

Appendix G

GWP Summaries Using AR4 and AR5 Values

Industrial designation or common name	Chemical formula	GWP values for 100-year time horizon			
		Second Assessment Report (SAR)	Fourth Assessment Report (AR4)	Fifth Assessment Report (AR5) - no climate-carbon feedback	Fifth Assessment Report (AR5) - climate-carbon feedback
Carbon dioxide	CO2	1	1	1	1
Methane	CH4	21	25	28	34
Nitrous oxide	N2O	310	298	265	298
HFC-23	CHF3	11,700	14,800	12,400	13,856
HFC-32	CH2F2	650	675	677	817
HFC-125	CHF2CF3	2,800	3,500	3,170	
HFC-134a	CH2FCF3	1,300	1,430	1,300	1,549
HFC-143a	CH3CF3	3,800	4,470	4,800	5,508
HFC-152a	CH3CHF2	140	124	138	
HFC-227ea	CF3CHFCF3	2,900	3,220	3,350	
HFC-236fa	CF3CH2CF3	6,300	9,810	8,060	8,998
Sulfur hexafluoride	SF6	23,900	22,800	23,500	26,087
Nitrogen trifluoride	NF3		17,200	16,100	17,885
PFC-14	CF4	6,500	7,390	6,630	7,349
PFC-116	C2F6	9,200	12,200	11,100	12,340
PFC-218	C3F8	7,000	8,830	8,900	9,878
PFC-318	c-C4F8	8,700	10,300	9,540	10,592