

主な温室効果ガスの温暖化係数一覧

物質名称	化学式	GWP			変化率	
		SAR (100年値) ①	AR4 (100年値) ②	AR5 (100年値) ③	SAR→ AR4 (②/①-1)	AR4→ AR5 (③/②-1)
Carbon dioxide	CO ₂	1	1	1	0%	0%
Methane	CH ₄	21	25	28	19%	12%
Nitrous oxide	N ₂ O	310	298	265	-4%	-11%
			平均変化率		5%	0%
HFC						
HFC-23	CHF ₃	11,700	14,800	12,400	26%	-16%
HFC-32	CH ₂ F ₂	650	675	677	4%	0%
HFC-41	CH ₃ F	150	92	116	-39%	26%
HFC-125	CHF ₂ CF ₃	2,800	3,500	3,170	25%	-9%
HFC-134	CHF ₂ CHF ₂	1000	1,100	1,120	10%	2%
HFC-134a	CH ₂ FCF ₃	1,300	1,430	1,300	10%	-9%
HFC-143	CH ₂ FCHF ₂	300	353	328	18%	-7%
HFC-143a	CH ₃ CF ₃	3,800	4,470	4,800	18%	7%
HFC-152	CH ₂ FCH ₂ F		53	16		-70%
HFC-152a	CH ₃ CHF ₂	140	124	138	-11%	11%
HFC-161	CH ₃ CH ₂ F		12	4		-67%
HFC-227ea	CF ₃ CHFCF ₃	2,900	3,220	3,350	11%	4%
HFC-236cb	CH ₂ FCF ₂ CF ₃		1,340	1,210		-10%
HFC-236ea	CHF ₂ CHFCF ₃		1,370	1,330		-3%
HFC-236fa	CF ₃ CH ₂ CF ₃	6,300	9,810	8,060	56%	-18%
HFC-245ca	CH ₂ FCF ₂ CHF ₂	560	693	716	24%	3%
HFC-245fa	CHF ₂ CH ₂ CF ₃		1,030	858		-17%
HFC-365mfc	CH ₃ CF ₂ CH ₂ CF ₃		794	804		1%
HFC-43-10mee	CF ₃ CHFCF ₂ CF ₃	1,300	1,640	1,650	26%	1%
			平均変化率		14%	-9%
NF3, SF6, PFC						
Nitrogen trifluoride	NF ₃		17,200	16,100		-6%
Sulphur hexafluoride	SF ₆	23,900	22,800	23,500	-5%	3%
PFC-14	CF ₄	6,500	7,390	6,630	14%	-10%
PFC-116	C ₂ F ₆	9,200	12,200	11,100	33%	-9%
PFC-c216	c-C ₃ F ₆		17,340	9,200		-47%
PFC-218	C ₃ F ₈	7,000	8,830	8,900	26%	1%
PFC-318	c-C ₄ F ₈	8,700	10,300	9,540	18%	-7%
PFC-31-10	C ₄ F ₁₀	7,000	8,860	9,200	27%	4%
PFC-41-12	n-C ₅ F ₁₂	7,500	9,160	8,550	22%	-7%
PFC-51-14	n-C ₆ F ₁₄	7,400	9,300	7,910	26%	-15%
PFC-91-18	C ₁₀ F ₁₈		7,500	7,190		-4%
			平均変化率		20%	-9%

出典:

SAR:IPCC第2次報告書(京都議定書第一約束期間におけるGWP値)

AR4:IPCC第4次報告書(京都議定書第二約束期間におけるGWP値)

AR5:IPCC第5次報告書