



ANNEX I. Ketamines with no known legitimate uses

No.	Common Substance Name	Other / Alternative Substance Name(s) b	CAS No. Base ^c	Cas No. Salt (HCl) ^c	Int. Ctrl. ^d	InChIKey Base
1	3-Methoxyeticyclidine	N-Ethyl-1-(3-methoxyphenyl)cyclohexanamine; 2-(3-Methoxyphenyl)-2-(ethylamino)cyclohexane; 3-Methoxy-PCE	1364933-80-1	1797121-52-8		OFGOOZLOGUNDFS-UHFFFAOYSA-N
2	Methoxetamine	2-(3-Methoxyphenyl)-2-(ethylamino)cyclohexanone; Cyclohexanone, 2-(ethylamino)-2-(3-methoxyphenyl)-; 2-(Ethylamino)-2-(3-methoxyphenyl)cyclohexanone	1239943-76-0	1239908-48-5	1971/II	LPKTWLVVEGBNOOX-UHFFFAOYSA-N
3	3-Methoxyphencyclidine	1-[1-(3-Methoxyphenyl)cyclohexyl]piperidine; 1-(Piperidin-1-yl)-1-(3-methoxyphenyl)cyclohexane; 3-Methoxy-PCP	72242-03-6	91164-58-8	1971/II	BQQSZHHKGPXLN-UHFFFAOYSA-N
4	1-Phenylcyclohexanamine	1-Phenylcyclohexylamine; 1-Amino-1-phenylcyclohexane	2201-24-3	1934-1-0		RGZGRPPQZUQCR-UHFFFAOYSA-N
5	4-Methoxyphencyclidine	1-[1-(4-Methoxyphenyl)cyclohexyl]piperidine; 1-(Piperidin-1-yl)-1-(4-methoxyphenyl)cyclohexane; 4-Methoxy-PCP	2201-35-6	2185-93-5		MUZGGFNVLGUFU-UHFFFAOYSA-N
6	2-Methoxyketamine	2-(2-Methoxyphenyl)-2-(methylamino)cyclohexanone; 2-MeO-ketamine; 2-Methoxy-2-deschloroketamine; Methoxyketamine	7063-51-6	6728-62-7		OYAUVHORXFUVAJ-UHFFFAOYSA-N
7	N-Ethyl-ketamine	2-(2-Chlorophenyl)-N-(ethylamino)cyclohexanone; Ethketamine; N-Ethyl-norketamine; NENK; 2-Cl-2'-Oxo-PCE	1354634-10-8	-		ITBBBZIIFJMDU-UHFFFAOYSA-N
8	Benocyclidine	1-[1-(1-Benzothiophen-2-yl)cyclohexyl]piperidine; GK 13; Benzothiophenylcyclohexylpiperidine	112726-66-6	-		RGSVXQJPSWZOP-UHFFFAOYSA-N
9	4-Methoxyeticyclidine	N-Ethyl-1-(4-methoxyphenyl)-cyclohexanamine; 2-(4-Methoxyphenyl)-2-(ethylamino)cyclohexane	-	1933-15-9		AVQXYMGYZVAVCH-UHFFFAOYSA-N
10	4-Methylphencyclidine	1-[1-(4-Methylphenyl)cyclohexyl]-piperidine; 1-(1-p-Tolylcyclohexyl)piperidine	3883-17-8	1934-42-5		XPZHMMRWEBHHNI-UHFFFAOYSA-N



11	3-Hydroxyphencyclidine	3-(1-Piperidin-1-ylcyclohexyl)phenol; 1-[1(3-Hydroxyphenyl)-cyclohexyl]piperidine; 3-OH-PCP	79787-48-3	79295-51-5		AMSXTZUCNOKUEN-UHFFFAOYSA-N
12	Bromo-methoxetamine	2-(2-Bromo-5-methoxyphenyl)-2-(ethylamino)cyclohexan-1-one; 2-(2-Bromo,5-methoxyphenyl)-2-(ethylamino)cyclohexanone; 2-bromomethoxetamine	-	-		YNEMYNGTFPWRHN-UHFFFAOYSA-N
13	Deschloro-N-ethyl-ketamine	2-(Ethylamino)-2-phenylcyclohexan-1-one; 2-(ethylamino)-2-phenylcyclohexanone; Eticyclidone; 2-Oxo-PCE; 2-DCNEK; N-Ethyl-deschloroketamine	6740-82-5	4551-92-2		IDLSBAANXISGEI-UHFFFAOYSA-N
14	4-(1-(3-Methoxyphenyl)cyclohexyl)morpholine	4-(1-(3-Methoxyphenyl)cyclohexyl)morpholine	138873-80-0	-		BOGOEDFWPOXWQE-UHFFFAOYSA-N
15	2-Fluorodeschloroketamine	2-(2-Fluorophenyl)-2-(methylamino)cyclohexan-1-one; 2-(2-fluorophenyl)-2-(methylamino)cyclohexanone; Fluoroketamine; 2-Fl-2'-Oxo-PCM; Cyclohexanone, 2-(2-fluorophenyl)-2-(methylamino)-;	111982-50-4	111982-49-1		PHFAGYYTDLITB-UHFFFAOYSA-N
16	Methoxmetamine	2-(3-Methoxyphenyl)-2-(methylamino)cyclohexan-1-one; 2-(3-methoxyphenyl)-2-(methylamino)cyclohexanone; 3-Methoxy-deschloroketamine; 3-MeO-2'-Oxo-PCM; 3-Methoxy-2-oxo-PCM	-	1781829-56-8		ZGQWDAOLJNAADS-UHFFFAOYSA-N
17	4-((1-(3-methoxyphenyl)cyclohexyl)methyl)morpholine	4-((1-(3-Methoxyphenyl)cyclohexyl)methyl)morpholine	138873-80-0	-		KVDDTOKOCUZIFC-UHFFFAOYSA-N
18	3-Hydroxyeticyclidine	3-(1-(Ethylamino)cyclohexyl)phenol; 3-Hydroxy-PCE; 3-OH-PCE	2243815-20-3			MIKNPNLBFHVMKK-UHFFFAOYSA-N
19	2-Methoxyphenidine	1-[1-(2-Methoxyphenyl)-2-phenylethyl]piperidine; methoxydiphenine; 2-MeO-diphenidine; 1-(2-Methoxyphenyl)-2-phenyl-1-(piperidine-1-yl)ethane; 2-Methyl-MAF	127529-46-8	-		QXXCUXIRBHSITD-UHFFFAOYSA-N
20	Deschloroketamine	2-(Methylamino)-2-phenyl-cyclohexan-1-one; 2-(methylamino)-2-phenyl-cyclohexanone; DCK; 2'-Oxo-pcm	-	4631-27-0		ZAGBSZSITDFFAF-UHFFFAOYSA-N
21	Methoxypropamine	2-(3-Methoxyphenyl)-2-(propylamino)cyclohexanone; 2-(3-methoxyphenyl)-2-(propylamino)cyclohexan-1-one; 3-Methoxy-2-oxo-PCPr; 3-MeO-2'-Oxo-PCPr; methoxypropamine	-	-		AAVOSBAXDRASAH-UHFFFAOYSA-N



22	3-Chloro-PCP	1-[1-(3-Chlorophenyl)cyclohexyl]piperidine; 3-Chloro Phencyclidine		1934-43-6		HUHBTESMMFLCAN-UHFFFAOYSA-N
23	3-Fluoro-PCP	1-[1-(3-Fluorophenyl)cyclohexyl]piperidine; 3-Fluoro phencyclidine; 3-Fluoro PCP	89156-99-0	1049718-37-7		PFPLGKFWWBXTNP-UHFFFAOYSA-N
24	3-Methyl-PCP	1-[1-(3-Methylphenyl)cyclohexyl]piperidine				BMFKUCGCXMDGBK-UHFFFAOYSA-N
25	Methoxisopropamine	2-(Isopropylamino)-2-(3-methoxyphenyl)cyclohexanone; Methoxipropamine; MXiPR				FTQIVDGNXPEKP-UHFFFAOYSA-N
26	Hydroxetamine	2-(Ethylamino)-2-(3-hydroxyphenyl)cyclohexan-1-one; 3-Hydroxy-2'-oxo-eticyclidine; 2-(ethylamino)-2-(3-hydroxyphenyl)-cyclohexanone; 3-HO-2'-Oxo-PCE; O-Desmethylmethoxetamine	1620054-73-0			CQERUISORROCGH-UHFFFAOYSA-N
27	Deoxymethoxetamine	2-(Ethylamino)-2-(3-methylphenyl)cyclohexan-1-one; 3D-MXE; 3-Me-2'-oxo-PCE; 3-methyl-2'-oxo-eticyclidine; 2-(Ethylamino)-2-(3-methylphenyl)cyclohexanone				WIMLPZYJQNQLE-UHFFFAOYSA-N
28	3-Methyl-PCPy	1-[1-(3-Methylphenyl)cyclohexyl]pyrrolidine; 3-methyl Rolicyclidine				JZVMREFYFTZXGN-UHFFFAOYSA-N
29	Bromoketamine	2-(2-bromophenyl)-2-(methylamino)-cyclohexanone; 2-(2-bromophenyl)-2-(methylamino)cyclohexan-1-one; 2-Bromo deschloroketamine; 2(o-bromophenyl)-2-methylaminocyclohexanone; 2-Br-2'-Oxo-PCM	120807-70-7			XPMMBFIMXKSQIQ-UHFFFAOYSA-N
30	1-(2-Phenyladamantan-2-yl)piperidine	1-(2-Phenyladamantan-2-yl)piperidine; P2AP; Phenyladamantylpiperidine; 1-(2-Phenyltricyclo(3.3.1.1(sup 3,7))dec-2-yl)piperidine	72241-99-7			KBLCCZWZKWPYJM-UHFFFAOYSA-N
31	3-Fluorodeschloroketamine	2-(3-Fluorophenyl)-2-(methylamino)cyclohexan-1-one; 2-(3-fluorophenyl)-2-(methylamino)cyclohexanone; Fluoroketamine; 3-Fl-2'-Oxo-PCM				SLRWGPTWJAJHDF-UHFFFAOYSA-N
32	2-(2-Chlorophenyl)-2-nitrocyclohexanone*	2-(2-Chlorophenyl)-2-nitrocyclohexanone; ketocloamazone; 2-(2-chlorophenyl)-2-nitrocyclohexan-1-one; Cyclohexanone, 2-(2-chlorophenyl)-2-nitro-	2079878-75-2			OBRSWNBWMZPYHU-UHFFFAOYSA-N



33	2'-fluoro-2-oxo-PCE	2-(ethylamino)-2-(2-fluorophenyl)-cyclohexanone; 2-fluoro-N-ethylnordeschloroketamine; 2F-NENDCK; CanKet; [2-(2-fluorophenyl)-2-(ethylamino) cyclohexan-1-one; 2-fluoro-2-oxo PCE				RTXKYSLDFKUESF-UHFFFAOYSA-N
34	Fluorexetamine	3'-Fluoro-2-oxo-PCE; 2-(ethylamino)-2-(3-fluorophenyl)cyclohexan-1-one				FCETYWCLCUZFI-UHFFFAOYSA-N
35	Norketamine*	Cyclohexanone, 2-amino-2-(2-chlorophenyl)-; 2-Amino-2-(2-chlorophenyl)cyclohexanone; N-Demethylketamine; (±)-Norketamine; 2-Amino-2-(2-chlorophenyl)cyclohexan-1-one; 2-(o-Chlorophenyl)-2-aminocyclohexanone; 2-Amino-2-(o-chlorophenyl)cyclohexanone	35211-10-0	79499-59-5		BEQZHFIKTBVCAU-UHFFFAOYSA-N
36	3-MeO-PCPy	1-(1-(3-methoxyphenyl)cyclohexyl)pyrrolidine; 3-methoxyrolicyclidine				NLTZYGQREVLGBK-UHFFFAOYSA-N
37	4-Fluorodeschloroketamine	2-(4-Fluorophenyl)-2-(methylamino)cyclohexan-1-one; 2-(4-fluorophenyl)-2-(methylamino)cyclohexanone; Fluoroketamine; 4-Fl-2'-Oxo-PCM; GM-1020; Blixeprodil				GLHWPYBETIKGHM-UHFFFAOYSA-N
38	Rolicyclidine	1-(1-phenylcyclohexyl)pyrrolidine; Pyrrolidine, 1-(1-phenylcyclohexyl)-; PHP	2201-39-0		1971/I	FYOWWXMGDATDQY-UHFFFAOYSA-N
39	Tenocyclidine	Piperidine, 1-[1-(2-thienyl)cyclohexyl]-; 1-[1-(2-Thienyl)cyclohexyl]piperidine; N-[1-(2-Thienyl)cyclohexyl]piperidine; Thienylphencyclidine; GK 0; Thienylcyclidine	21500-98-1	1867-65-8	1971/I	JUZZEWSCNBCFRL-UHFFFAOYSA-N
40	2-Oxo Phencyclidine	2-phenyl-2-(1-piperidinyl)-cyclohexanone				NVKXODIIEPKREY-UHFFFAOYSA-N
41	4-Hydroxy methyl Phencyclidine	(4-(1-(piperidin-1-yl)cyclohexyl)phenyl)methanol				
42	3-Methoxy-2-oxo Phencyclidine	2-(3-methoxyphenyl)-2-(piperidin-1-yl)cyclohexan-1-one				



43	Eticyclidine	Cyclohexanamine, N-ethyl-1-phenyl-; Cyclohexylamine, N-ethyl-1-phenyl-; N-Ethyl-1-phenylcyclohexanamine; N-Ethyl-1-phenylcyclohexylamine; Ethylphencyclidine; NSC 231651; Cyclohexamine; PCPEt	2201-15-2		1971/I	IFYLVUHLOOCYBG-UHFFFAOYSA-N
44	3,4-Methylenedioxy Phencyclidine	1-[1-(1,3-benzodioxol-5-yl)cyclohexyl]piperidine;				ANUGFLCSICVCSB-UHFFFAOYSA-N
45	N-(2-ethoxyethyl)-1-phenylcyclohexanamine	N-(1-phenylcyclohexyl)-2-ethoxyethanamine	1072895-05-6	1798021-89-2		PRQVCBDFWYTXDD-UHFFFAOYSA-N
46	Propylphencyclidine	Cyclohexanamine, 1-phenyl-N-propyl-; Cyclohexylamine, 1-phenyl-N-propyl-; 1-Phenyl-N-propylcyclohexanamine; N-Propyl-1-phenylcyclohexylamine; N-(1-Phenylcyclohexyl)-1-propanamine; 1-Phenyl-N-propylcyclohexan-1-amine;	18949-81-0	1934-55-0		KHXNTQRMMGXPQW-UHFFFAOYSA-N
47	N-(3-methoxypropyl)-1-phenylcyclohexanamine	Cyclohexanamine, N-(3-methoxypropyl)-1-phenyl-; N-(3-methoxypropyl)-1-phenylcyclohexan-1-amine	2201-58-3	1934-63-0		OWOACIUDBGLMN-UHFFFAOYSA-N
48	4-Hydroxyphencyclidine	4-Piperidinol, 1-(1-phenylcyclohexyl)-; 1-(1-Phenylcyclohexyl)-4-piperidinol; 4-Hydroxy-1-(1-phenylcyclohexyl)piperidine; 1-(1-Phenylcyclohexyl)-4-hydroxypiperidine; 1-(1-Phenylcyclohexyl)piperidine-4-ol; N-(1-Phenylcyclohexyl)-4-hydroxypiperidine; PHP; NSC 170516;	60232-85-1			SLUMSLWGPLFKGY-UHFFFAOYSA-N
49	Phencyclidine	1-(1-Phenylcyclohexyl)piperidine; Piperidine, 1-(1-phenylcyclohexyl)-; HOG; Cl 395; Angel dust; MeSH ID: D010622; MCV 4158; NIH 9580; NSC 40902;	77-10-1	956-90-1	1971/II	JTJMJGYZQZDUJJ-UHFFFAOYSA-N
50	Deschloro-N-Propyl-norketamine	2-phenyl-2-(propylamino)-cyclohexanone; DCNPrNK; O-PCPr; 2-Oxo-PCPr		7015-54-5		ZMEVRCIPFIEDEN-UHFFFAOYSA-N
51	Deschloro-N-Isopropyl-norketamine	2-[(1-methylethyl)amino]-2-phenyl-cyclohexanone; 2-Oxo-PCiPr		7015-56-7		WNABJQWOGGCFLO-UHFFFAOYSA-N



52	N-Boc Ketamine*	N-[1-(2-chlorophenyl)-2-oxocyclohexyl]-N-methyl-carbamic acid, 1-dimethylethyl ester; 1,1-Dimethylethyl N-[1-(2-chlorophenyl)-2-oxocyclohexyl]-N-methylcarbamate; Carbamic acid, N-[1-(2-chlorophenyl)-2-oxocyclohexyl]-N-methyl-, 1,1-dimethylethyl ester	1461707-29-8			XWFIPKJXHxVWDZ-UHFFFAOYSA-N
53	N-Boc Norketamine*	N-[1-(2-chlorophenyl)-2-oxocyclohexyl]-carbamic acid, 1,1-dimethylethyl ester; tert-butyl N-[1-(2-chlorophenyl)-2-oxocyclohexyl]carbamate	2177263-88-4			VRZJVQFAJVIUAX-UHFFFAOYSA-N
54	2-Fluoro Deschloronorketamine	2-amino-2-(2-fluorophenyl)-cyclohexanone; 2-FDCNK	1956327-93-7			QAAHWOFISODWNS-UHFFFAOYSA-N
55	Propylketamine	N-Propylnorketamine; 2-(2-chlorophenyl)-2-(propylamino)cyclohexan-1-one		2749326-65-4		ALSYVNZHMWPPNW-UHFFFAOYSA-N
56	Tilprotamine	2-(Propylamino)-2-(thiophen-2-yl)cyclohexan-1-one				WOAXHMAUVQHCOE-UHFFFAOYSA-N
57	2-fluoro-2-oxo-PCPr	2-(2-fluorophenyl)-2-(propylamino)cyclohexan-1-one; 2-FXPr; 2-F-2'-Oxo-PCPr; 2-(propylamino)-2-(2-fluorophenyl)cyclohexan-1-one; 2-fluoro-N-propylnordeschloroketamine; 2F-NPrNDCK;				GUVTVQJKSDZKEV-UHFFFAOYSA-N
58	TCPy	1-[1-(Thiophen-2-yl)cyclohexyl]pyrrolidine;	22912-13-6			XLQOCWQLDNWQDM-UHFFFAOYSA-N
59	Tilmetamine	2-(Methylamino)-2-(thiophen-2-yl)cyclohexan-1-one				UIKFZAUDYKWKGI-UHFFFAOYSA-N
60	3-Methyl-PCE	N-Ethyl-1-(3-methylphenyl)cyclohexanamine	2201-64-1			USOQQRZXGGZQGO-UHFFFAOYSA-N

a - No known uses is defined as one or more Governments or regional or international organizations having had reviewed the substance and found no legitimate use. Unknown refers to substances for which the Board is unaware of any Governments or regional or international organizations having reviewed or identified any legitimate use for the substance.

b - Different chemical names are separated by a semi-colon (;).

c - Chemical Abstract Services (CAS) registry numbers may not currently be available for all substances. CAS numbers are unique for

d - International control refers to the appropriate United Nations Conventions and schedule which the substance is listed. Not all substances under international control have legitimate uses.

* Denotes a possible precursor of a ketamine or PCP-related substance