

ANNEX 8A.1

PREFIXES, UNITS AND ABBREVIATIONS, STANDARD EQUIVALENTS

Annex 8A.1 Prefixes, units and abbreviations, standard equivalents

Prefixes and multiplication factors

Multiplication Factor	Abbreviation	Prefix	Symbol
1 000 000 000 000 000	10 ¹⁵	peta	P
1 000 000 000 000	10 ¹²	tera	T
1 000 000 000	10 ⁹	giga	G
1 000 000	10 ⁶	mega	M
1 000	10 ³	kilo	k
100	10 ²	hecto	h
10	10 ¹	deca	da
0.1	10 ⁻¹	deci	d
0.01	10 ⁻²	centi	c
0.001	10 ⁻³	milli	m
0.000 001	10 ⁻⁶	micro	μ

Units and abbreviations

cubic metre	m ³
hectare	ha
gram	g
tonne	t
Joule	J
degree Celsius	°C
calorie	cal
year	yr
capita	cap
gallon	gal
dry matter	d.m.
kilogram	kg
pound	lb
atmosphere	atm
Pascal	Pa
hour	h
Watt	W

Units and abbreviations, and standard equivalents

1 tonne of oil equivalent (toe)	1 toe	1 x 10 ¹⁰ calories	1 x 10 ¹⁰ cal
1 ktoe		41.868 terajoules	41.868 TJ
1 short ton	1 sh t	0.9072 tonne	0.9072 t
1 tonne	1 t	1.1023 short tons	1.1023 sh t
1 tonne	1 t	1 megagram	1 Mg
1 kilotonne	1 kt	1 gigagram	1 Gg
1 megatonne	1 Mt	1 teragram	1 Tg
1 gigatonne	1 Gt	1 petagram	1 Pg
1 kilogram	1 kg	2.2046 pounds	2.2046 lb
1 hectare	1 ha	10 ⁴ square meters	10 ⁴ m ²
1 calorie _{IT}	1 cal _{IT}	4.1868 Joules	4.1868 J
1 atmosphere	1 atm	101.325 kilopascal	101.325 kPa
1 gram	1 g	0.002205 pounds	0.00205 lb
1 pound	1 lb	453.6 gram	453.6 g
1 terajoule	1 TJ	2.78 x 10 ⁵ kilowatt hour	2.78 x 10 ⁵ kWh
1 kilowatt hour	1 kWh	3.6 x 10 ⁶ Joules	3.6 x 10 ⁶ J

Formulae for chemical compounds

Chemical formula	Gas
CO ₂	Carbon dioxide
CH ₄	Methane
N ₂ O	Nitrous oxide
HFCs	Hydrofluorocarbons
PFCs	Perfluorocarbons
SF ₆	Sulphur hexafluoride
NF ₃	Nitrogen trifluoride
SF ₅ CF ₃	Trifluoromethyl sulphur pentafluoride
CFCs	Chlorofluorocarbons
CHF ₃	HFC-23
CH ₂ F ₂	HFC-32
CH ₃ F	HFC-41
CHF ₂ CF ₃	HFC-125
CHF ₂ CHF ₂	HFC-134
CH ₂ FCF ₃	HFC-134a
CHF ₂ CH ₂ F	HFC-143
CF ₃ CH ₃	HFC-143a
CH ₂ FCH ₂ F	HFC-152
CH ₃ CHF ₂	HFC-152a
CH ₃ CH ₂ F	HFC-161
CF ₃ CHFCF ₃	HFC-227ea
CH ₂ FCF ₂ CF ₃	HFC-236cb
CHF ₂ CHFCF ₃	HFC-236ea

Final Draft

Formulae for chemical compounds (Continued)

Chemical formula	Gas
CF ₃ CH ₂ CF ₃	HFC-236fa
CH ₂ FCF ₂ CHF ₂	HFC-245ca
CHF ₂ CH ₂ CF ₃	HFC-245fa
CF ₃ CH ₂ CF ₂ CH ₃	HFC-365mfc
CF ₃ CHFCHF ₂ CF ₃	HFC-43-10mee
CF ₃ OCHF ₂	HFE-125
CHF ₂ OCHF ₂	HFE-134
CH ₃ OCF ₃	HFE-143a
CF ₃ CHClOCHF ₂	HCFE-235da2
CF ₃ CF ₂ OCH ₃	HFE-245cb2
CF ₃ CH ₂ OCHF ₂	HFE-245fa2
CHF ₂ CF ₂ OCH ₃	HFE-254cb2
CF ₃ CF ₂ CF ₂ OCH ₃	HFE-347mcc3
CHF ₂ CF ₂ CH ₂ OCHF ₂	HFE-356pcf3
CHF ₂ CF ₂ OCH ₂ CH ₃	HFE-374pc2
C ₄ F ₉ OCH ₃	HFE-7100
C ₄ F ₉ OC ₂ H ₅	HFE-7200
CHF ₂ OCF ₂ OC ₂ F ₄ OCHF ₂	H-Galden 1040x
CHF ₂ OCF ₂ OCHF ₂	HG-10
CHF ₂ OCF ₂ CF ₂ OCHF ₂	HG-01
CF ₄	Perfluoromethane
C ₂ F ₆	Perfluoroethane
C ₃ F ₈	Perfluoropropane
C ₄ F ₁₀	Perfluorobutane
c-C ₄ F ₈	Perfluorocyclobutane
C ₅ F ₁₂	Perfluoropentane
C ₆ F ₁₄	Perfluorohexane
c-C ₃ F ₆	Perfluorocyclopropane
CF ₃ CHFOCF ₃	HFE-227ea
CF ₃ CHFOCHF ₂	HFE-236ea2
CF ₃ CH ₂ OCF ₃	HFE-236fa
CHF ₂ CH ₂ OCF ₃	HFE-245fa1
CF ₃ CH ₂ OCH ₃	HFE-263fb2
CF ₃ CF ₂ OCF ₂ CHF ₂	HFE-329mcc2
CF ₃ CF ₂ OCH ₂ CF ₃	HFE-338mcf2
CF ₃ CF ₂ OCH ₂ CHF ₂	HFE-347mcf2
CF ₃ CHF ₂ CF ₂ OCH ₃	HFE-356mec3
CHF ₂ CF ₂ CF ₂ OCH ₃	HFE-356pcc3
CHF ₂ CF ₂ OCH ₂ CHF ₂	HFE-356pcf2
CF ₃ CF ₂ CH ₂ OCH ₃	HFE-365mcf3

CF ₃ I	Trifluoroiodomethane
CH ₂ Br ₂	Dibromomethane
CHCl ₃	Chloroform
CH ₃ Cl	Chloromethane
CH ₂ Cl ₂	Dichloromethane
CO	Carbon monoxide
NO _x	Nitrogen oxides
NMVOC	Non-methane volatile organic compound
SO ₂	Sulphur dioxide
NH ₃	Ammonia