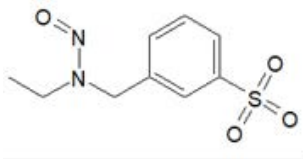
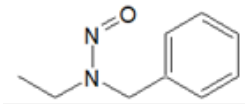
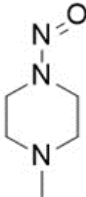
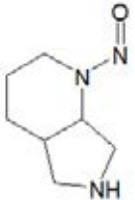
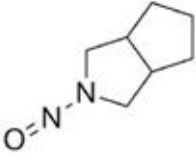
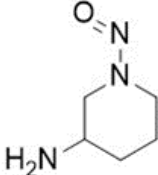
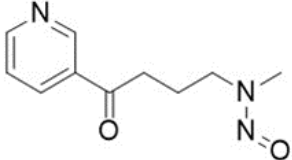
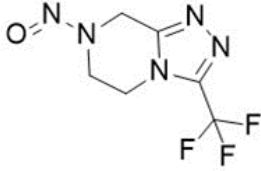
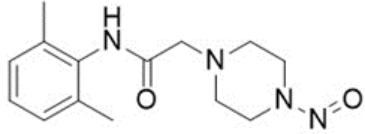
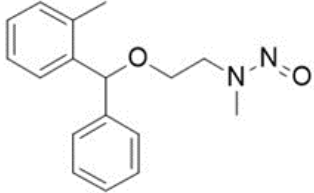
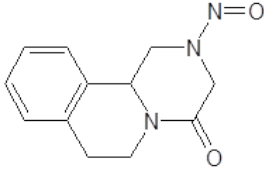
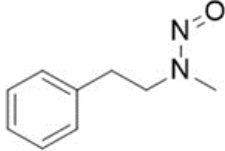
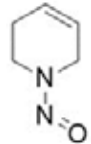
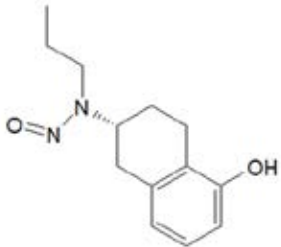


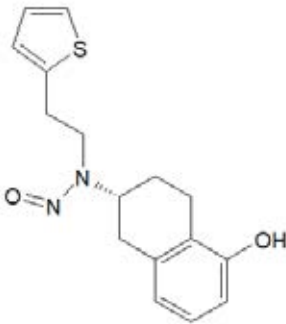
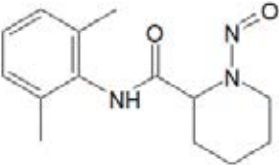
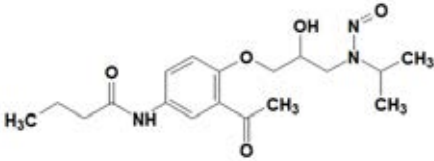
Established acceptable intake for nitrosamines in medicines

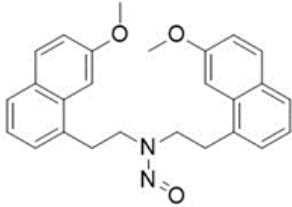
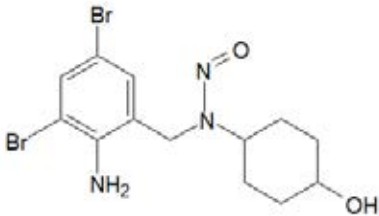
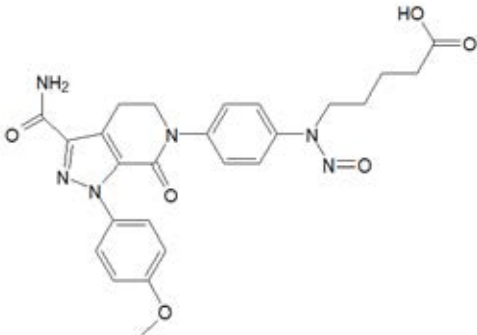
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
Default class specific threshold of toxicological concern TTC	-		18.0	Default limit	-
3-((Ethyl(nitroso)amino)methyl)benzenesulfonate (N-M8)	-		18	1	29 July 2024
<i>N</i> -Nitroso- <i>N</i> -ethyl-benzylamine / <i>N</i> -benzyl- <i>N</i> -ethylnitrous amide (20689-96-7, NBEA)	-		18	1	29 July 2024
1-Methyl-4-nitrosopiperazine (16339-07-4, MeNP/MNP)	Rifampicin		400	3	20 July 2022 Updated 24 August 2023

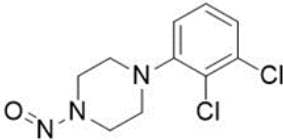
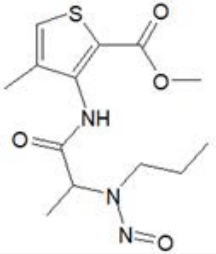
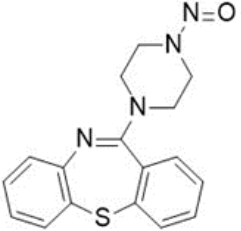
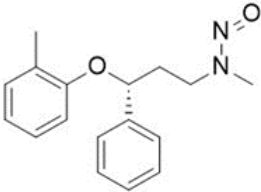
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
1-Nitroso-pyrroloperidine	-		1500	4	24 August 2023
2-Nitroso-octahydrocyclopenta(c)pyrrole (54786-86-6)	Gliclazide		1700		24 August 2023
3-Amino- <i>N</i> -nitrosopiperidine (2819242-71-0)	Alogliptin		400	3	16 October 2023
4-(Methylnitrosoamino)-1-(3-pyridinyl)-1- butanone (64091-91-4, NNK)	-		100		5 January 2023

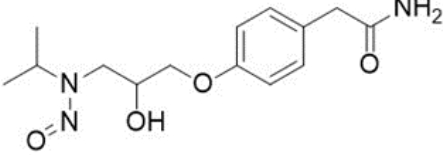
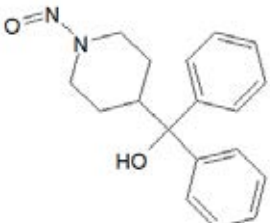
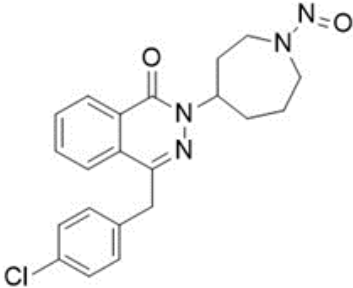
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
7-Nitroso-3-(trifluoromethyl)-5,6,7,8-tetrahydro[1,2,4]triazolo-[4,3-a]pyrazine (2892260-32-9, NTPP)	Sitagliptin		100	2	20 July 2022 Updated 29 July 2024
Nitroso impurity C" [<i>N</i> -(2,6-dimethylphenyl)-2-(4-nitrosopiperazin-1-yl)acetamide]	Ranolazine		400	3	24 August 2023
<i>N</i> -Nitroso-orphenadrine (NMOA)	Orphenadrine		18	1	24 August 2023
<i>N</i> -Nitroso-praziquanamine / [2-nitroso-2,3,6,7-tetrahydro-1 <i>H</i> -pyrazino[2,1- <i>a</i>]isoquinolin-4(11 <i>bH</i>)-one] (115822-46-3)	Arpraziquantel		1500	4	24 August 2023

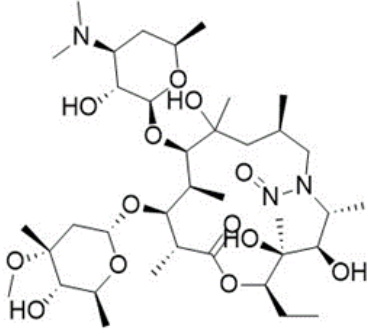
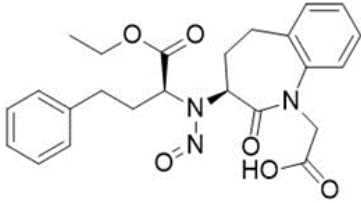
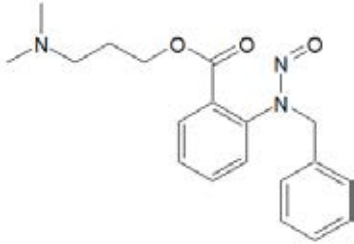
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Methyl- <i>N</i> -nitrosophenethylamine (13256-11-6, NMPEA)	-		8.0		5 January 2023
<i>N</i> -Nitroso-1,2,3,6-tetrahydropyridine (55556-92-8, NTHP)	-		37.0		20 July 2022
<i>N</i> -Nitroso derivative of rotigotine impurity B / <i>N</i> -(5-hydroxy-1,2,3,4- tetrahydronaphthalen-2-yl)- <i>N</i> - propylnitrous amide	Rotigotine		400	3	16 October 2023

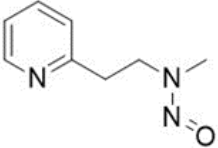
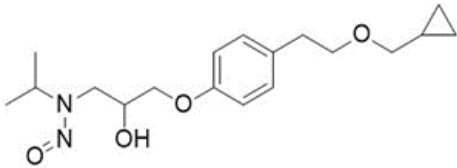
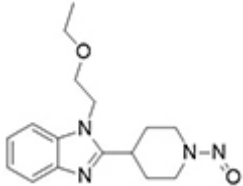
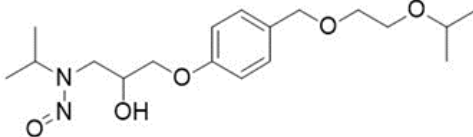
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso derivative of rotigotine impurity C / <i>N</i> -(5-hydroxy-1,2,3,4-tetrahydronaphthalen-2-yl)- <i>N</i> -(2-(thiophen-2-yl)ethyl)nitrous amide	Rotigotine	 <p>The structure shows a 1,2,3,4-tetrahydronaphthalen-2-yl ring system with a hydroxyl group at the 5-position. This ring is attached to a nitrogen atom that is also bonded to a nitroso group (N=O) and a 2-(thiophen-2-yl)ethyl group.</p>	1500	4	16 October 2023
<i>N</i> -Nitroso-2,6-pipecoloxilidide	Ropivacaine	 <p>The structure shows a pipecoloxilidide ring system (a bicyclic piperidine derivative) with a nitroso group (N=O) on the nitrogen atom. It is also attached to a 2,6-dimethylphenyl group via an amide linkage.</p>	1500	4	24 August 2023
<i>N</i> -Nitroso-acebutolol	Acebutolol	 <p>The structure shows a benzene ring with a propylamide group (-NH-CH2-CH2-CH3), a methyl ketone group (-C(=O)CH3), and a methoxy group (-O-CH2-CH(OH)-CH2-N(CH3)2) at the 1, 2, and 3 positions respectively. The nitrogen of the dimethylamino group is nitrosated (N=O).</p>	1500	4	15 October 2024

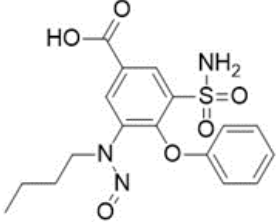
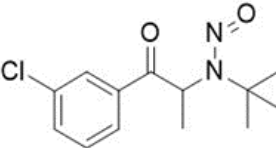
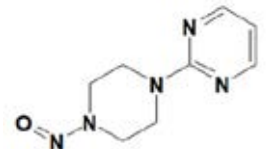
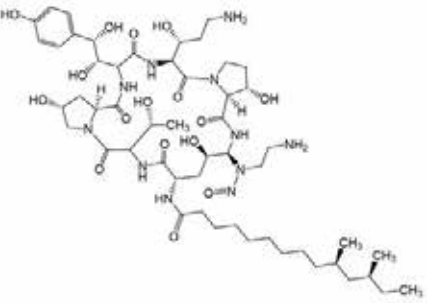
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-2-(7-methoxy-1-naphthyl)- <i>N</i> -[2-(7-methoxy-1-naphthyl)ethyl]ethylamine	Agomelatine		100	2	29 July 2024
<i>N</i> -Nitroso-ambroxol	Ambroxol		1500		24 August 2023 Updated 31 January 2024
<i>N</i> -Nitroso-apixaban impurity B / 5-[4-[3-carbamoyl-1-(4-methoxyphenyl)-7-oxo-4,5-dihydropyrazolo[3,4- <i>c</i>]pyridin-6-yl]- <i>N</i> -nitrosoanilino]pentanoic acid	Apixaban		1500	4	24 April 2024

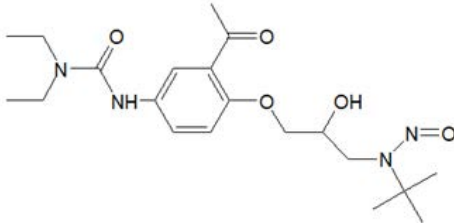
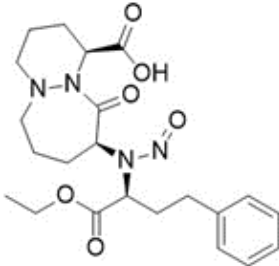
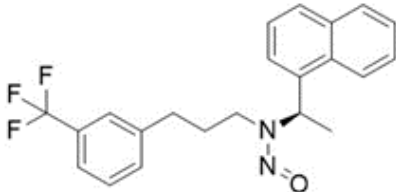
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
1-(2,3-Dichlorophenyl)-4-nitrosopiperazine (2221987-86-4)	Aripiprazole		400	3	31 January 2024
<i>N</i> -Nitroso-articaine / methyl 4-methyl-3-(2-(nitroso(propyl)amino)propanamido)thiophene-2-carboxylate	Articaine		1500	4	29 July 2024
<i>N</i> -Nitroso-aryl piperazine / <i>N</i> -nitroso-desalkylquetiapine (NDAQ)	Quetiapine		400	3	24 August 2023
<i>N</i> -Nitroso-atomoxetine	Atomoxetine		100		24 August 2023

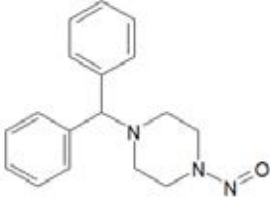
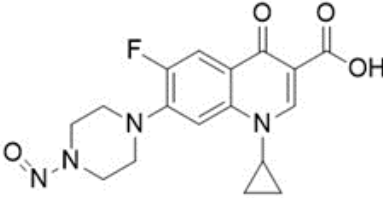
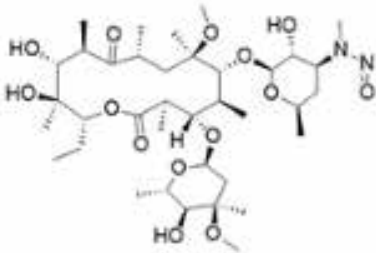
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-atenolol (134720-04-0)	Atenolol		1500	4	24 August 2023
<i>N</i> -Nitroso-azacyclonol (1038-06-8)	Azacyclonol		400	3	31 January 2024
<i>N</i> -Nitroso-desmethyl-azelastine	Azelastine		100	2	31 January 2024

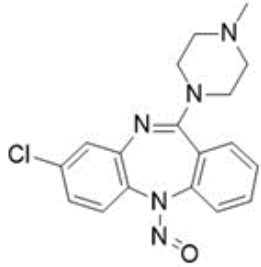
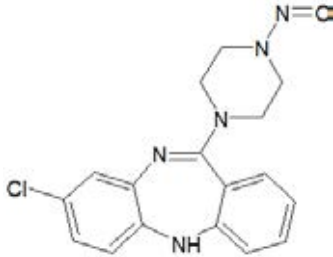
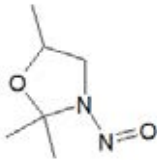
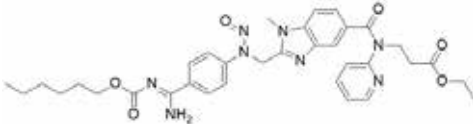
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-azithromycin	Azithromycin		NMI		24 August 2023
<i>N</i> -Nitroso-benazepril	Benazepril		1500	5	24 August 2023
3-(Dimethylamino)propyl 2-[benzyl(nitroso)amino]benzoate	Benzydamine		400	3	29 July 2024

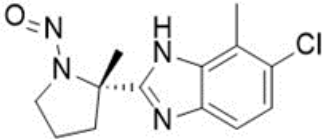
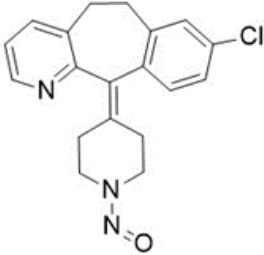
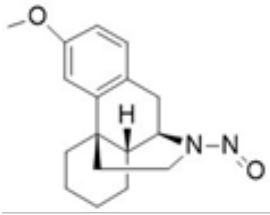
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-betahistine (32635-81-7)	Betahistine		18	1	24 August 2023
<i>N</i> -Nitroso-betaxolol	Betaxolol		1500	4	31 January 2024
<i>N</i> -Nitroso-bilastine impurity 2 / 1-(2-ethoxyethyl)-2-(1-nitrosopiperidin- 4-yl)-1 <i>H</i> -benzo[d]imidazole	Bilastine		400	3	29 July 2024
<i>N</i> -Nitroso-bisoprolol (2820170-76-9, NBP)	Bisoprolol		1500	4	24 August 2023

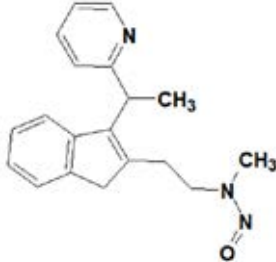
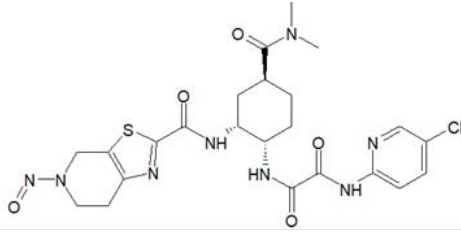
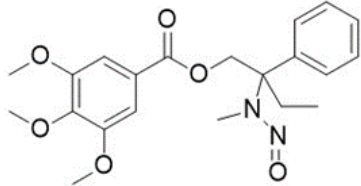
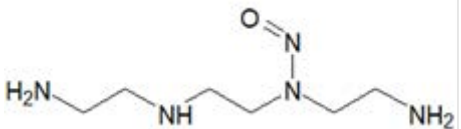
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-bumetanide (2490432-02-3, NNB)	Bumetanide		1500	4	24 August 2023
<i>N</i> -Nitroso-bupropion (2763780-10-3)	Bupropion		1500	5	24 August 2023
<i>N</i> -Nitroso-buspirone Impurity 1 / 2-(4-nitrosopiperazine-1-yl)-pyrimidine (872826-80-7)	Buspirone		400	3	15 October 2024
<i>N</i> -Nitroso-caspofungin / (10 <i>R</i> ,12 <i>S</i>)- <i>N</i> - ((2 <i>R</i> ,9 <i>S</i> ,11 <i>R</i> ,12 <i>S</i> ,14 <i>aS</i> ,15 <i>S</i> ,20 <i>S</i> ,25 <i>aS</i>)-20- ((<i>R</i>)-3-amino-1-hydroxypropyl)-12-((2- aminoethyl)(nitroso)amino)-23-((1 <i>S</i> ,2 <i>S</i>)- 1,2-dihydroxy-2-(4-hydroxyphenyl)ethyl)- 2,11,15-trihydroxy-6-((<i>R</i>)-1-hydroxyethyl)- 5,8,14,19,22,25-hexaoxotetracosahydro-	Caspofungin		1500	4	29 July 2024

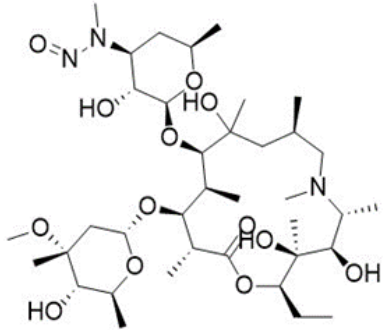
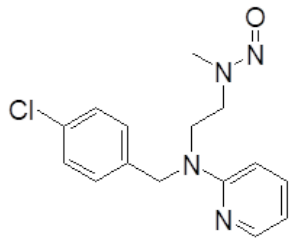
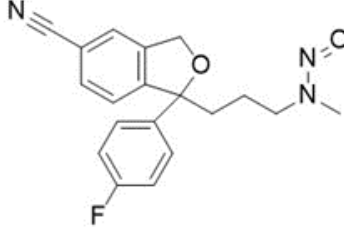
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
1 <i>H</i> -dipyrrolo[2,1- <i>c</i> :2',1'- l][1,4,7,10,13,16]hexaazacyclohenicosin-9- yl)-10,12-dimethyltetradecanamide					
<i>N</i> -Nitroso-celiprolol	Celiprolol	 <p>The structure shows a central benzene ring with a diethylcarbamoyl group (-NH-C(=O)-N(CH2CH3)2) at the para position, an acetyl group (-C(=O)CH3) at the ortho position, and a side chain at the other ortho position. The side chain consists of a methylene group (-CH2-) connected to a chiral carbon atom bonded to a hydroxyl group (-OH) and a nitrosamine group (-N(CH2CH3)2-N=O).</p>	1500	5	31 January 2024
<i>N</i> -Nitroso-cilazapril (1053740-92-3)	Cilazapril	 <p>The structure features a bicyclic 1,4-diazepane ring system. One nitrogen atom is part of a secondary amide group (-NH-C(=O)-). The other nitrogen atom is bonded to a nitrosamine group (-N=O). A side chain is attached to the ring, consisting of a chiral carbon atom bonded to an ethyl ester group (-COOCH2CH3) and a propylbenzyl group (-CH2CH2CH2-Ph).</p>	1500	5	24 August 2023
<i>N</i> -Nitroso-cinacalcet	Cinacalcet	 <p>The structure shows a naphthalene ring system. A side chain is attached to the naphthalene ring, consisting of a propyl group (-CH2CH2CH2-) connected to a chiral carbon atom. This carbon atom is also bonded to a methyl group (-CH3) and a nitrosamine group (-N(CH2CH3)2-N=O). A trifluoromethyl group (-CF3) is attached to the para position of the benzene ring fused to the naphthalene system.</p>	400	3	31 January 2024

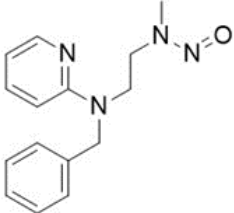
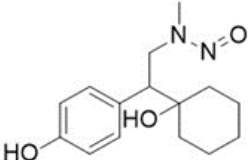
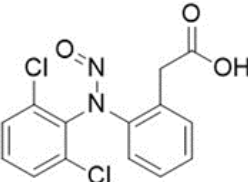
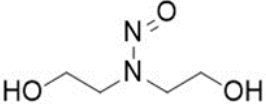
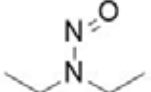
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
1-(Diphenylmethyl)-4-nitrosopiperazine / 1-benzhydryl-4-nitrosopiperazine (1698-25-5)	Cinnarizine		400	3	29 July 2024
<i>N</i> -Nitroso-ciprofloxacin (864443-44-7)	Ciprofloxacin		NMI		24 August 2023 Updated 15 October 2024
<i>N</i> -Nitroso- <i>N</i> -desmethyl-clarithromycin / <i>N</i> -[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,6 <i>R</i>)-2- [[[(3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i> ,7 <i>R</i> ,9 <i>R</i> ,11 <i>R</i> ,12 <i>R</i> ,13 <i>S</i> ,14 <i>R</i>)-14- ethyl-12,13-dihydroxy-4-[(2 <i>R</i> ,4 <i>R</i> ,5 <i>S</i> ,6 <i>S</i>)-5- hydroxy-4-methoxy-4,6-dimethyloxan-2- yl]oxy-7-methoxy-3,5,7,9,11,13- hexamethyl-2,10-dioxo-oxacyclotetradec- 6-yl]oxy]-3-hydroxy-6-methyloxan-4-yl]- <i>N</i> -methylnitrous amide	Clarithromycin		NMI		29 July 2024

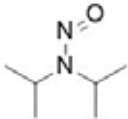
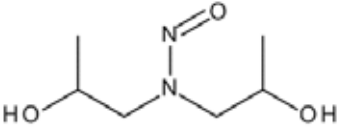
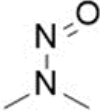
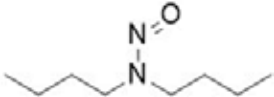
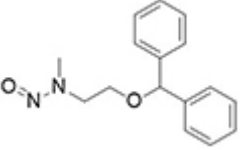
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-clozapine / 8-chloro-11-(4-methylpiperazin-1-yl)-5- nitroso-5 <i>H</i> -dibenzo[<i>b,e</i>][1,4]diazepine (156632-03-0)	Clozapine		1500	5	24 April 2024
<i>N</i> -Nitroso-clozapine EP Impurity C / 8-chloro-11-(4-nitrosopiperazin-1-yl)-5 <i>H</i> - dibenzo[<i>b, e</i>][1, 4]diazepine	Clozapine		400	3	24 April 2024
2,2,5-Trimethyl-3-nitroso-1,3-oxazolidine (77400-46-5, TMNO)	Cyanocobalamine		1500	4	24 April 2024
<i>N</i> -Nitroso-dabigatran etexilate (NDAB)	Dabigatran etexilate		1500		5 January 2023 Updated 24 August 2023

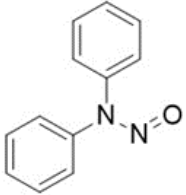
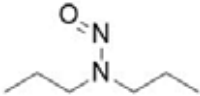
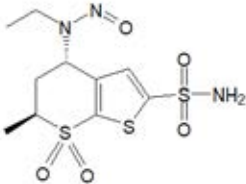
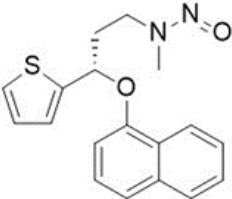
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
					and 24 April 2024
5-Chloro-4-methyl-2-[(2 <i>S</i>)-2-methyl-1-nitrosopyrrolidin-2-yl]-1 <i>H</i> -benzimidazole (IDOR-1135-8758)	Daridorexant		1500	5	31 January 2024
<i>N</i> -Nitroso-desloratadine (1246819-22-6)	Desloratadine		400	3	24 August 2023
<i>N</i> -Nitroso- <i>N</i> -desmethyl dextromethorphan/ (4 <i>bS</i> ,8 <i>aS</i> ,9 <i>S</i>)-3-methoxy-11-nitroso- 6,7,8,8 <i>a</i> ,9,10-hexahydro-5 <i>H</i> -9,4 <i>b</i> - (epiminoethano)phenanthrene (N-DEX)	Dextromethorphan		1500	4	29 July 2024

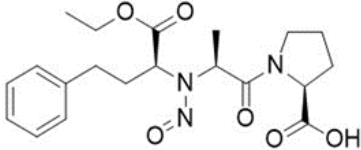
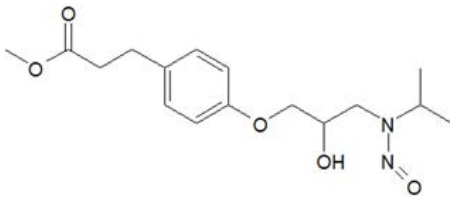
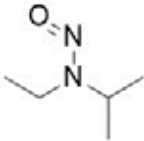
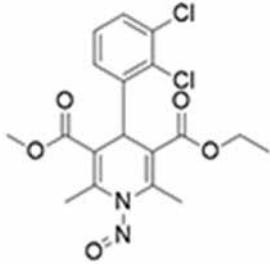
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-desmethyl-dimetindene / <i>N</i> -methyl- <i>N</i> -(2-(3-(1-(pyridin-2-yl)ethyl)- 1 <i>H</i> -inden-2-yl)ethyl)nitrous amide (NO-DDMT)	Dimetindene		18	1	15 October 2024
<i>N</i> -Nitroso-desmethyl-edoxaban / <i>N</i> 1-(5-chloropyridin-2-yl)- <i>N</i> 2-((1 <i>S</i> ,2 <i>R</i> ,4 <i>S</i>)- 4-(dimethylcarbamoyl)-2-(5-nitroso- 4,5,6,7-tetrahydrothiazolo[5,4- <i>c</i>]pyridine- 2-carboxamido)cyclohexyl)oxalamide 4- methylbenzenesulfonate	Edoxaban		100	2	29 July 2024
<i>N</i> -Nitroso-desmethyl trimebutine	Trimebutine		1500	5	24 August 2023
<i>N</i> -Nitroso-trientine Impurity 1 / <i>N</i> -(2-aminoethyl)- <i>N</i> -(2-((2- aminoethyl)amino)ethyl)nitrous amide	Trientine		18	1	29 July 2024

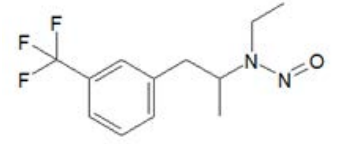
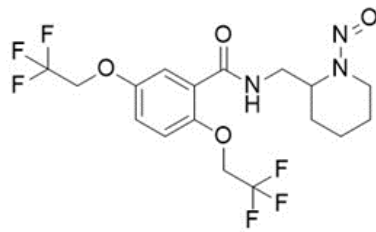
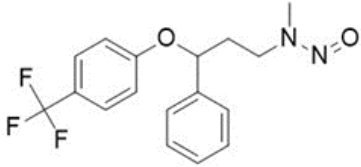
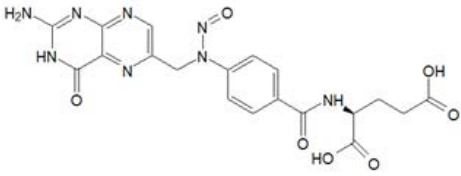
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
(2817316-41-7)					
<i>N</i> -Nitroso-desmethylazithromycin	Azithromycin		NMI		24 August 2023
<i>N</i> -Nitroso-desmethyl-chloropyramine (N-DMCP)	Chloropyramine		18	1	24 August 2023
<i>N</i> -Nitroso-desmethyl-citalopram / <i>N</i> -(3-(5-cyano-1-(4-fluorophenyl)-1, 3- dihydroisobenzofuran-1-yl)propyl)- <i>N</i> - methylnitrous amide	Citalopram		100		31 January 2024 Updated 29 July 2024

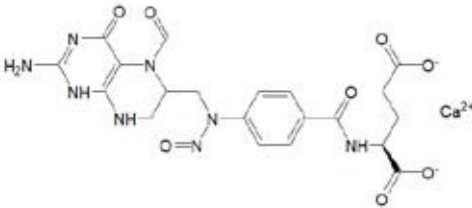
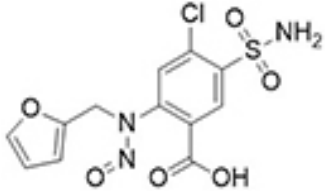
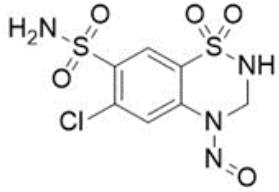
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-desmethyl-tripelennamine	Tripelennamine		18	1	24 August 2023
<i>N</i> -Nitroso-desvenlafaxine	Desvenlafaxine		18	1	31 January 2024
<i>N</i> -Nitroso-diclofenac (66505-80-4)	Diclofenac		78000		24 August 2023 Updated 15 October 2024
<i>N</i> -Nitroso-diethanolamine (1116-54-7, NDELA)	-		1900		5 January 2023
<i>N</i> -Nitroso-diethylamine (55-18-5, NDEA)	-		26.5		15 September

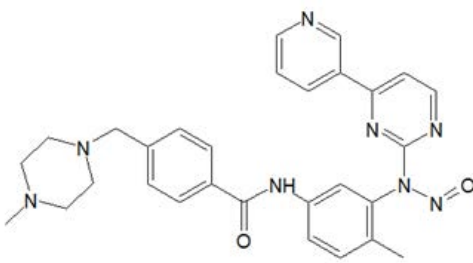
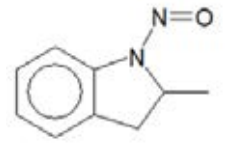
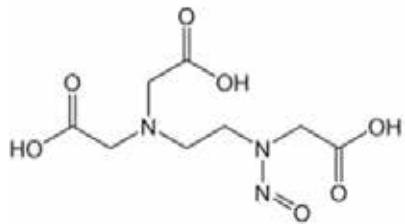
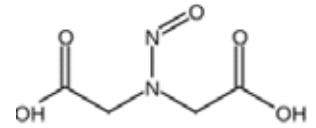
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-diisopropylamine / <i>N,N</i> -di(propan-2-yl)nitrous amide (601-77-4, DIPNA/NDIPA)	-		1500	5	2019 15 September 2019 Updated 29 July 2024
<i>N</i> -Nitrosodiisopropanolamine / 1, 1'-(nitrosoimino)bis-2-propanol (53609-64-6)	-		400	3	24 April 2024
<i>N</i> -Nitroso-dimethylamine (62-75-9, NDMA)	-		96.0		15 September 2019
<i>N</i> -Nitroso-di- <i>n</i> -butylamine (924-16-3, NDBA)	-		26.5		20 July 2022
<i>N</i> -Nitroso- <i>N</i> -desmethyl- diphenhydramine / <i>N</i> -(2-benzhydryloxyethyl)- <i>N</i> - methylnitrous amide	Diphenhydramine / Dimenhydrinate		18	1	29 July 2024

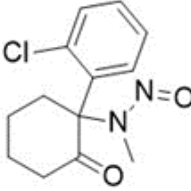
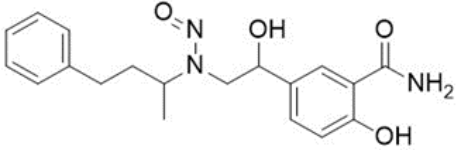
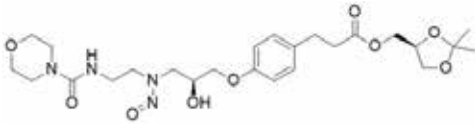
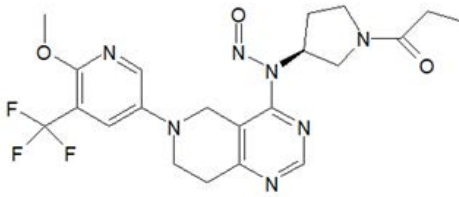
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
(55855-43-1)					
<i>N</i> -Nitroso-diphenylamine (86-30-6, NDPh)	-		78000		5 January 2023
<i>N</i> -Nitroso-dipropylamine (621-64-7, NDPA)	-		26.5		20 July 2022
<i>N</i> -Nitroso-dorzolamide	Dorzolamide		1500		31 January 2024
<i>N</i> -Nitroso-duloxetine (2680527-91-5, NDLX)	Duloxetine		100.0		20 July 2022

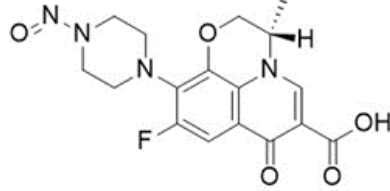
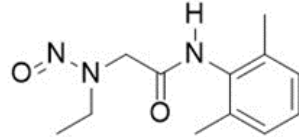
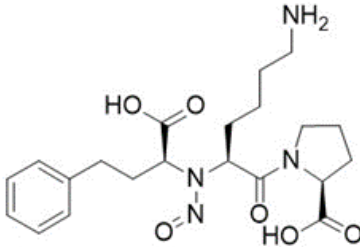
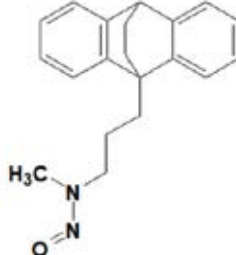
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-enalapril	Enalapril		1500	5	24 August 2023
<i>N</i> -Nitroso-esmolol	Esmolol		1500	4	31 January 2024
<i>N</i> -Nitroso-ethylisopropylamine / <i>N</i> -ethyl- <i>N</i> -propan-2-yl nitrous amide (16339-04-1, EIPNA/NEIPA)	-		400	3	15 September 2019 Updated 29 July 2024
<i>N</i> -Nitroso-felodipine	Felodipine		1500	5	24 August 2023

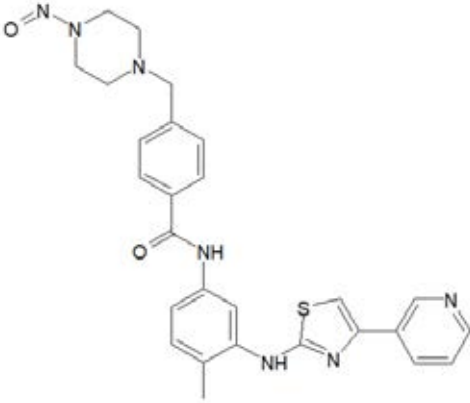
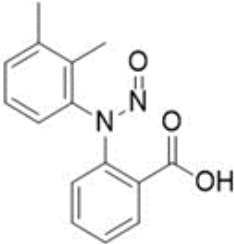
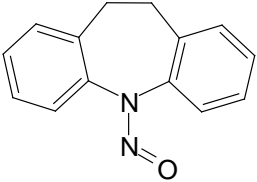
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-fenfluramine / <i>N</i> -ethyl- <i>N</i> -[1-[3-(trifluoromethyl)phenyl]propan-2-yl]nitrous amide (19023-40-6)	Fenfluramine		400	3	29 July 2024
<i>N</i> -Nitroso-flecainide / <i>N</i> -((1-nitrosopiperidin-2-yl)methyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide (2901109-58-6)	Flecainide		1500	4	24 April 2024
<i>N</i> -Nitrosofluoxetine (150494-06-7)	Fluoxetine		100		5 January 2023
<i>N</i> -Nitroso-folic acid / 2-[[4-[(2-amino-4-oxo-3 <i>H</i> -pteridin-6-yl)methyl-nitrosoamino]benzoyl]amino]pentanedioic acid (26360-21-4, NFA)	Folic acid		1500	4	24 August 2023 Updated 29 July 2024

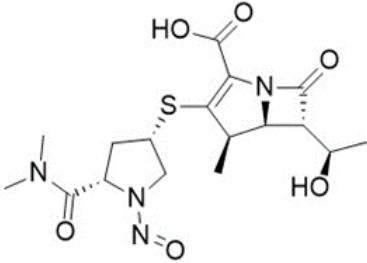
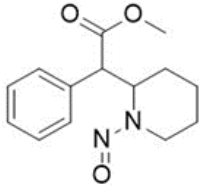
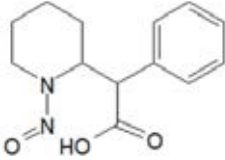
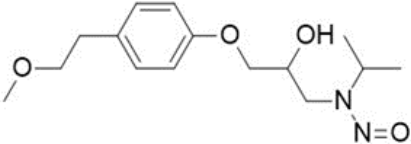
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-calcium folinate	Calcium folinate / Calcium levofolinate		NMI		31 January 2024
<i>N</i> -Nitroso-furosemide / 4-chloro-2-[furan-2- ylmethyl(nitroso)amino]-5- sulfamoylbenzoic acid (2708280-93-5)	Furosemide		1500		29 July 2024
<i>N</i> -Nitroso-hydrochlorothiazide (63779-86-2, NHCTZ)	Hydrochlorothiazide		NMI		24 August 2023

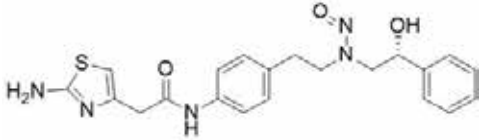
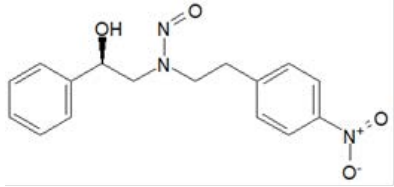
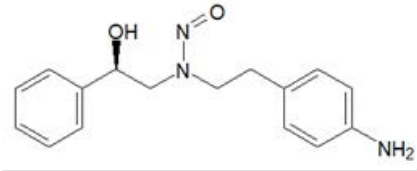
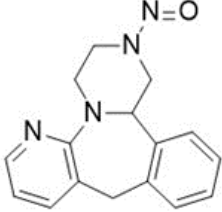
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso imatinib	Imatinib	 <p>The structure shows a central benzene ring with a piperazine ring attached at the para position and a nitrosamine group (-NH-N=O) at the other para position. The nitrosamine group is further substituted with a pyridine ring and a methyl group.</p>	1500	5	31 January 2024
Indapamide impurity A / 2-methyl-1-nitroso-2,3-dihydroindole (85440-79-5)	Indapamide	 <p>The structure shows a benzene ring fused to a five-membered ring containing a nitrogen atom. The nitrogen atom is bonded to a methyl group and a nitroso group (-N=O).</p>	1500	5	31 January 2024
<i>N</i> -Nitroso-ethylenediamine-triacetic acid (862542-34-5)	Isosorbide mononitrate	 <p>The structure shows a central nitrogen atom bonded to two ethyl chains. Each ethyl chain is terminated with a carboxylic acid group (-COOH). The central nitrogen atom is also bonded to a nitroso group (-N=O).</p>	1500	4	31 January 2024
<i>N</i> -Nitroso-iminodiacetic acid (25081-31-6)	Isosorbide mononitrate	 <p>The structure shows a central nitrogen atom bonded to two acetic acid groups (-CH₂COOH) and a nitroso group (-N=O).</p>	1500	4	31 January 2024

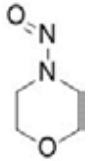
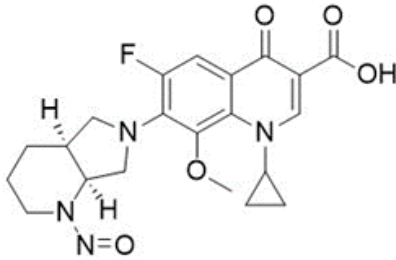
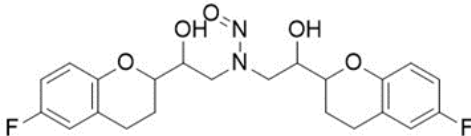
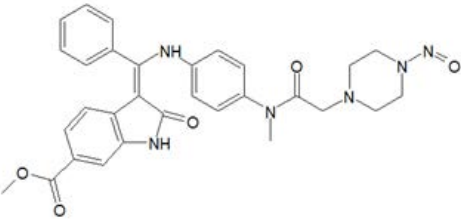
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-ketamine (86144-35-6)	Ketamine		1500	5	24 August 2023
<i>N</i> -Nitroso-labetalol (2820170-74-7)	Labetalol		1500	4	24 August 2023
<i>N</i> -Nitroso-landiolol	Landiolol		400	3	24 August 2023
<i>N</i> -Nitroso-leniolisib	Leniolisib		1500	5	31 January 2024

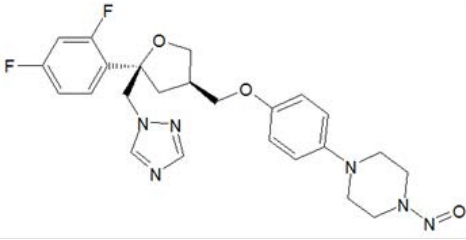
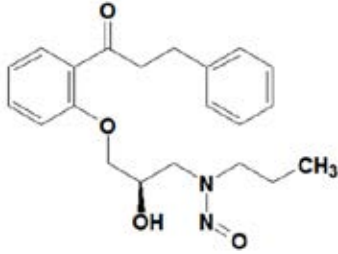
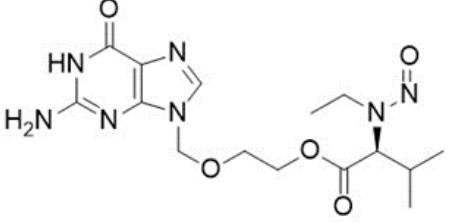
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-levofloxacin (1152314-62-9)	Levofloxacin		1500	4	24 August 2023
<i>N</i> -Nitroso-desethylidocaine	Lidocaine / Lignocaine		100	2	31 January 2024
<i>N</i> -Nitroso-lisinopril / <i>N</i> 2-((<i>S</i>)-1-carboxy-3-phenylpropyl)- <i>N</i> 2- nitroso- <i>L</i> -lysyl- <i>L</i> -proline (519175-80-5, NLP)	Lisinopril		NMI		24 August 2023 Updated 29 July 2024
<i>N</i> -Nitroso-maprotiline / <i>N</i> -(3-(9, 10-dihydro-9, 10- ethanoanthracen-9-yl)propyl)- <i>N</i> - methylnitrous amide (204268-61-1)	Maprotiline		18	1	15 October 2024

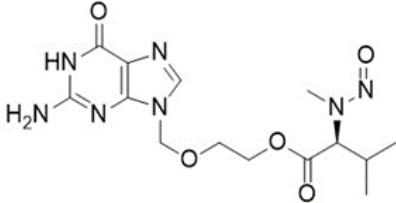
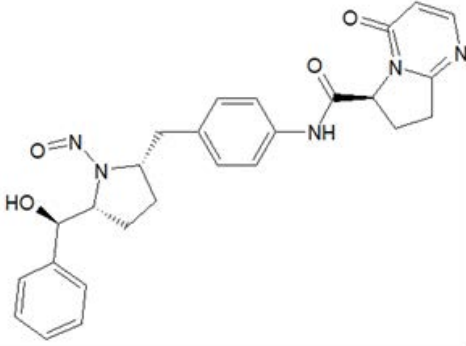
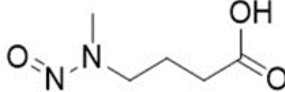
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<p><i>N</i>-Nitroso-masitinib / 4-[(4-nitrosopiperazin-1-yl)methyl]-<i>N</i>-(4-methyl-3-[[4-(pyridin-3-yl)-1,3-thiazol-2-yl]amino}phenyl)benzamide</p>	Masitinib	 <p>The structure shows a piperazine ring with a nitroso group on one nitrogen and a benzamide chain on the other. The benzamide chain is substituted with a 4-methylphenyl group and a 3-[[4-(pyridin-3-yl)-1,3-thiazol-2-yl]amino}phenyl group.</p>	400	3	24 April 2024
<p><i>N</i>-Nitroso-mefenamic acid (2114-63-8)</p>	Mefenamic acid	 <p>The structure shows a central nitrogen atom bonded to a nitroso group, a 2,4-dimethylphenyl group, and a 2-carboxyphenyl group.</p>	78000		5 January 2023
<p><i>N</i>-Nitroso-iminodibenzyl / 10,11-dihydro-5-nitroso-5<i>H</i>- dibens[b,f]azepine / 2-nitroso-2-azatricyclo[9.4.0.0^{3,8}] pentadeca-1(11),3(8),4,6,12,14-hexaene) (7458-08-4)</p>	Melipramin (Imipramine)	 <p>The structure shows a tricyclic iminodibenzyl core with a nitroso group attached to the nitrogen atom.</p>	78000		15 October 2024

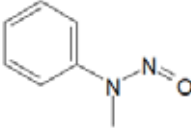
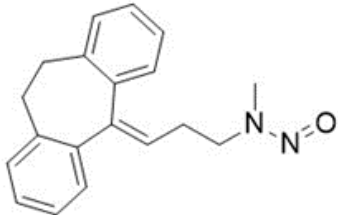
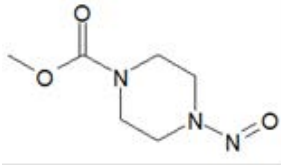
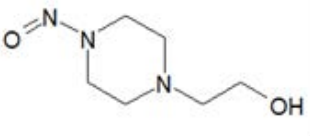
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-meropenem / (4 <i>R</i> , 5 <i>S</i> , 6 <i>S</i>)-3-(((3 <i>S</i> , 5 <i>S</i>)-5- (dimethylcarbamoyl)-1-nitrosopyrrolidin- 3-yl)thio)-6-((<i>R</i>)-1-hydroxyethyl)-4- methyl-7-oxo-1-azabicyclo[3.2.0]hept-2- ene-2-carboxylic acid	Meropenem		1500	4	24 April 2024
<i>N</i> -Nitroso-methylphenidate (55557-03-4, NMPH)	Methylphenidate		1300		20 July 2022
<i>N</i> -Nitroso-ritalinic acid / 2-(1-nitrosopiperidin-2-yl)-2-phenylacetic acid	Methylphenidate		1500	4	24 April 2024
<i>N</i> -Nitroso-metoprolol (138768-62-4)	Metoprolol		1500	4	24 August 2023

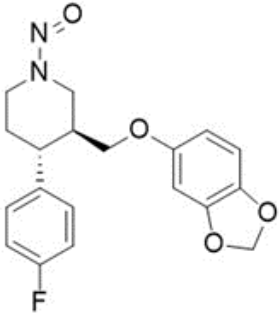
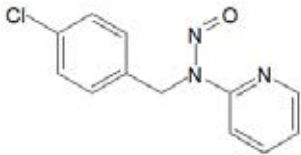
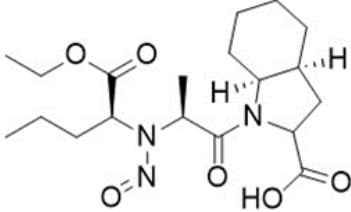
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-mirabegron	Mirabegron	 The structure shows a thiazole ring with an amino group at position 4, connected via a methylene group to a carbonyl group. This carbonyl is further connected to a methylene group, which is linked to a para-substituted benzene ring. This benzene ring is connected via a methylene group to a secondary amine nitrogen atom. This nitrogen atom is bonded to a hydroxyl group and a nitroso group (N=O).	400	3	24 August 2023
<i>N</i> -(2-Hydroxy-2-phenylethyl)- <i>N</i> -(4-nitrophenethyl)nitrous amide / (<i>R</i>)- <i>N</i> -(2-hydroxy-2-phenylethyl)- <i>N</i> -(4-nitrophenethyl)nitrous amide (MBL-2-NO)	Mirabegron	 The structure shows a central nitrogen atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group. This nitrogen is also bonded to a 2-phenylethyl group and a 4-nitrophenethyl group. The nitro group is shown as a nitrogen atom with a positive charge and two oxygen atoms with negative charges.	400	3	29 July 2024
<i>N</i> -(4-Aminophenethyl)- <i>N</i> -(2-hydroxy-2-phenylethyl)nitrous amide / (<i>R</i>)- <i>N</i> -(4-aminophenethyl)- <i>N</i> -(2-hydroxy-2-phenylethyl)nitrous amide (MBL-3-NO)	Mirabegron	 The structure shows a central nitrogen atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group. This nitrogen is also bonded to a 2-phenylethyl group and a 4-aminophenethyl group. The amino group is shown as a nitrogen atom with two hydrogen atoms.	400	3	29 July 2024
<i>N</i> -Nitroso-mirtazapine	Mirtazapine	 The structure shows a mirtazapine core, which consists of a benzene ring fused to a pyridine ring, which is further fused to a piperazine ring. A nitroso group (N=O) is attached to the nitrogen atom at the 4-position of the piperazine ring.	400	3	31 January 2024

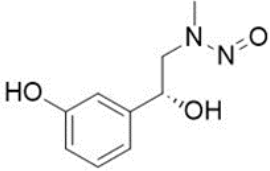
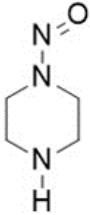
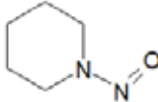
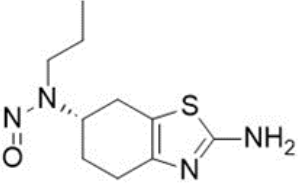
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-morpholine (59-89-2, NMOR)	-		127.0		20 July 2022
<i>N</i> -Nitroso-moxifloxacin	Moxifloxacin		1500	4	24 August 2023
<i>N</i> -Nitroso-nebivolol (1391051-68-5, NNEB)	Nebivolol		1500	4	24 August 2023
<i>N</i> -Nitroso desmethyl nintedanib	Nintedanib		400	3	31 January 2024

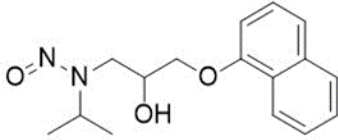
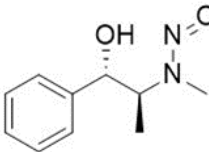
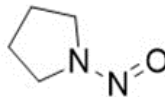
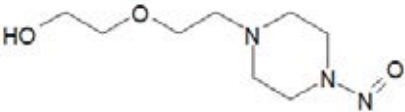
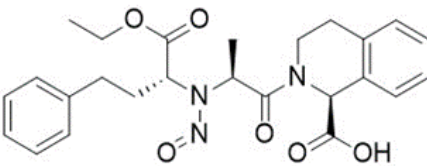
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-posaconazole Impurity 1 / 1-(4-(((3 <i>R</i> ,5 <i>R</i>)-5-((1 <i>H</i> -1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)phenyl)-4-nitrosopiperazine	Posaconazole		400	3	29 July 2024
<i>N</i> -Nitroso-propafenon / <i>N</i> -(2-hydroxy-3-(2-(3-phenylpropanoyl)phenoxy)propyl)- <i>N</i> -propylnitrous amide	Propafenon		100	2	15 October 2024
<i>N</i> -Nitroso- <i>N</i> -ethyl-valaciclovir	Valaciclovir		400	3	24 August 2023

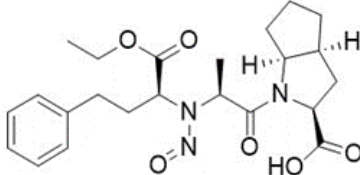
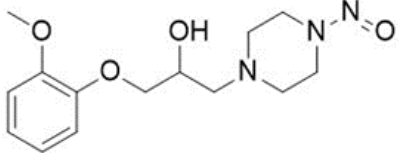
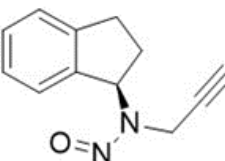
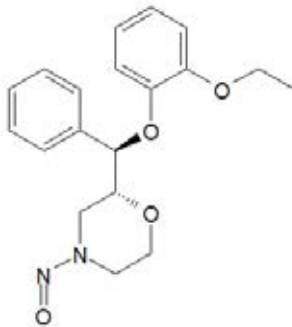
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso- <i>N</i> -methyl-valaciclovir	Valaciclovir		400	3	24 April 2024
<i>N</i> -Nitroso-vibegron (<i>S</i>)- <i>N</i> -(4-(((2 <i>R</i> ,5 <i>S</i>)-5-((<i>R</i>)-hydroxy(phenyl)methyl)-1-nitrosopyrrolidin-2-yl)methyl)phenyl)-4-oxo-4,6,7,8-tetrahydropyrrolo[1,2- <i>a</i>]pyrimidine-6-carboxamide	Vibegron		1500	5	29 July 2024
<i>N</i> -Nitroso- <i>N</i> -methyl-4-aminobutyric acid / 4-[methyl(nitroso)amino]butanoic acid (61445-55-4, NMBA)	-		1500	4	15 September 2019 Updated 29 July 2024

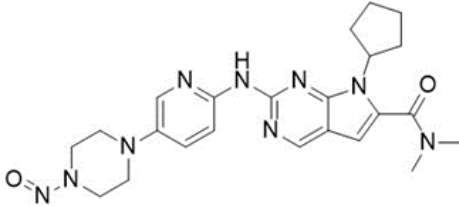
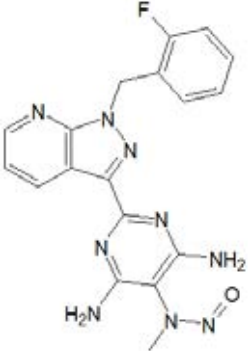
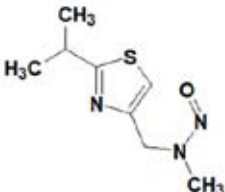
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso- <i>N</i> -methylaniline / <i>N</i> -methyl- <i>N</i> -phenylnitrous amide (614-00-6, NMPA)	-		100	2	31 January 2024
<i>N</i> -Nitroso-nortriptyline (55855-42-0, NNORT)	Amitriptyline, Nortriptyline		18	1	20 July 2022 Updated 15 October 2024
4-Nitroso-methyl piperazine-1- carboxylate (<i>N</i> -nitroso PMEC)	Omecamtiv mecarbil		400	3	29 July 2024
2-(4-Nitrosopiperazin-1-yl)ethanol (48121-20-6)	Opipramol		400	3	29 July 2024

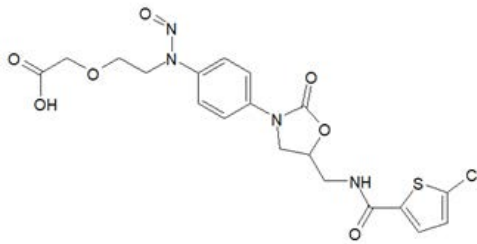
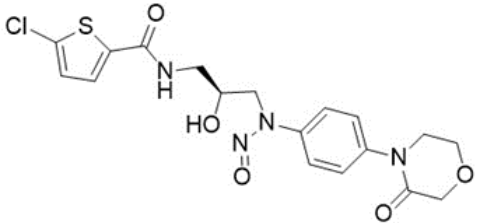
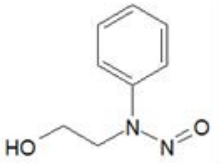
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-paroxetine (2361294-43-9)	Paroxetine		1300		5 January 2023
<i>N</i> -Nitroso- <i>p</i> -chloro-benzylamino-pyridine (N-CBAP)	Chloropyramine		100	2	24 August 2023
<i>N</i> -Nitroso-perindopril	Perindopril		1500	5	24 August 2023

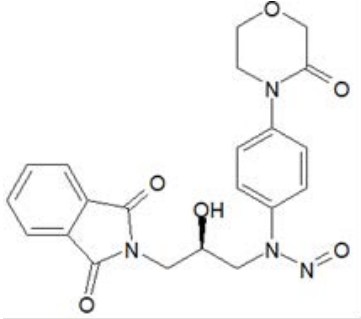
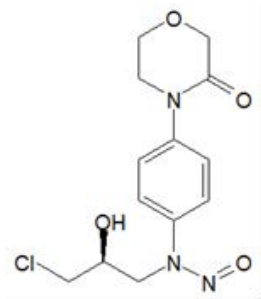
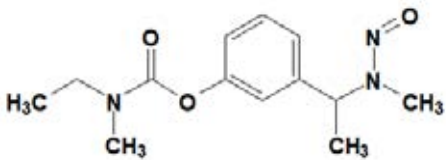
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-phenylephrine (78658-64-7)	Phenylephrine		100	2	24 August 2023
<i>N</i> -Nitroso-piperazine (5632-47-3, NPZ)	-		400	3	24 August 2023
<i>N</i> -Nitrosopiperidine (100-75-4)	-		1300		20 July 2022
<i>N</i> -Nitroso-pramipexole	Pramipexole		400	3	24 August 2023

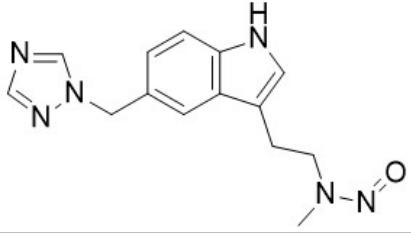
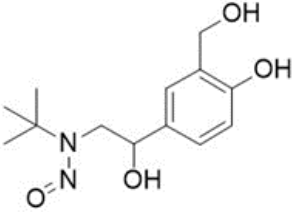
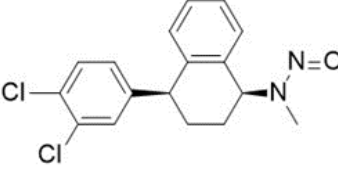
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-propranolol (84418-35-9)	Propranolol		1500	4	24 August 2023
<i>N</i> -Nitroso-pseudoephedrine (1850-88-0)	Pseudoephedrine		1500	4	24 August 2023
<i>N</i> -Nitroso-pyrrolidine (930-55-2, NPYR)	-		1700		5 January 2023
<i>N</i> -Nitroso quetiapine HEEP impurity / 2-(2-(4-nitrosopiperazin-1-yl)ethoxy)ethan-1-ol (73486-81-4)	Quetiapine		1500		31 January 2024
<i>N</i> -Nitroso-quinapril	Quinapril		NMI		24 August 2023

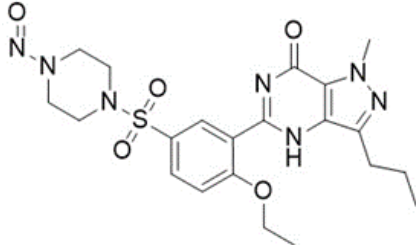
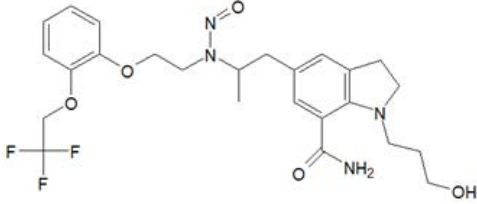
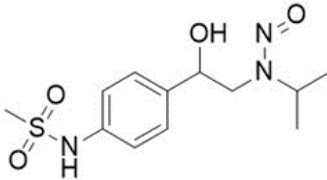
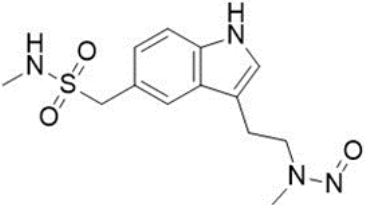
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-ramipril	Ramipril		1500	5	24 August 2023
<i>N</i> -nitroso ranolazine impurity 1 / 1-(2-methoxyphenoxy)-3-(4-nitrosopiperazin-1-yl)propan-2-ol	Ranolazine		400	3	31 January 2024
<i>N</i> -Nitrosorasagiline (2470278-90-9)	Rasagiline		100	2	20 July 2022 Updated 24 August 2023
<i>N</i> -Nitroso-reboxetine	Reboxetine		127		24 August 2023

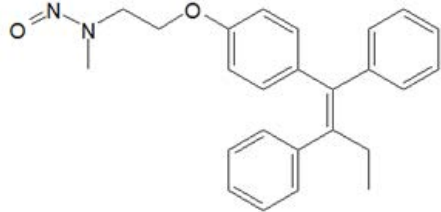
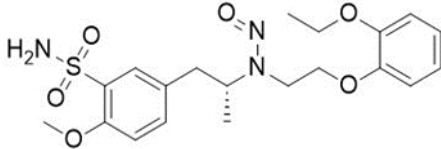
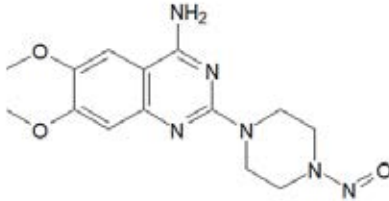
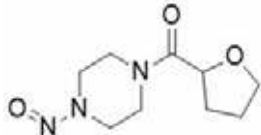
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-ribociclib impurity 1 / 7-cyclopentyl- <i>N,N</i> -dimethyl-2-((5-(4-nitrosopiperazin-1-yl)pyridine-2-yl)amino)-7 <i>H</i> -pyrrolo[2,3- <i>d</i>]pyrimidine-6-carboxamide	Ribociclib		400	3	31 January 2024
<i>N</i> -Nitroso-desformyl-riociguat / <i>N</i> -(4,6-diamino-2-(1-(2-fluorobenzyl)-1 <i>H</i> -pyrazolo[3,4- <i>b</i>]pyridin-3-yl)pyrimidin-5-yl)- <i>N</i> -methylnitrous	Riociguat		100	2	29 July 2024
<i>N</i> -Nitroso-2,4-thiazole amine / <i>N</i> -((2-isopropylthiazol-4-yl)methyl)- <i>N</i> -methylnitrous amide (NNTA)	Ritonavir		18	1	15 October 2024

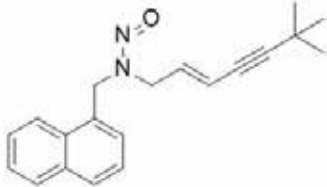
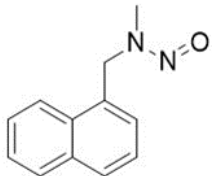

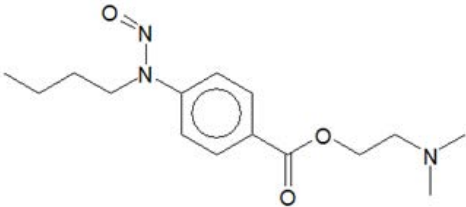
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<p><i>N</i>-Nitroso-rivaroxaban open-ring acid (<i>S</i>)-2-(2-((4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)(nitroso)amino)ethoxy) acetic acid</p>	Rivaroxaban		1500	4	31 January 2024
<p><i>N</i>-Nitroso-rivaroxaban amide / (<i>S</i>)-5-chloro-<i>N</i>-(2-hydroxy-3-(nitroso (4-(3-oxomorpholino)phenyl)amino)propyl)thiophene-2-carboxamide</p>	Rivaroxaban		1500	4	31 January 2024
<p>Rivaroxaban Nitroso Impurity 1 / <i>N</i>-(2-hydroxyethyl)-<i>N</i>-phenyl-nitrous amide (25413-76-7, <i>N</i>-Nitroso KCR-1)</p>	Rivaroxaban		1500	4	29 July 2024

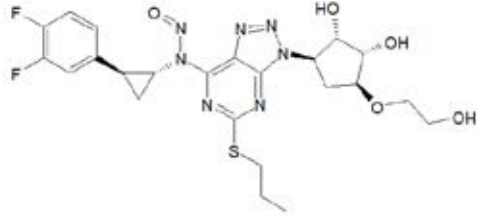
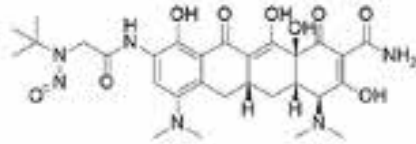
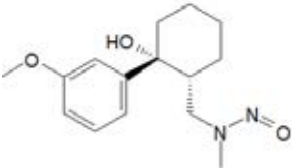
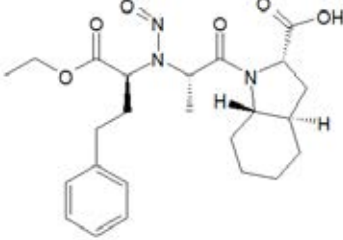
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
Rivaroxaban Nitroso Impurity 2 / <i>N</i> -(3-(1,3-dioxisoindolin-2-yl)-2-hydroxypropyl)- <i>N</i> -(4-(3-oxomorpholino)phenyl)nitrous amide	Rivaroxaban		1500	4	29 July 2024
Rivaroxaban Nitroso Impurity 5 / <i>N</i> -(3-chloro-2-hydroxypropyl)- <i>N</i> -(4-(3-oxomorpholino)phenyl)nitrous amide (<i>N</i> -Nitroso RVR-A)	Rivaroxaban		1500	4	29 July 2024
<i>N</i> -Nitroso-desmethyl-rivastigmine / [3-[(1 <i>S</i>)-1-[methyl(nitroso)amino]ethyl]phenyl] <i>N</i> -ethyl- <i>N</i> -methyl carbamate	Rivastigmine		100	2	15 October 2024

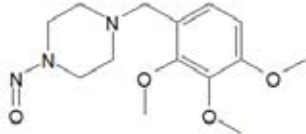
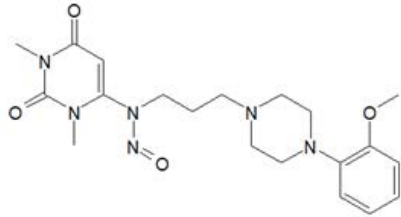
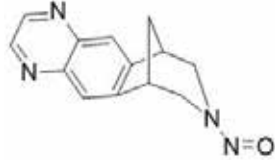
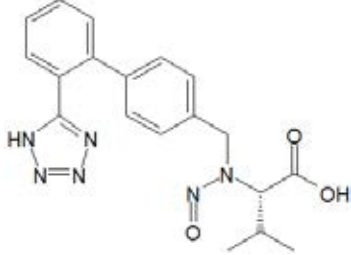
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso- <i>N</i> -desmethyl-rizatriptan / <i>N</i> -(2-(5-((1 <i>H</i> -1,2,4-triazol-1-yl)methyl)-1 <i>H</i> -indol-3-yl)ethyl)- <i>N</i> -methylnitrous amide	Rizatriptan		18	1	15 October 2024
<i>N</i> -Nitroso-salbutamol (2919946-71-5)	Salbutamol		1500	5	24 August 2023
<i>N</i> -Nitroso-sertraline	Sertraline		100	2	24 August 2023 Updated 16 October 2023 Updated 15 October 2024

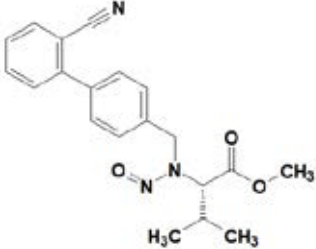
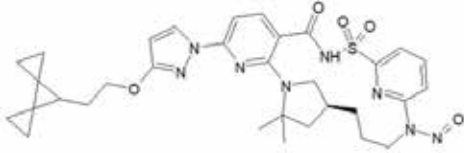
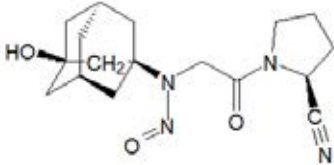
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-desmethyl-sildenafil	Sildenafil		400	3	31 January 2024
<i>N</i> -Nitroso-silodosin / 1-(3-hydroxypropyl)-5-[(2 <i>R</i>)-2-[nitroso-[2-[2-(2,2,2-trifluoroethoxy)phenoxy]ethyl]amino]propyl]-2,3-dihydroindole-7-carboxamide	Silodosin		1500	4	24 April 2024
<i>N</i> -Nitroso-sotalol (134720-07-3)	Sotalol		1500	4	24 August 2023
<i>N</i> -Nitroso-desmethyl sumatriptan	Sumatriptan		18	1	31 January 2024

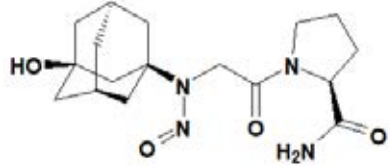
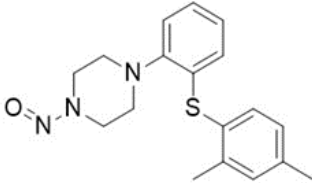
Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-desmethyl-tamoxifen / (<i>Z</i>)- <i>N</i> -(2-(4-(1, 2-diphenylbut-1-en-1-yl)phenoxy)ethyl)- <i>N</i> -methylnitrous amide	Tamoxifen		18	1	24 April 2024
<i>N</i> -Nitroso-tamsulosin (2892260-31-8)	Tamsulosin		1500	4	20 July 2022 Updated 24 August 2023
<i>N</i> -Nitroso terazosin impurity C / <i>N</i> -nitroso 6,7-dimethoxy-2-(1-piperazinyl)-4-quinazolinamine / <i>N</i> -nitroso 2-(1-piperazinyl)-4-amino-6, 7-dimethoxyquinazoline	Terazosin		400	3	24 April 2024
<i>N</i> -Nitroso terazosin impurity N / (4-nitrosopiperazin-1-yl)(tetrahydrofuran-2-yl)methanone (2470438-57-2)	Terazosin		400	3	24 April 2024

Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-desmethyl-terbinafine / (<i>E</i>)- <i>N</i> -(6,6-dimethylhept-2-en-4-yn-1-yl)- <i>N</i> -(naphthalen-1-ylmethyl)nitrous amide (NDT / NHNA)	Terbinafine		18	1	31 January 2024
<i>N</i> -Nitroso-terbinafine impurity A <i>N</i> -methyl- <i>N</i> -(naphthalen-1- ylmethyl)nitrous amide (296760-88-8, NTA / NMNA)	Terbinafine		18	1	31 January 2024
<i>N</i> -Nitroso-terbinafine degradant <i>N</i> -[(2 <i>E</i>)-6,6-dimethyl-2-hepten-4-yn-1-yl]- <i>N</i> -nitrosomethanamine (NTD / NHMA)	Terbinafine		18	1	31 January 2024
<i>N</i> -Nitroso-tetracaine	Tetracaine		400	3	31 January 2024

Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-ticagrelor (2476859-55-7)	Ticagrelor		1500	5	31 January 2024
<i>N</i> -Nitroso-tigecycline / (4 <i>S</i> , 4 <i>aS</i> , 5 <i>aR</i> , 12 <i>aS</i>)-9-(2-(<i>tert</i> - butyl(nitroso)amino)acetamido)-4, 7- bis(dimethylamino)-3, 10, 12, 12 <i>a</i> - tetrahydroxy-1, 11-dioxo-1, 4, 4 <i>a</i> , 5, 5 <i>a</i> , 6, 11, 12 <i>a</i> -octahydrotetracene-2- carboxamide	Tigecycline		NMI		29 July 2024
<i>N</i> -Nitroso-desmethyl-tramadol / <i>N</i> -[[[(1 <i>R</i> ,2 <i>R</i>)-2-hydroxy-2-(3- methoxyphenyl)cyclohexyl]methyl]- <i>N</i> - methylnitrous amide	Tramadol		18	1	29 July 2024
<i>N</i> -Nitroso-trandolapril / (2 <i>S</i> ,3 <i>aR</i> ,7 <i>aS</i>)-1-(<i>N</i> -((<i>S</i>)-1-ethoxy-1-oxo-4- phenylbutan-2-yl)- <i>N</i> -nitroso-L- alanyl)octahydro-1 <i>H</i> -indole-2-carboxylic acid	Trandolapril		1500	5	29 July 2024

Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-trimetazidine (92432-50-3, NTMZ)	Trimetazidine		400	3	24 August 2023
<i>N</i> -Nitroso-urapidil	Urapidil		1500	4	31 January 2024
<i>N</i> -Nitroso-varenicline (2755871-02-2, NNV)	Varenicline		400	3	20 July 2022 Updated 16 October 2023
<i>N</i> -Nitroso-desvaleryl-valsartan / (<i>S</i>)-2-(((2'-(1 <i>H</i> -tetrazol-5-yl)- [1,1'- biphenyl]-4-yl) methyl)(nitrosoamino)- 3- methylbutanoic acid (2254485-68-0)	Valsartan		NMI		29 July 2024

Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso-valsartan cyano-desvalerylmethylester / (S)-Methyl 2-(((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)(nitroso) amino)-3-methylbutanoate	Valsartan		100	2	15 October 2024
<i>N</i> -Nitroso-vanzacaftor / (1 <i>S,Z</i>)-26-(3-(2-(dispiro[2.0.24.13]heptan-7-yl)ethoxy)-1 <i>H</i> -pyrazol-1-yl)-15,15-dimethyl-61,62-dihydro-5-thia-4,7-diaza-2(2,3),6(6,2)-dipyridina-1(1,3)-pyrrolidinacyclodecaphan-3-one 5,5-dioxide	Vanzacaftor		1500	4	15 October 2024
<i>N</i> -Nitroso-vildagliptin	Vildagliptin		1500	5	24 August 2023

Nitrosamine (CAS number, Abbreviation)	Source ²	Nitrosamine structure	AI limit (ng/day) ¹	CPCA Potency category	First published
<i>N</i> -Nitroso vildagliptin amide impurity / (<i>S</i>)-1-(2-(((1 <i>R</i> , 3 <i>R</i> , 5 <i>R</i> , 7 <i>S</i>)-3-hydroxyadamantan-1-yl)(nitroso)amino)acetyl)pyrrolidine-2-carboxamide	Vildagliptin		1500	5	15 October 2024
<i>N</i> -Nitroso-vortioxetine	Vortioxetine		400	3	24 August 2023