ANNEX I

OZONE-DEPLETING SUBSTANCES REFERRED TO IN ARTICLE 2, POINT (A) ([1])

Group	Substance			Ozone-depleting potential (ODP) ([1])	Global warming potential (GWP) ([2])
Group I	$CFCl_3$	CFC-11	Trichlorofluoromethane	1,0	5 560
	CF_2Cl_2	CFC-12	Dichlorodifluoromethane	1,0	11 200
	$C_2F_3Cl_3$	CFC-113	Trichlorotrifluoroethane	0,8	6 520
	$C_2F_4Cl_2$	CFC-114	Dichlorotetrafluoroethane	1,0	9 430
	C_2F_5Cl	CFC-115	Chloropentafluoroethane	0,6	9 600
Group II	CF_3Cl	CFC-13	Chlorotrifluoromethane	1,0	16 200
	C_2FCl_5	CFC-111	Pentachlorofluoroethane	1,0	(*)
	$C_2F_2Cl_4$	CFC-112	Tetrachlorodifluoroethane	1,0	4 620
	C_3FCl_7	CFC-211	Heptachlorofluoropropane	1,0	(*)
	$C_3F_2Cl_6$	CFC-212	Hexachlorodifluoropropane	1,0	(*)
	$C_3F_3Cl_5$	CFC-213	Pentachlorotrifluoropropane	1,0	(*)
	$C_3F_4Cl_4$	CFC-214	Tetrachlorotetrafluoropropane	1,0	(*)
	$C_3F_5Cl_3$	CFC-215	Trichloropentafluoropropane	1,0	(*)
	$C_3F_6Cl_2$	CFC-216	Dichlorohexafluoropropane	1,0	(*)
	C_3F_7Cl	CFC-217	Chloroheptafluoropropane	1,0	(*)
Group III	CF_2BrCl	halon-1211	Bromochlorodifluoromethane	3,0	1 930
	CF_3Br	halon-1301	Bromotrifluoromethane	10,0	7 200
	$C_2F_4Br_2$	halon-2402	Dibromotetrafluoroethane	6,0	2 170
	CBr_2F_2	halon-1202	Dibromodifluoromethane	1,25	216
Group IV	CCl_4	CTC	Tetrachloromethane (carbon tetrachloride)	1,1	2 200
Group V	$C_2H_3Cl_3$ ([3])	1,1,1-TCA	1,1,1-Trichloroethane (methylchloroform)	0,1	161
Group VI	CH_3Br	methyl bromide	Bromomethane	0,6	2,43

([1]) This Annex includes the ozone-depleting substances and their isomers. As per Article 2, point (a), mixtures containing the ozone-depleting substances listed in this Annex are considered as ozone-depleting substances covered by this Regulation.

Group	Substance			Ozone-depleting potential (ODP) [1]	Global warming potential (GWP) [2]
Group VII	$CHFBr_2$	HBFC-21 B2	Dibromofluoromethane	1,00	(*)
	CHF_2Br	HBFC-22 B1	Bromodifluoromethane	0,74	380
	CH_2FBr	HBFC-31 B1	Bromofluoromethane	0,73	(*)
	C_2HFBr_4	HBFC-121 B4	Tetrabromofluoroethane	0,8	(*)
	$C_2HF_2Br_3$	HBFC-122 B3	Tribromodifluoroethane	1,8	(*)
	$C_2HF_3Br_2$	HBFC-123 B2	Dibromotrifluoroethane	1,6	(*)
	C_2HF_4Br	HBFC-124 B1	Bromotetrafluoroethane	1,2	201
	$C_2H_2FBr_3$	HBFC-131 B3	Tribromofluoroethane	1,1	(*)
	$C_2H_2F_2Br_2$	HBFC-132 B2	Dibromodifluoroethane	1,5	(*)
	$C_2H_2F_3Br$	HBFC-133 B1	Bromotrifluoroethane	1,6	177
	$C_2H_3FBr_2$	HBFC-141 B2	Dibromofluoroethane	1,7	(*)
	$C_2H_3F_2Br$	HBFC-142 B1	Bromodifluoroethane	1,1	(*)
	C_2H_4FBr	HBFC-151 B1	Bromofluoroethane	0,1	(*)
	C_3HFBr_6	HBFC-221 B6	Hexabromofluoropropane	1,5	(*)
	$C_3HF_2Br_5$	HBFC-222 B5	Pentabromodifluoropropane	1,9	(*)
	$C_3HF_3Br_4$	HBFC-223 B4	Tetrabromotrifluoropropane	1,8	(*)
	$C_3HF_4Br_3$	HBFC-224 B3	Tribromotetrafluoropropane	2,2	(*)
	$C_3HF_5Br_2$	HBFC-225 B2	Dibromopentafluoropropane	2,0	(*)
	C_3HF_6Br	HBFC-226 B1	Bromohexafluoropropane	3,3	(*)
	$C_3H_2FBr_5$	HBFC-231 B5	Pentabromofluoropropane	1,9	(*)
	$C_3H_2F_2Br_4$	HBFC-232 B4	Tetrabromodifluoropropane	2,1	(*)

Group	Substance			Ozone-depleting potential (ODP) [1]	Global warming potential (GWP) [2]
	$C_3H_2F_3Br_3$	HBFC-233 B3	Tribromotrifluoropropane	5,6	(*)
	$C_3H_2F_4Br_2$	HBFC-234 B2	Dibromotetrafluoropropane	7,5	(*)
	$C_3H_2F_5Br$	HBFC-235 B1	Bromopentafluoropropane	1,4	(*)
	$C_3H_3FBr_4$	HBFC-241 B4	Tetrabromofluoropropane	1,9	(*)
	$C_3H_3F_2Br_3$	HBFC-242 B3	Tribromodifluoropropane	3,1	(*)
	$C_3H_3F_3Br_2$	HBFC-243 B2	Dibromotrifluoropropane	2,5	(*)
	$C_3H_3F_4Br$	HBFC-244 B1	Bromotetrafluoropropane	4,4	(*)
	$C_3H_4FBr_3$	HBFC-251 B1	Tribromofluoropropane	0,3	(*)
	$C_3H_4F_2Br_2$	HBFC-252 B2	Dibromodifluoropropane	1,0	(*)
	$C_3H_4F_3Br$	HBFC-253 B1	Bromotrifluoropropane	0,8	(*)
	$C_3H_5FBr_2$	HBFC-261 B2	Dibromofluoropropane	0,4	(*)
	$C_3H_5F_2Br$	HBFC-262 B1	Bromodifluoropropane	0,8	(*)
	C_3H_6FBr	HBFC-271 B1	Bromofluoropropane	0,7	(*)
Group VIII	$CHFCl_2$	HCFC-21 [4]	Dichlorofluoromethane	0,040	160
	CHF_2Cl	HCFC-22 [3]	Chlorodifluoromethane	0,055	1 960
	CH_2FCl	HCFC-31	Chlorofluoromethane	0,020	79,4
	C_2HFCl_4	HCFC-121	Tetrachlorofluoroethane	0,040	58,3
	$C_2HF_2Cl_3$	HCFC-122	Trichlorodifluoroethane	0,080	56,4
	$C_2HF_3Cl_2$	HCFC-123 [3]	Dichlorotrifluoroethane	0,020	90,4
	C_2HF_4Cl	HCFC-124 [3]	Chlorotetrafluoroethane	0,022	597
	$C_2H_2FCl_3$	HCFC-131	Trichlorofluoroethane	0,050	30 [5]

Group	Substance			Ozone-depleting potential (ODP) (1)	Global warming potential (GWP) (2)
	$C_2H_2F_2Cl_2$	HCFC-132	Dichlorodifluoroethane	0,050	122
	$C_2H_2F_3Cl$	HCFC-133	Chlorotrifluoroethane	0,060	275 (4)
	$C_2H_3FCl_2$	HCFC-141	Dichlorofluoroethane	0,070	46,6
	CH_3CFCl_2	HCFC-141b (3)	1,1-Dichloro-1-fluoroethane	0,110	860
	$C_2H_3F_2Cl$	HCFC-142	Chlorodifluoroethane	0,070	175 (4)
	CH_3CF_2Cl	HCFC-142b (3)	1-Chloro– 1,1-difluoroethane	0,065	2 300
	C_2H_4FCl	HCFC-151	Chlorofluoroethane	0,005	10 (4)
	C_3HFCl_6	HCFC-221	Hexachlorofluoropropane	0,070	110 (4)
	$C_3HF_2Cl_5$	HCFC-222	Pentachlorodifluoropropane	0,090	500 (4)
	$C_3HF_3Cl_4$	HCFC-223	Tetrachlorotrifluoropropane	0,080	695 (4)
	$C_3HF_4Cl_3$	HCFC-224	Trichlorotetrafluoropropane	0,090	1 090 (4)
	$C_3HF_5Cl_2$	HCFC-225	Dichloropentafluoropropane	0,070	1 560 (4)
	$CF_3CF_2CHCl_2$	HCFC-225ca (3)	3,3-Dichloro-1,1,1,2,2-pentafluoropropane	0,025	137
	CF_2ClCF_2CHClF	HCFC-225cb (3)	1,3-Dichloro-1,1,2,2,3-pentafluoropropane	0,033	568
	C_3HF_6Cl	HCFC-226	Chlorohexafluoropropane	0,100	2 455 (4)
	$C_3H_2FCl_5$	HCFC-231	Pentachlorofluoropropane	0,090	350 (4)
	$C_3H_2F_2Cl_4$	HCFC-232	Tetrachlorodifluoropropane	0,100	690 (4)
	$C_3H_2F_3Cl_3$	HCFC-233	Trichlorotrifluoropropane	0,230	1 495 (4)
	$C_3H_2F_4Cl_2$	HCFC-234	Dichlorotetrafluoropropane	0,280	3 490 (4)
	$C_3H_2F_5Cl$	HCFC-235	Chloropentafluoropropane	0,520	5 320 (4)

Group	Substance			Ozone-depleting potential (ODP) [1]	Global warming potential (GWP) [2]
	$C_3H_3FCl_4$	HCFC-241	Tetrachlorofluoropropane	0,090	450 [4]
	$C_3H_3F_2Cl_3$	HCFC-242	Trichlorodifluoropropane	0,130	1 025 [4]
	$C_3H_3F_3Cl_2$	HCFC-243	Dichlorotrifluoropropane	0,120	2 060 [4]
	$C_3H_3F_4Cl$	HCFC-244	Chlorotetrafluoropropane	0,140	3 360 [4]
	$C_3H_4FCl_3$	HCFC-251	Trichlorofluoropropane	0,010	70 [4]
	$C_3H_4F_2Cl_2$	HCFC-252	Dichlorodifluoropropane	0,040	275 [4]
	$C_3H_4F_3Cl$	HCFC-253	Chlorotrifluoropropane	0,030	665 [4]
	$C_3H_5FCl_2$	HCFC-261	Dichlorofluoropropane	0,020	84 [4]
	$C_3H_5F_2Cl$	HCFC-262	Chlorodifluoropropane	0,020	227 [4]
	C_3H_6FCl	HCFC-271	Chlorofluoropropane	0,030	340 [4]
Group IX	CH_2BrCl	BCM	Bromochloromethane	0,12	4,74

[1] The figures relating to ODP are estimates based on existing knowledge and will be reviewed and revised periodically in the light of decisions taken by the Parties.

[2] Based on the Sixth Assessment Report, Chapter 7: The Earth's energy budget, climate feedbacks, and climate sensitivity – Supplementary Material adopted by the Intergovernmental Panel on Climate Change, unless otherwise indicated.

(*) Default value, GWP not yet available.

[3] This formula does not refer to 1,1,2-trichloroethane.

[4] Identifies the most commercially viable substance as prescribed in the Protocol.

[5] Scientific Assessment of Ozone Depletion: 2018; Appendix A Summary of Abundances, Lifetimes, Ozone Depletion Potentials (ODPs), Radiative Efficiencies (REs), Global Warming Potentials (GWPs), and Global Temperature change Potentials (GTPs).

ANNEX II

OZONE-DEPLETING SUBSTANCES REFERRED TO IN ARTICLE 2, POINT (A), NOT CONTROLLED UNDER THE PROTOCOL [1]

Substance		Ozone-depleting potential (ODP) [1]	Global warming potential (GWP) [2]
C_3H_7Br	1-Bromopropane (n-propyl bromide)	0,02 – 0,10	0,052
C_2H_5Br	Bromoethane (ethyl bromide)	0,1 – 0,2	0,487
CF_3I	Trifluoroiodomethane (trifluoromethyl iodide)	0,01 – 0,02	(*)
CH_3Cl	Chloromethane (methyl chloride)	0,02	5,54
$C_3H_2BrF_3$	2-bromo-3,3,3-trifluoroprop-1-en (2-BTP)	< 0,05 [3]	(*)
CH_2Cl_2	Dichloromethane (DCM)	non zero [4]	11,2
C_2Cl_4	Tetrachloroethene (Perchloroethylene (PCE))	0,006 – 0,007 [3]	(*)

[1] The figures relating to ODP are estimates based on existing knowledge and will be reviewed and revised periodically in the light of decisions taken by the Parties.

[2] Based on the Sixth Assessment Report, Chapter 7: The Earth's energy budget, climate feedbacks, and climate sensitivity – Supplementary Material adopted by the Intergovernmental Panel on Climate Change, unless otherwise indicated.

(*) Default value, GWP not yet available.

[3] Scientific Assessment of Ozone Depletion: 2018; Appendix A Summary of Abundances, Lifetimes, Ozone Depletion Potentials (ODPs), Radiative Efficiencies (REs), Global Warming Potentials (GWPs), and Global Temperature change Potentials (GTPs).

[4] New Ozone-Depleting substances that have been reported by the Parties: Decisions XIII/5, X/8 and IX/24 (Updated May 2012). https://ozone.unep.org/resources?term_node_tid_depth%5B883%5D=883

[1] This Annex includes the ozone-depleting substances and their isomers. As per Article 2, point (a), mixtures containing the ozone-depleting substances listed in this Annex are considered as ozone-depleting substances covered by this Regulation.