



"Controlled substance" means a substance in Annex A, Annex B, Annex C, Annex E or Annex F to this Protocol, whether existing alone or in a mixture.

		Banned / ممنوع
		uncontrolled / غير مقيد

Controlled Gases Under The National Ozone Unit

Status		Gas
Annex A		
CFC (group I)	CFC-11	R-11
	CFC-12	R-12
	CFC-113	R-113
	CFC-114	R-114
	CFC-115	R-115
Halon (group II) مسموحة فقط في حال كانت مستصلحة Allowed only if it was reclaimed	Halon1211	Halon1211
	Halon 1301	Halon 1301
	Halon 2402	Halon 2402
Annex B		
CFC	CFC-13	R-13
	CFC-111	R-111
	CFC-112	R-112
	CFC-211	R-211
	CFC-212	R-212
	CFC-213	R-213
	CFC-214	R-214
	CFC-215	R-215

	CFC-216	R-216
	CFC-217	R-217
	carbon tetrachloride	
	methyl chloroform	
	Annex C group I	
	HCFC-21	R-21
	HCFC-22	R-22
	HCFC-31	R-31
	HCFC-121	R-121
	HCFC-122	R-122
	HCFC-123	R-123 / C ₂ H ₂ F ₃ Cl ₂
	HCFC-123	R-123 / CHCl ₂ CF ₃
	HCFC-124	R-124 / C ₂ H ₂ F ₄ Cl
	HCFC-124	R-124 / CHFClCF ₃
	HCFC-131	R-131
	HCFC-132	R-132
	HCFC-133	R-133
	HCFC-141	R-141 / C ₂ H ₃ FCl ₂
	HCFC-141B	R-141B / CH ₃ CFCl ₂
	HCFC-142	R-142 / C ₂ H ₃ F ₂ Cl
	HCFC-142B	R-142B / CH ₃ CF ₂ Cl
	HCFC-151	R-151
	HCFC-221	R-221
	HCFC-222	R-222
	HCFC-223	R-223
	HCFC-224	R-224
	HCFC-225	R-225
	HCFC-225ca	R-225ca / CF ₃ CF ₂ CHCl ₂
	HCFC-225cb	R-225cb / CF ₂ ClCF ₂ CHClF
	HCFC-226	R-226

HCFC

HCFC-231	R-231
HCFC-232	R-232
HCFC-233	R-233
HCFC-234	R-234
HCFC-235	R-235
HCFC-241	R-241
HCFC-242	R-242
HCFC-243	R-243
HCFC-244	R-244
HCFC-251	R-251
HCFC-252	R-252
HCFC-253	R-253
HCFC-261	R-261
HCFC-262	R-262
HCFC-271	R-271

Annex C group II

CHBr ₂
CHF ₂ Br
HBFC-22B1
CH ₂ FBr
C ₂ HFBr ₄
C ₂ HF ₂ Br ₃
C ₂ HF ₃ Br ₂
C ₂ HF ₄ Br
C ₂ H ₂ FBr ₃
C ₂ H ₂ F ₂ Br ₂
C ₂ H ₂ F ₃ Br
C ₂ H ₃ FBr ₂
C ₂ H ₃ F ₂ Br
C ₂ H ₄ FBr

HBFC	C_3HFBr_6
	$C_3HF_2Br_5$
	$C_3HF_3Br_4$
	$C_3HF_4Br_3$
	$C_3HF_5Br_2$
	C_3HF_6Br
	$C_3H_2FBr_5$
	$C_3H_2F_2Br_4$
	$C_3H_2F_3Br_3$
	$C_3H_2F_4Br_2$
	$C_3H_2F_5Br$
	$C_3H_3FBr_4$
	$C_3H_3F_2Br_3$
	$C_3H_3F_3Br_2$
	$C_3H_3F_4Br$
	$C_3H_4FBr_3$
	$C_3H_4F_2Br_2$
	$C_3H_4F_3Br$
	$C_3H_5FBr_2$
	$C_3H_5F_2Br$
C_3H_6FBr	
Annex C Group III	
	CH_2BrCl
Annex E	
	methyl bromide
Annex F	
	HFC-134
	HFC-134a
	HFC-143
	HFC-245fa

HFC	HFC-365mfc
	HFC-227ea
	HFC-236cb
	HFC-236ea
	HFC-236fa
	HFC-245ca
	HFC-43-10mee
	HFC-32
	HFC-125
	HFC-143a
	HFC-41
	HFC-152
	HFC-152a
	Annex F Group II
HFC	HFC-23
All Blends are controlled (Most Common Blends)	
	R-401A
	R-404A
	R-407A
	R-407C
	R-407F
	R-410A
	R-417A
	R-422A
	R-438A
	R-444B
	R-446A
	R-448A
R-449A	

Blends

R-450A

R-452A

R-507A

R-508B

R-513A

R-406A

R-415B

R-423A

R-402B

R-1234yf

R-1234ze

R-453A

R-437A

R-438A

FE-36