



## ANNEX I. Non-fentanyl opioids and related new psychoactive substances with no currently known legitimate uses

No	Uses <sup>b</sup>	Common Substance Names*	Other / Alternative Substance Name(s) <sup>c</sup>	Abbreviations	CAS No. Base <sup>d</sup>	CAS No. Salt (HCl unless specified) <sup>d</sup>	Intl Ctrl. <sup>e</sup>	No
1	Unknown	Cinnamylpiperazines (AP series)	2-Methyl-AP-237	1-[2-methyl-4-[(E)-3-phenylprop-2-enyl]piperazin-1-yl]butan-1-one; 1-(4-Cinnamyl-2-methylpiperazin-1-yl)butan-1-one; 2-methyl bucinnazine; 2-Methyl-1-(1-oxobutyl)-4-(3-phenyl-2-propenyl)piperazine; N-Butyryl-N'-cinnamyl-2-methylpiperazine; 1-(2-methyl-4-(3-phenyl-2-propen-1-yl)-1-piperazinyl)-1-butanone		98608-61-8	98608-61-8	1961/I
2	Unknown	Cinnamylpiperazines (AP series)	AP-238	1-[2,6-dimethyl-4-[(E)-3-phenylprop-2-enyl]piperazin-1-yl]propan-1-one; 1-(4-cinnamyl-2,6-dimethylpiperazin-1-yl)propan-1-one; 1-Propionyl-4-cinnamyl-cis-2,6-dimethylpiperazine; 1-(2,6-dimethyl-4-(3-phenyl-2-propen-1-yl)-1-piperazinyl)-1-propanone		4204-01-7		
3	Unknown	Cinnamylpiperazines (AP series)	para-Methyl-AP-237	1-[4-[(E)-3-(p-tolyl)allyl]piperazin-1-yl]butan-1-one; para-Methyl bucinnazine; 1-(4-(3-(4-methylphenyl)-2-propen-1-yl)-1-piperazinyl)-1-butanone		-	2749048-12-0	
4	Unknown	Kratom Related Substance	7-hydroxy Speciogynine	( $\alpha$ E,2S,3R,7aS,12bS)-3-ethyl-1,2,3,4,6,7,7a,12b-octahydro-7a-hydroxy-8-methoxy- $\alpha$ -(methoxymethylene)-indolo[2,3-a]quinolizine-2-acetic acid, methyl ester		2459217-54-8		
5	Unknown	Kratom Related Substance	7-Hydroxymitragynine	Indolo[2,3-a]quinolizine-2-acetic acid, 3-ethyl-1,2,3,4,6,7,7a,12b-octahydro-7a-hydroxy-8-methoxy- $\alpha$ -(methoxymethylene)-, methyl ester, ( $\alpha$ E,2S,3S,7aS,12bS)-; Corynan-16-carboxylic acid, 1,2,16,17-tetradehydro-2,7-dihydro-7-hydroxy-9,17-dimethoxy-, methyl ester, (7 $\alpha$ ,16E,20 $\beta$ )-; 9-Methoxycorynantheidine hydroxyindolenine; 7 $\alpha$ -Hydroxy-7H-mitragynine; Mitragynine hydroxyindolenine; 7-OH-mitragynine; 7-HMG	7-OHM	174418-82-7		



6	Unknown	Kratom Related Substance	dihydro-7-hydroxy Mitragynine	( $\alpha$ E,2S,3S,7aS,12aR,12bS)-3-ethyl-1,2,3,4,6,7,7a,12,12a,12b-decahydro-7a-hydroxy-8-methoxy- $\alpha$ -(methoxymethylene)-indolo[2,3-a]quinolizine-2-acetic acid, methyl ester; MGM-15; methyl (E)-2-[(2S,3S,7aS,12aR,12bS)-3-ethyl-7a-hydroxy-8-methoxy-2,3,4,6,7,12,12a,12b-octahydro-1H-indolo[2,3-a]quinolizin-2-yl]-3-methoxyprop-2-enoate;	MGM-15	1158901-38-2		
7	Unknown	Kratom Related Substance	Mitragynine Pseudoindoxyl	( $\alpha$ E,6'S,7'S,8'aS)-6'-ethyl-1,2',3,3',6',7',8',8'a-octahydro-4-methoxy- $\alpha$ -(methoxymethylene)-3-oxo-spiro[2H-indole-2,1'(5'H)-indolizine]-7'-acetic acid, methyl ester; SPIRO(2H-INDOLE-2,1'(5'H)-INDOLIZINE)-7'-ACETIC ACID, 6'-ETHYL-1,2',3,3',6',7',8',8'A-OCTAHYDRO-4-METHOXY-.ALPHA.-(METHOXYMETHYLENE)-3-OXO-, METHYL ESTER, (.ALPHA.E,1'S,6'S,7'S,8'AS)-		2035457-43-1		
8	Unknown	Kratom Related Substance	MGM-16	methyl (E)-2-[(2S,3S,7aS,12aR,12bS)-3-ethyl-9-fluoro-7a-hydroxy-8-methoxy-2,3,4,6,7,12,12a,12b-octahydro-1H-indolo[2,3-a]quinolizin-2-yl]-3-methoxyprop-2-enoate;	MGM-16			
9	Unknown	Nitazene	2-Fluoro desethoxyetonitazene	N,N-diethyl-2-(2-(2-fluorobenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine; 2-fluonitazene; flunitazene ortho fluoro isomer; N,N-diethyl-2-[2-[(2-fluorophenyl)methyl]-5-nitro-benzimidazol-1-yl]ethanamine				
10	Unknown	Nitazene	3-Fluoro desethoxyetonitazene	N,N-diethyl-2-(2-(3-fluorobenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine; 3-fluonitazene; flunitazene meta fluoro isomer; N,N-diethyl-2-[2-[(3-fluorophenyl)methyl]-5-nitro-benzimidazol-1-yl]ethanamine; 3'-fluoro Nitazene				
11	Unknown	Nitazene	5-Aminoisotonitazene	1-(2-(diethylamino)ethyl)-2-(4-isopropoxybenzyl)-1H-benzo[d]imidazol-5-amine; N,N-diethyl-2-(2-(4-isopropoxybenzyl)-5-amino-1H-benzo[d]imidazol-1-yl)ethan-1-amine; N,N-diethyl-2-[5-nitro-2-[(4-propan-2-yloxyphenyl)methyl]benzimidazol-1-yl]ethanamine	Isotonitazene metabolite	2732926-25-7		



12	Unknown	Nitazene	5-cyano Isotodesnitazene	1-(2-(diethylamino)ethyl)-2-(4-isopropoxybenzyl)-1H-benzo[d]imidazole-5-carbonitrile; Isotocyanazene; Isotocyanozene				
13	Unknown	Nitazene	5-methyl Etodesnitazene	Etomethazene; 2-(2-(4-ethoxybenzyl)-5-methyl-1H-benzo[d]imidazol-1-yl)-N,N-diethylethanamine				
14	Unknown	Nitazene	Butodesnitazene	N,N-Diethyl-2-{2-[(4-butoxyphenyl)methyl]-1H-benzimidazol-1-yl}ethan-1-amine; 2-(2-(4-butoxybenzyl)-1H-benzo[d]imidazol-1-yl)-N,N-diethylethan-1-amine				
15	Unknown	Nitazene	Butonitazene	N,N-Diethyl-5-nitro-2-[(4-butoxyphenyl)methyl]-1H-benzimidazole-1-ethanamine; 2-(2-(4-butoxybenzyl)-5-nitro-1H-benzimidazol-1-yl)-N,N-diethylethan-1-amine; Butoxynitazene		95810-54-1	118951-34-1	1961/I
16	Unknown	Nitazene	Clonitazene	2-(2-(4-chlorobenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)-N,N-diethylethanamine; 2-[(4-chlorophenyl)methyl]-N,N-diethyl-5-nitro-1H-benzimidazole-1-ethanamine		3861-76-5		1961/I
17	Unknown	Nitazene	Desnitroclonitazene	2-(2-(4-chlorobenzyl)-1H-benzo[d]imidazol-1-yl)-N,N-diethylethan-1-amine; Clodesnitazene; 2-[2-[(4-chlorophenyl)methyl]benzimidazol-1-yl]-N,N-diethylethanamine				



18	Unknown	Nitazene	Ethylene Etonitazene	2-(2-(4-ethoxyphenethyl)-5-nitro-1H-benzo[d]imidazol-1-yl)-N,N-diethylethan-1-amine; 2-[2-(4-ethoxyphenyl)ethyl]-5-nitrobenzimidazol-1-yl]-N,N-diethylethanamine;				
19	Unknown	Nitazene	Ethyleneoxynitazene	2-(2-((2,3-dihydrobenzofuran-5-yl)methyl)-5-nitro-1H-benzo[d]imidazol-1-yl)-N,N-diethylethan-1-amine; 3'-desoxy-3',4'-Methylenedioxyntazene; Tetrahydrofuranitazene				
20	Unknown	Nitazene	Etodesnitazene	2-[2-[(4-Ethoxyphenyl)methyl]benzimidazol-1-yl]-N,N-diethylethanamine; N,N-diethyl-2-[[[4-ethoxyphenyl)methyl]-1H-benzimidazol-1-yl]-ethan-1-amine; Desnitroetonitazene; Etazone; Ethazen; 2-(2-(4-Ethoxybenzyl)-1H-benzo[d]imidazol-1-yl)-N,N-diethylethan-1-amine; 2-(2-(4-ethoxybenzyl)-1H-benzimidazol-1-yl)-N,N-diethylethan-1-amine	Etazene	14030-76-3	1071546-16-1; 2598176-60-2 (2HCl)	1961/I
21	No Known Use	Nitazene	Etonitazene	2-[(4-ethoxyphenyl)methyl]-N,N-diethyl-5-nitro-1H-benzimidazole-1-ethanamine; 1-[(2-Diethylamino)ethyl]-2-(p-ethoxybenzyl)-5-nitrobenzimidazole; 2-[2-(4-Ethoxybenzyl)-5-nitro-1H-benzimidazol-1-yl]-N,N-diethylethanamine		911-65-9		1961/I
22	No known use	Nitazene	Etonitazepipne	2-[(4-ethoxyphenyl)methyl]-5-nitro-1-[2-(1-piperidyl)ethyl]benzimidazole; 2-(4-Ethoxybenzyl)-5-nitro-1-(2-(piperidin-1-yl)ethyl)-1H-benzimidazole; 2-(4-ethoxybenzyl)-5-nitro-1-(2-(piperidin-1-yl)ethyl)-1H-benzo[d]imidazole; N-Piperidinyl etonitazene; N-Piperidyl etonitazene		734496-28-7	101035-28-3	1961/I
23	Unknown	Nitazene	Etonitazepyne	2-(4-Ethoxybenzyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzimidazole; N-Pyrrolidino etonitazene		2785346-75-8		1961/I

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24	Unknown	Nitazene	Fluetonitazene	4'-(2-fluoroethoxy) Nitazene; fluoro-etonitazene; N,N-diethyl-2-(2-(4-(2-fluoroethoxy)benzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine				
25	Unknown	Nitazene	Fluonitazene	N,N-diethyl-2-[2-[(4-fluorophenyl)methyl]-5-nitro-benzimidazol-1-yl]ethanamine; 1-(2-Diethylaminoethyl)-2-(p-fluorobenzyl)-5-nitro-1H-benzimidazole; flunitazene; 4-fluoro desethoxyetonitazene		2249-36-7	2728-91-8; 2263-62-9 (sulfate); 856635-64-8 (methanesulfonate)	
26	Unknown	Nitazene	Isobutonitazene	N,N-diethyl-2-[2-[(4-isobutoxyphenyl)methyl]-5-nitro-benzimidazol-1-yl]ethanamine;				
27	Unknown	Nitazene	Isotodesnitazene	N,N-diethyl-2-[[4-(1-methylethoxy)phenyl]methyl]-1H-benzimidazole-1-ethanamine; Desnitroisotonitazene; N,N-diethyl-2-(2-(4-isopropoxybenzyl)-1H-benzo[d]imidazol-1-yl)ethanamine				
28	No Known Use	Nitazene	Isotonitazene	N,N-diethyl-2-(2-(4-isopropoxybenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine; N,N-diethyl-2-[5-nitro-2-[(4-propan-2-yloxyphenyl)methyl]benzimidazol-1-yl]ethanamine; N,N-diethyl-2-(2-(4-isopropoxybenzyl)-5-nitro-1H-benzimidazol-1-yl)ethan-1-amine		14188-81-9	119276-00-5	1961/I
29	Unknown	Nitazene	Menitazene	N,N-diethyl-2-[(4-methylphenyl)methyl]-5-nitro-1H-benzimidazole-1-ethanamine, N,N-diethyl-2-(2-(4-methylbenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethanamine				
30	Unknown	Nitazene	Methylenedioxyinitazene	3',4'-Methylenedioxyinitazene; 2-[2-(1,3-benzodioxol-5-ylmethyl)-5-nitro-benzimidazol-1-yl]-N,N-diethyl-ethanamine	Methylenedioxyinitazene			



31	Unknown	Nitazene	Metodesnitazene	N,N-diethyl-2-[2-[(4-methoxyphenyl)methyl]benzimidazol-1-yl]ethanamine; 1-(2-Diethylaminoethyl)-2-(p-methoxybenzyl)benzimidazole; NSC659139		14030-77-4	1071546-40-1	
32	Unknown	Nitazene	Metonitazene	N,N-diethyl-2-[2-[(4-methoxyphenyl)methyl]-5-nitrobenzimidazol-1-yl]ethanamine; 1-(2-Diethylaminoethyl)-2-(p-methoxybenzyl)-5-nitro-1H-benzimidazole; N,N-diethyl-2-(2-(4-methoxybenzyl)-5-nitro-1H-benzimidazol-1-yl)ethan-1-amine		14680-51-4		1961/I
33	Unknown	Nitazene	N,N-Dimethylamino Etonitazene	2-(2-(4-ethoxybenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)-N,N-dimethylethan-1-amine; N,N-Dimethylaminoetonitazene; N,N-Dimethyl Etonitazene; N,N-Dimethyletonitazene; 2-[2-[(4-ethoxyphenyl)methyl]-5nitrobenzimidazol-1-yl]-N,N-dimethylethanamine				
34	Unknown	Nitazene	N-Desethyl Etonitazene	2-[2-[(4-ethoxyphenyl)methyl]-5-nitro-benzimidazol-1-yl]-N-ethyl-ethanamine; Norettonitazene	NDE	2732926-26-8		
35	No known use	Nitazene	N-Desethyl isotonitazene	N-ethyl-2-(2-(4-isopropoxybenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine			2732926-24-6	1961/I
36	Unknown	Nitazene	N-desethyl metonitazene	N-ethyl-2-(2-(4-methoxybenzyl)-5-nitro-1H-benzo[d]imidazol-1-yl)ethan-1-amine				
37	Unknown	Nitazene	N-Desethyl Protonitazene	N-ethyl-2-[5-nitro-2-[(4-propoxyphenyl)methyl]benzimidazol-1-yl]ethanamine; NDP	NDP			

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38	Unknown	Nitazene	N-PiperidinyI Isotonitazene	Isotonitazepipne; 2-(4-isopropoxybenzyl)-5-nitro-1-(2-(piperidin-1-yl)ethyl)-1H-benzo[d]imidazole; 2-(4-isopropoxybenzyl)-5-nitro-1-(2-(piperidin-1-yl)ethyl)-1H-benzo[d]imidazole				
39	Unknown	Nitazene	N-pyrrolidino butonitazene	2-(4-butoxybenzyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole; Butonitazepyne				
40	Unknown	Nitazene	N-pyrrolidino ethylene isotonitazene	2-(4-isopropoxyphenethyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole; Ethylene isotonitazepyne; Ethylene N-pyrrolidino isotonitazene				
41	Unknown	Nitazene	N-Pyrrolidino Isotonitazene	Isotonitazepyne; 2-(4-isopropoxybenzyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole; 2-(4-isopropoxybenzyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole				
42	Unknown	Nitazene	N-Pyrrolidino metodesnitazene	2-[(4-methoxyphenyl)methyl]-1-(2-pyrrolidin-1-ylethyl)benzimidazole;				
43	No known use	Nitazene	N-Pyrrolidino Metonitazene	Metonitazepyne; 2-(4-methoxybenzyl)-5-nitro-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole; 2-[(4-methoxyphenyl)methyl]-5-nitro-1-(2-pyrrolidin-1-ylethyl)benzimidazole				1961/I
44	No Known Use	Nitazene	N-Pyrrolidino Protonitazene	Protonitazepyne; Protonitazepine; 5-nitro-2-(4-propoxybenzyl)-1-(2-(pyrrolidin-1-yl)ethyl)-1H-benzo[d]imidazole		3038401-95-2		1961/I



45	Unknown	Nitazene	para-Hydroxynitazene	4-((1-(2-(Diethylamino)ethyl)-5-nitro-1H-benzo[d]imidazol-2-yl)methyl) phenol; 4-Hydroxynitazene; 4-[[1-[2-(diethylamino)ethyl]-5-nitrobenzimidazol-2-yl]methyl]phenol; 4'-Hydroxynitazene; O-desalkyl Isotonitazene		94758-81-3		
46	Unknown	Nitazene	Protodesnitazene	N,N-diethyl-2-[(4-propoxyphenyl)methyl]-1H-benzimidazole-1-ethanamine				
47	Unknown	Nitazene	Protonitazene	N,N-Diethyl-5-nitro-2-[(4-propoxyphenyl)methyl]-1H-benzimidazole-1-ethanamine; Pronitazene; Propoxynitazene		95958-84-2	119276-01-6	1961/I
48	Unknown	Nitazene	Fluetonitazepyne	N-pyrrolidino fluetonitazene; N-Pyrrolidino-4'-(2-fluoroethoxy) Nitazene; 2-[[4-(2-fluoroethoxy)phenyl]methyl]-5-nitro-1-(2-pyrrolidin-1-ylethyl)benzimidazole;				
49	Unknown	Orphine	5,6-Dichloro Brorphine	3-[1-[1-(4-bromophenyl)ethyl]-4-piperidyl]-5,6-dichloro-1H-benzimidazol-2-one; SR-14968	SR-14968	2133455-40-8		



50	Unknown	Orphine	5,6-Dichloro Desmethylchlorphine	SR 17018; SR-17018; 5,6-Dichlorodesmethylchlorphine; 5,6-dichloro-3-[1-[(4-chlorophenyl)methyl]-4-piperidyl]-1H-benzimidazol-2-one	SR-17018	2134602-45-0		
51	Unknown	Orphine	Brorphine	3-[1-[1-(4-bromophenyl)ethyl]-4-piperidyl]-1H-benzimidazol-2-one; 1-(1-(1-(4-bromophenyl)ethyl)piperidin-4-yl)-1,3-dihydro-2H-benzimidazol-2-one; 1-(1-(1-(4-bromophenyl)ethyl)piperidin-4-yl)-1,3-dihydro-2H-benzof[ <i>d</i> ]imidazol-2-one		2244737-98-0		1961/I
52	Unknown	Orphine	Chlorphine	1-[1-[1-(4-chlorophenyl)ethyl]piperidin-4-yl]-1,3-dihydro-2H-benzimidazol-2-one; 1-[1-[1-(4-chlorophenyl)ethyl]piperidin-4-yl]-2,3-dihydro-1H-1,3-benzodiazol-2-one; 3-[1-[1-(4-chlorophenyl)ethyl]piperidin-4-yl]-1H-benzimidazol-2-one; 1-[1-[1-(4-chlorophenyl)ethyl]-4-piperidyl]-1,3-dihydro-2H-benzimidazol-2-one		6440-26-2		
53	Unknown	Orphine	Cychlorphine	N-Propionitrile Chlorophine; Cychlorphine; 3-[3-[1-[1-(4-chlorophenyl)ethyl]-4-piperidyl]-2-oxo-benzimidazol-1-yl]propanenitrile	Cychlorphine		16145-71-4	



54	Unknown	Orphine	Etodezitramide	1,3-dihydro-1-[1-(4-oxo-3,3-diphenylhexyl)-4-piperidinyl]-2H-benzimidazol-2-one; NSC 167729; R-4837; 3-[1-(4-oxo-3,3-diphenylhexyl)piperidin-4-yl]-1H-benzimidazol-2-one		59708-47-3		
55	Unknown	Orphine	Etospirotramide	8-(4-oxo-3,3-diphenylhexyl)-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one; R-5260		1109-69-9		
56	Unknown	Orphine	Fluorphine	1-[1-[1-(4-fluorophenyl)ethyl]-4-piperidinyl]-1,3-dihydro-2H-benzimidazol-2-one; 3-[1-[1-(4-fluorophenyl)ethyl]piperidin-4-yl]-1H-benzimidazol-2-one		6440-42-2		
57	Unknown	Orphine	Iodorphine	3-[1-[1-(4-iodophenyl)ethyl]piperidin-4-yl]-1H-benzimidazol-2-one				
58	Unknown	Orphine	Orphine	1-(1-(1-Phenylethyl)piperidin-4-yl)-1H-benzo[d]imidazol-2(3H)-one; 1-[1-(1-phenyl-ethyl)-piperidin-4-yl]-1,3-dihydro-benzimidazol-2-one; 1-[1-(1-phenylethyl)piperidin-4-yl]-2,3-dihydro-1H-1,3-benzodiazol-2-one; 3-[1-[1-phenylethyl]piperidin-4-yl]-1H-benzimidazol-2-one; 1,3-dihydro-1-[1-(1-phenylethyl)-4-piperidinyl]-imidazol-2(3H)-one-2H-benzimidazol-2-one		59708-49-5		
59	Unknown	Orphine	Spirobrorphine	8-(1-(4-bromophenyl)ethyl)-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one, SPB				
60	Unknown	Orphine	Spirochlorphine	8-[1-(4-chlorophenyl)ethyl]-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one; R-6890; R6890;		3222-88-6		



61	Unknown	Other	W-15*	4-chloro-N-[1-(2-phenylethyl)-2-piperidinylidene]benzenesulfonamide; 4-Chloro-N-(1-phenethylpiperidin-2-ylidene)benzenesulfonamide; 1-Phenylethylpiperidylidene-2-(4-chlorophenyl)sulfonamide		93100-99-3		
62	Unknown	Other	W-18*	(Z)-4-Chloro-N-(1-(4-nitrophenethyl)piperidin-2-ylidene)benzenesulfonamide; 4-chloro-N-[1-[2-(4-nitrophenyl)ethyl]-2-piperidinylidene]benzenesulfonamide; 1-(4-Nitrophenylethyl)piperidylidene-2-(4-chlorophenyl)sulfonamide	W-18	93101-02-1		
63	Unknown	Other	W-19*	(Z)-N-(1-(4-aminophenethyl)piperidin-2-ylidene)-4-chlorobenzenesulfonamide; N-(1-(4-aminophenethyl)piperidin-2-ylidene)-4-chlorobenzenesulfonamide	W-18 metabolite			
64	Unknown	Other Opioids	(2-[4-(2-methoxyphenyl)piperazin-1-yl]-1,2-diphenylethanol)	Diphenpipenol isomer				
65	Unknown	Other Opioids	2-Fluoro MT-45	1-Cyclohexyl-4-(1-(2-fluorophenyl)-2-phenylethyl)piperazine; GTPL 10725; 2-Fluoro I-C6	2F-MT-45		2748592-60-9	
66	Unknown	Other Opioids	2-Fluoro-Viminol	2-[Di(butan-2-yl)amino]-1-[1-[(2-fluorophenyl)methyl]pyrrol-2-yl]ethanol; 2-(disecbutylamino)-1-[1-[(2-fluorophenyl)methyl]pyrrol-2-yl]ethanol; 2-F viminol; 2F-Viminol		63880-43-3		



67	Unknown	Other Opioids	Acetoxymethylketobemidone	3-(4-Acetyl-1-methylpiperidin-4-yl)-phenyl acetate; 1-[4-[3-(acetyloxy)phenyl]-1-methyl-4-piperidinyl]-ethanone	O-AMKD		878766-13-3	
68	No Known Use	Other Opioids	AH-7921	3,4-Dichloro-N-[[1-(dimethylamino)cyclohexyl]methyl]benzamide; 1-(3,4-dichlorobenzamidomethyl)cyclohexyldimethylamine ; Doxylam	AH-7921	55154-30-8	41804-96-0	1961/I
69	Unknown	Other Opioids	AH-8533	2-Chloro-N-[[1-(dimethylamino)cyclohexyl]methyl]-benzamide; N-[[1-(dimethylamino)cyclohexyl]methyl](2-chlorophenyl)carboxamide	AH-8533	759397-79-0	-	
70	Unknown	Other Opioids	Bromadol	4-(4-bromophenyl)-4-(dimethylamino)-1-(2-phenylethyl)cyclohexanol	BDPC	77239-98-6 (trans); 108914-97-0		
71	Unknown	Other Opioids	Bromadoline	4-bromo-N-[2-(dimethylamino)cyclohexyl]benzamide; trans-4-bromo-N-2-(dimethylamino)cyclohexyl]-benzamide	U-47931E	67579-24-2		
72	Unknown	Other Opioids	Carbonyl-Bromadol	(4-Bromophenyl)-(1-(dimethylamino)-4-hydroxy-4-phenethylcyclohexyl)methanone				

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73	Unknown	Other Opioids	Desmethylmoramide	4-Morpholino-2,2-diphenyl-1-(pyrrolidin-1-yl)butan-1-one; 4-morpholin-4-yl-2,2-diphenyl-1-pyrrolidin-1-ylbutan-1-one; 1-(4-morpholino-2,2-diphenylbutyl)-pyrrolidine; 4-(4-Oxo-3,3-diphenyl-4-pyrrolidin-1-ylbutyl)morpholine		1767-88-0		
74	Unknown	Other Opioids	Diphenpipenol	3-[2-[4-(2-methoxyphenyl)piperazin-1-yl]-2-phenylethyl]phenol; 3-[2-[4-(2-methoxyphenyl)-1-piperazinyl]-2-phenylethyl]phenol		83374-54-3		
75	Unknown	Other Opioids	Dipyanone	Dipyanone pyrrolidinil; 4,4-Diphenyl-6- (pyrrolidin-1-yl) heptan-3-one; Dipyanone pyrrolidinyl; Dipianone; N-pyrrolidino Methadone		60996-94-3	102762-20-9	
76	Unknown	Other Opioids	Faxeladol	3-((1R,2R)-2-[(Dimethylamino)methyl]cyclohexyl)phenol	GRTA-9906, GRTA-0009906, EM-906, GCR-9905, GRT-TA300	433265-65-7		
77	No Known Use	Other Opioids	MT-45	1-Cyclohexyl-4-(1,2-diphenylethyl)piperazine; IC-6	MT-45	52964-55-0	57314-55-3 (2HCl)	1961/I
78	Unknown	Other Opioids	Nortilidine	ethyl (1R,2S)-2-(methylamino)-1-phenylcyclohex-3-ene-1-carboxylate; ethyl (1R,6S)-6-(methylamino)-3,6-dihydro[1,1'-biphenyl]-1(2H)-carboxylate		38677-94-0		
79	Unknown	Other Opioids	N-Phenethyl Noroxymorphone	N-Phenethylnoroxymorphone; (+)-Phenethylnoroxymorphone; (4R,4aS,7aR,12bS)-4a,9-dihydroxy-3-(2-phenylethyl)-2,4,5,6,7a,13-hexahydro-1H-4,12-methanobenzofuro[3,2-e]isoquinolin-7-one; 4,5α-epoxy-3,14-dihydroxy-17-(2-phenylethyl)-morphinan-6-one		4778-94-3		

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80	Unknown	Other Opioids	O-Desmethyltramadol	3-[2-[(Dimethylamino)methyl]-1-hydroxycyclohexyl]phenol; 3-[2-(1-Amino-1-methylethyl)-1-hydroxycyclohexyl]phenol; Desmetramadol	O-DSMT	73986-53-5; 80456-81-1 (R)	16412-54-7; 185453-02-5 (R)	
81	Unknown	Other Opioids	Piperidylthiambutene	1-[4,4-di(thiophen-2-yl)but-3-en-2-yl]piperidine; 1-[1-methyl-3,3-bis(2-thienyl)prop-2-enyl]piperidine; 1-(3,3-Di-2-thienyl-1-methylallyl)piperidine; Piperidinohton		54160-31-5	64037-51-0	
82	Unknown	Other Opioids	Spiradoline	2-(3,4-dichlorophenyl)-N-methyl-N-[(5S,7S,8S)-7-pyrrolidin-1-yl-1-oxaspiro[4.5]decan-8-yl]acetamide; 3,4-Dichloro-N-methyl-N-[(5S)-7alpha-(1-pyrrolidinyl)-1-oxaspiro[4.5]decan-8beta-yl]benzeneacetamide; U-62,066; U62	U-62066	87151-85-7	87173-97-5 (mesylate)	
83	Unknown	Other Opioids	Thiobromadol	4-(4-bromophenyl)-4-(dimethylamino)-1-(2-thienylethyl)cyclohexanol; trans-4-(4-Bromophenyl)-4-(dimethylamino)-1-[2-(2-thienyl)ethyl]cyclohexanol	C-8813	616898-54-5 (trans)		
84	Unknown	Other Opioids	Methidone	4-ethylsulfonyl-N,N-dimethyl-4,4-diphenylbutan-2-amine; WIN 1161-3; gamma-(ethylsulfonyl)-N,N,alpha-trimethyl-gamma-phenyl-benzenepropanamine; 3-(ethylsulfonyl)-N,N,1-trimethyl-3,3-diphenyl-propylamine;	IC-26	114538-73-7	60662-79-5	
85	Unknown	Other Opioids	N-Piperidinyl Methidone	1-(4-(ethylsulfonyl)-4,4-diphenylbutan-2-yl)piperidine; DPP-26; DB-900274; 1-[3-(Ethylsulfonyl)-1-methyl-3,3-diphenylpropyl]piperidine; Thiodipipanone;		54160-30-4	95292-91-4	
86	Unknown	U series	2-Naphthyl U-47700	N-[(1R,2R)-2-(Dimethylamino)cyclohexyl]-N-methylnaphthalene-2-carboxamide; N-methyl-N-[2-(N',N',-dimethylamino)cyclohexyl]-2-naphthamide; trans-N-[2-(N',N'-dimethylamino)cyclohexyl]-N-methyl-2-naphthamide; b-U10; beta-U10		67579-80-0		
87	Unknown	U series	3,4-Difluoro U-47700	N-[2-(dimethylamino)cyclohexyl]-3,4-difluoro-N-methylbenzamide; trans-N-[2-(dimethylamino)cyclohexyl]-3,4-difluoro-N-methylbenzamide	Difluoro U-47700			

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88	Unknown	U series	3,4-Methylenedioxy U-47700	N-[2-(Dimethylamino)cyclohexyl]-N-methyl-1,3-benzodioxole-5-carboxamide; 3,4-Methylenedioxy-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzamide	MD-U-47700	-	-	
89	Unknown	U series	Cyclopropyl U-47700	3,4-dichloro-N-2-(dimethylamino)cyclohexyl)-N-cyclopropylbenzamide; trans-3,4-dichloro-N-2-(dimethylamino)cyclohexyl)-N-cyclopropylbenzamide				
90	Unknown	U series	Furanyl UF-17	N-trans-2-(dimethylamino)cyclohexyl)-N-phenylfuran-2-carboxamide			2706404-03-5	
91	Unknown	U series	Isopropyl-U-47700	3,4-Dichloro-N-[2-(dimethylamino)cyclohexyl]-N-isopropyl-benzamide	Isopropyl-U47; IP-U47	-	-	
92	Unknown	U series	Methoxy U-47700	3,4-dichloro-N-2-(dimethylamino)cyclohexyl)-N-methoxybenzamide; trans-3,4-dichloro-N-2-(dimethylamino)cyclohexyl)-N-methoxybenzamide				
93	Unknown	U series	N-Ethyl-U-47700	3,4-dichloro-N-[2-(dimethylamino)cyclohexyl]-N-ethylbenzamide; trans-3,4-dichloro-N-[2-(dimethylamino)cyclohexyl]-N-ethylbenzamide; 3,4-dichloro-N-[(1R,2R)-2-(dimethylamino)cyclohexyl]-N-ethylbenzamide	Ethyl U-47700			
94	Unknown	U series	N-Methyl U-47931E	4-bromo-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzamide; N-Methyl bromadolone; trans-4-bromo-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzamide		75570-38-6 (trans)		
95	Unknown	U series	Trifluoromethyl-U-47700	TFM U-47700; 4-TFM U-47700; N-((1R,2R)-2-(dimethylamino)cyclohexyl)-N-methyl-4-(trifluoromethyl)benzamide; 4-(Trifluoromethyl) U-47700	TFM U-47700		2836411-48-2	
96	Unknown	U series	U04	N-((1R,2R)-2-(dimethylamino)cyclohexyl)-4-trifluoromethyl-N-methylbenzamide; U-04; 4-TFM U-47700; 4-(Trifluoromethyl) U-47700		67579-38-8		

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97	Unknown	U series	U10	N-((1R,2R)-2-(dimethylamino)cyclohexyl)-N-methyl-1-naphthylcarboxamide; N-[2-(dimethylamino)cyclohexyl]-N-methylnaphthalene-1-carboxamide; 1-Naphthyl U-47700; U-10; trans-N-2-(dimethylamino)cyclohexyl)-N-methyl-1-naphthylcarboxamide; a-U10; alpha-U10				
98	No Known Use	U series	U-47700	3,4-Dichloro-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzamide; 3,4-dichloro-N-[(1R,2R)-2-(dimethylamino)cyclohexyl]-N-methylbenzamide	U-47700	82657-23-6 (trans)		1961/I
99	Unknown	U series	U-48800	2-(2,4-Dichlorophenyl)-N-((1S,2S)-2-(dimethylamino)cyclohexyl)-N-methylacetamide; trans-2-(2,4-dichlorophenyl)-N-2-(dimethylamino)cyclohexyl)-N-methylacetamide	U48	2370977-17-4 (trans)		
100	Unknown	U series	U-49900	3,4-Dichloro-N-(2-(diethylamino)cyclohexyl)-N-methylbenzamide; trans-3,4-dichloro-N-[2-(diethylamino)cyclohexyl]-N-methyl-benzamide		67579-76-4 (trans)		
101	Unknown	U series	U-50488	3,4-dichloro-N-methyl-N-[(1R,2R)-2-(1-pyrrolidinyl)cyclohexyl]-benzeneacetamide; trans-3,4-Dichloro-N-methyl-N-[2-(1-pyrrolidinyl)cyclohexyl]-benzeneacetamide		67198-13-4 (trans)	67197-96-0	
102	Unknown	U series	U-51754	2-(3,4-dichlorophenyl)-N-(2-(dimethylamino)cyclohexyl)-N-methylacetamide; trans-3,4-dichloro-N-[2-(dimethylamino)cyclohexyl]-N-methylbenzenacetamide; 2-(3,4-Dichlorophenyl)-N-[(1S,2S)-2-(dimethylamino)cyclohexyl]-N-methylacetamide	Methylene-U-47700		2748595-55-1	
103	Unknown	U series	U-69593	N-methyl-2-phenyl-N-(7-(pyrrolidin-1-yl)-1-oxaspiro[4.5]decan-8-yl)acetamide; N-methyl-2-phenyl-N-[(5S,7S,8S)-7-pyrrolidin-1-yl-1-oxaspiro[4.5]decan-8-yl]acetamide; (+)-(5 $\alpha$ ,7 $\alpha$ ,8 $\beta$ )-N-Methyl-N-[7-(1-pyrrolidinyl)-1-oxaspiro[4.5]dec-8-yl]-benzeneacetamide		96744-75-1		
104	Unknown	U series	UF-17	N-trans-2-(dimethylamino)cyclohexyl)-N-phenylpropionamide; N-[(1S,2S)-2-(dimethylamino)cyclohexyl]-N-phenylpropanamide				

a - Synthetic substances that are not structurally related to fentanyls which interact with opioid receptors.

b - 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.

c - Different chemicals names are separated by a semi-colon (;).

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

e 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.

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\* Denotes substance with no established opioid-like effects but marketed as such, while having no known legitimate uses.