chlorodifluoroethane	0.065	2 310	
		C ₂ H ₄ FCI	(HCFC-151)	Chlorofluoroethane	0.003–0.005		
		C ₃ HFCl ₆	(HCFC-221)	Hexachlorofluoropropane	0.015–0.07		
		C ₃ HF ₂ Cl ₅	(HCFC-222)	Pentachlorodifluoropropane	0.01–0.09		
		C ₃ HF ₃ Cl ₄	(HCFC-223)	Tetrachlorotrifluoropropane	0.01–0.08		
		C ₃ HF ₄ Cl ₃	(HCFC-224)	Trichlorotetrafluoropropane	0.01–0.09		
		C ₃ HF ₅ Cl ₂	(HCFC-225)	Dichloropentafluoropropane	0.02–0.07		
		CF ₃ CF ₂ CHCl ₂	(HCFC-225ca)	Dichloropentafluoropropane	0.025		
		CF ₂ ClCF ₂ CHClF	(HCFC-225cb)	Dichloropentafluoropropane	0.033		
		C ₃ HF ₆ Cl	(HCFC-226)	Monochlorohexafluoropropane	0.02–0.10		
		C ₃ H ₂ FCI ₅	(HCFC-231)	Pentachlorofluoropropane	0.05–0.09		
C ₃ H ₂ F ₂ Cl ₄	(HCFC-232)	Tetrachlorodifluoropropane	0.008–0.10				
C ₃ H ₂ F ₃ Cl ₃	(HCFC-233)	Trichlorotrifluoropropane	0.007–0.23				
C ₃ H ₂ F ₄ Cl ₂	(HCFC-234)	Dichlorotetrafluoropropane	0.01–0.28				

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		C ₃ H ₂ F ₅ Cl	(HCFC-235)	Monochloropentafluoropropane	0.03–0.52		
		C ₃ H ₃ FCl ₄	(HCFC-241)	Tetrachlorofluoropropane	0.004–0.09		
		C ₃ H ₃ F ₂ Cl ₃	(HCFC-242)	Trichlorodifluoropropane	0.005–0.13		
		C ₃ H ₃ F ₃ Cl ₂	(HCFC-243)	Dichlorotrifluoropropane	0.007–0.12		
		C ₃ H ₃ F ₄ Cl	(HCFC-244)	Monochlorotetrafluoropropane	0.009–0.14		
		C ₃ H ₄ FCl ₃	(HCFC-251)	Monochlorotetrafluoropropane	0.001–0.01		
		C ₃ H ₄ F ₂ Cl ₂	(HCFC-252)	Dichlorodifluoropropane			
		C ₃ H ₄ F ₃ Cl	(HCFC-253)	Monochlorotrifluoropropane	0.003–0.03		
		C ₃ H ₅ FCl ₂	(HCFC-261)	Dichlorofluoropropane	0.002–0.02		
		C ₃ H ₅ F ₂ Cl	(HCFC-262)	Monochlorodifluoropropane	0.002–0.02		
		C ₃ H ₆ FCl	(HCFC-271)	Monochlorofluoropropane	0.001–0.03		
	Group II	CHBr ₂	(HBFC-21 B2)	Dibromofluoromethane	1.00		၁၉၉၅ ခုနှစ် မှစ၍ အပြီးသတ် ရုပ်ဆိုင်ပြီး ဖြစ်သည်။
		CHF ₂ Br	(HBFC-22B1)	Bromodifluoromethane	0.74		
		CH ₂ FBr	(HBFC-31 B1)	Bromofluoromethane	0.73		
		C ₂ HBr ₄	(HBFC-121 B4)	Tetrabromofluoroethane	0.3–0.8		
		C ₂ HF ₂ Br ₃	(HBFC-122 B3)	Tribromodifluoroethane	0.5–1.8		
		C ₂ HF ₃ Br ₂	(HBFC-123 B2)	Dibromotrifluoroethane	0.4–1.6		
		C ₂ HF ₄ Br	HBFC-124 B1	Bromotetrafluoroethane	0.7–1.2		
		C ₂ H ₂ FBr ₃	HBFC-131 B3	Tribromofluoroethane	0.1–1.1		
		C ₂ H ₂ F ₂ Br ₂	HBFC-132 B2	Dibromodifluoroethane	0.2–1.5		
		C ₂ H ₂ F ₃ Br	HBFC-133 B1	Bromotrifluoroethane	0.7–1.6		
		C ₂ H ₃ FBr ₂	HBFC-141 B2	Dibromofluoroethane	0.1–1.7		
		C ₂ H ₃ F ₂ Br	HBFC-142 B1	Bromodifluoroethane	0.2–1.1		
		C ₂ H ₄ FBr	HBFC-151 B1	Bromofluoroethane	0.07–0.1		
		C ₃ HBr ₆	HBFC-221 B6	Hexabromofluoropropane	0.3–1.5		
C ₃ HF ₂ Br ₅	HBFC-222 B5	Pentabromodifluoropropane	0.2–1.9				
C ₃ HF ₃ Br ₄	HBFC-223 B4	Tetrabromotrifluoropropane	0.3–1.8				
C ₃ HF ₄ Br ₃	HBFC-224 B3	Tribromotetrafluoropropane	0.5–2.2				
C ₃ HF ₅ Br ₂	HBFC-225 B2	Dibromopentafluoropropane	0.9–2.0				

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		C ₃ HF ₆ Br	HBFC-226 B1	Bromohexafluoropropane	0.7–3.3		
		C ₃ H ₂ FBr ₅	HBFC-231 B5	Pentabromofluoropropane	0.1–1.9		
		C ₃ H ₂ F ₂ Br ₄	HBFC-232 B4	Tetrabromodifluoropropane	0.2–2.1		
		C ₃ H ₂ F ₃ Br ₃	HBFC-233 B3	Tribromotrifluoropropane	0.2–5.6		
		C ₃ H ₂ F ₄ Br ₂	HBFC-234 B2	Dibromotetrafluoropropane	0.3–7.5		
		C ₃ H ₂ F ₅ Br	HBFC-235 B1	Bromopentafluoropropane	0.9–1.4		
		C ₃ H ₃ FBr ₄	HBFC-241 B4	Tetrabromofluoropropane	0.08–1.9		
		C ₃ H ₃ F ₂ Br ₃	HBFC-242 B3	Tribromodifluoropropane	0.1–3.1		
		C ₃ H ₃ F ₃ Br ₂	HBFC-243 B2	Dibromotrifluoropropane	0.1–2.5		
		C ₃ H ₃ F ₄ Br	HBFC-244 B1	Bromotetrafluoropropane	0.3–4.4		
		C ₃ H ₄ FBr ₃	HBFC-251 B1	Tribromofluoropropane	0.03–0.3		
		C ₃ H ₄ F ₂ Br ₂	HBFC-252 B2	Dibromodifluoropropane	0.1–1.0		
		C ₃ H ₄ F ₃ Br	HBFC-253 B1	Bromotrifluoropropane	0.07–0.8		
		C ₃ H ₅ FBr ₂	HBFC-261 B2	Dibromofluoropropane	0.04–0.4		
		C ₃ H ₅ F ₂ Br	HBFC-262 B1	Bromodifluoropropane	0.07–0.8		
		C ₃ H ₆ FBr	HBFC-271 B1	Bromofluoropropane	0.02–0.7		
	Group III	CH ₂ BrCl	BCM	Bromochloromethane	0.12		၂၀၀၂ ခုနှစ် မှစ၍ အပြီးသတ် ရပ်ဆိုင်းပြီး ဖြစ်သည်။
Annex E:	Group I	CH ₃ Br		Methyl bromide		0.6	၂၀၀၅ ခုနှစ် မှစ၍ အပြီးသတ် ရပ်ဆိုင်းပြီး ဖြစ်သည်။

Annex	Group	Chemical Formula	Substance (Refrigerant Type)	Chemical name	ODP (Ozone Depleting Potential)	GWP (100-Year Global Warming Potential)	Remark
Annex F:	Group I	CHF ₂ CHF ₂	HFC-134	Tetrafluoroethane		1 100	ကီဂီလီ ပြင်ဆင်ချက် အရ သုံးစွဲမှု ပမာဏ လျှော့ချရန် သတ်မှတ် ထားသော ခြံငွေများ ဖြစ်သည်။
		CH ₂ FCF ₃	HFC-134a	Tetrafluoroethane		1 430	
		CH ₂ FCHF ₂	HFC-143	Trifluoroethane		353	
		CHF ₂ CH ₂ CF ₃	HFC-245fa	Pentafluoropropane		1 030	
		CF ₃ CH ₂ CF ₂ CH ₃	HFC-365mfc	Pentafluorobutane		794	
		CF ₃ CHFCF ₃	HFC-227ea	Heptafluoropropane		3 220	
		CH ₂ FCF ₂ CF ₃	HFC-236cb	Hexafluoropropane		1 340	
		CHF ₂ CHFCF ₃	HFC-236ea	Hexafluoropropane		1 370	
		CF ₃ CH ₂ CF ₃	HFC-236fa	Hexafluoropropane		9 810	
		CH ₂ FCF ₂ CHF ₂	HFC-245ca	Pentafluoropropane		693	
		CF ₃ CHFCF ₂ CF ₃	HFC-43-10mee	Decafluoropentane		1640	
		CH ₂ F ₂	HFC-32	Difluoromethane		675	
		CHF ₂ CF ₃	HFC-125	Pentafluoroethane		3 500	
		CH ₃ CF ₃	HFC-143a	Trifluoroethane		4 470	
		CH ₃ F	HFC-41	Fluoroethane		92	
		CH ₂ FCH ₂ F	HFC-152	Difluoroethane		53	
	CH ₃ CHF ₂	HFC-152a	Difluoroethane		124		
Group II	CHF ₃	HFC-23	Trifluoromethane		14 800		