

Index	Gas	Molecular weight $w_f$ (g mol <sup>-1</sup> )	Radiative efficiency $\eta$ (W m <sup>-2</sup> ppb <sup>-1</sup> )	Lifetime $\tau$ (yr)	$r_i$	$n_{Cl}$	$n_{Br}$
Major gases							
0	CO <sub>2</sub>	44.01	N/A	Variable			
1	CH <sub>4</sub>	16.04	N/A	9.3			
2	N <sub>2</sub> O	44.01	N/A	121			
Kyoto Protocol gases							
3	CF <sub>4</sub>	88.00	0.09	50 000			
4	C <sub>2</sub> F <sub>6</sub>	138.01	0.25	10 000			
5	C <sub>6</sub> F <sub>14</sub>	338.04	0.44	3100			
6	HFC23	70.01	0.18	222			
7	HFC32	52.02	0.11	5.2			
8	HFC43-10	252.06	0.42	16.1			
9	HFC125	120.02	0.23	28.2			
10	HFC134a	102.03	0.16	13.4			
11	HFC143a	84.04	0.16	47.1			
12	HFC227ea	170.03	0.26	38.9			
13	HFC245fa	134.05	0.24	7.7			
14	SF <sub>6</sub>	146.06	0.57	3200			
Ozone-depleting substances							
15	CFC11	137.37	0.26	45	0.47	3	0
16	CFC12	120.91	0.32	100	0.23	2	0
17	CFC113	187.38	0.30	85	0.29	3	0
18	CFC114	170.92	0.31	190	0.12	2	0
19	CFC115	154.47	0.20	1020	0.04	1	0
20	CCl <sub>4</sub>	153.81	0.17	26	0.56	4	0
21	Methyl chloroform	133.40	0.07	5	0.67	3	0
22	HCFC22	86.47	0.21	11.9	0.13	1	0
23	HCFC141b	116.94	0.16	9.2	0.34	2	0
24	HCFC142b	100.49	0.19	17.2	0.17	1	0
25	Halon 1211	165.36	0.29	16.0	0.62	1	1
26	Halon 1202	209.82	0.27	2.9	0.62	0	2
27	Halon 1301	148.91	0.30	65	0.28	0	1
28	Halon 2402	259.82	0.30	20	0.65	0	2
29	CH <sub>3</sub> Br	94.94	0.004	0.8	0.60	0	1
30	CH <sub>3</sub> Cl	50.49	0.01	1	0.44	1	0