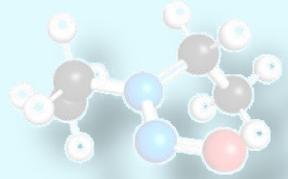


# NITROSAMINES & NDSRI (GENOTOXIC STANDARDS)



**[Ready Stock Inventory]**



**CLEANCHEM LABORATORIES LLP**

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## Cleanchem at a Glance

- **Contract Research Organization (CRO / CDMO / CRAMS)**
- **Custom Technology Development**
- ***R&D Based* Products & Services to Pharma, Chemical & allied industries**
- **Since 7 years of dedicated services to *300+ clients* Worldwide**
- ***World class R&D facility* of 20,000 Sq.Ft area with 60+ scientists**
- **4000+ Impurities and Reference Standards in *Ready stock***
- **Largest Inventory of *Genotoxic Standards* around the globe**
- **Pioneer in development of *Nitrosoamines and Azido Standards***



**ISO 17034:2016**  
General Requirements for the Competence of  
Reference Material Producers



### PRODUCTS

- **Impurity References Standard**
- **Working Standard**
- **Nitrosamine (Genotoxic standards)**
- **Metabolites & Glucoronides**
- **Agrochemical Standards**
- **API Intermediates**
- **Catalytic Application**

### SERVICES

- **Custom Synthesis (CRAMS)**
- **Contract Research and Custom Technology Development**
- **Unknown Impurity Isolation & Identification**
- **Short Path Distillation (SPDU)**
- **High Temperature & Pressure Reaction**

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## Services we offer

### CUSTOM SYNTHESIS SERVICES

- Custom Synthesis (CRAMS)
- KSM & API Intermediate Development
- Drug Discovery – NCE Library Synthesis
- Contract Research and Technology Development
- Eco-friendly Process Development
- High Temperature & Pressure Reactions



### PURIFICATION SERVICES

- Preparative HPLC Purification
- Flash Chromatography Purification
- Silica & Resin Based Chromatographic Purification
- Unknown Impurity Isolation, Characterization & Identification
- Short Path Distillation



### ANALYTICAL SERVICES

- LCMS-MS Analysis Triple Quadruple
- Direct Mass analysis
- LCMS/MS method development
- HPLC Routine Analysis
- HPLC Method Development
- GC Routine Analysis
- GCMS/ GC Method Development



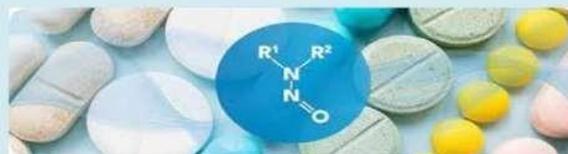
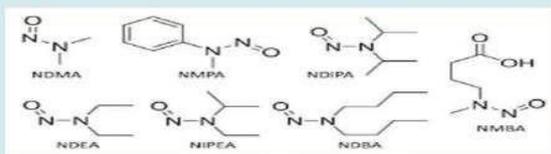
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## Nitrosamines & Genotoxic Standards

- **Pioneer** in Development of **Nitrosamine** Standards
- USFDA has identified cancer causing NDMA in **Ranitidine** & **Losartan**, and many more drugs
- NDMA is formed in several industrial processes
- FDA recommends that manufacturers to take action to quantify nitrosoamine levels
- **200+ genotoxic impurities** like NDMA, NDEA and NMBA impurities
- **Azido** compounds of Irbesartan, Losartan, Valsartan, Olmesartan



Sr. No.	Material Name	Abbr	CAS No.	Sr No.	Material Name	Abbr	CAS No.
1	N-Nitroso Di- Ethyl Amine	NDEA	55-18-5	13	N- Nitroso Methyl Butyl Amine	NMBA	7068-83-9
2	N-Nitroso Di methyl Amine	NDMA	62-75-9	14	N- Nitroso Methyl Isopropyl Amine	NMIPA	30533-08-5
3	N-Nitroso Di- isopropyl Amine	NDIPA	601-77-4	15	N-Nitroso Isopropyl Ethyl Amine	NEIPA	16339-04-1
4	N- Nitroso Piperidine	NPIP	100-75-4	16	N- Nitroso Piperazine	NPIPZB	140-79-4
5	N- Nitroso Dibutyl Amine	NDBA	924-16-3	17	N-Nitroso Piperazine (Monomer)	NPIPZM	5632-47-3
6	N-Nitroso Pyrrolidine	NPYRN	930-55-2	18	N- Nitroso Di-N-Propyl Amine	NDPA	621-64-7
7	N-Nitroso Morpholine	NMOR	59-89-2	19	N-Nitroso N-Benzyl Methyl Amine	NBMA	937-40-6
8	N - Nitroso Ethyl Methyl Amine	NMEA	10595-95-6	20	N- Nitroso 2.6 Dichloro purine	NDCP	5451-40-1
9	N- Nitroso Methyl Piperazine	NMPIPZ	16339-07-4	21	N- Nitrosodiphenylamine	NDPHA	86-30-6
10	N- Nitroso- 4 Methyl Amino Butyric Acid	NMBA	61445-55-4	22	N- Nitroso Dibenzylamine	NDBzA	5336-53-8
11	N- Nitroso N-Ethyl Aniline	NEPhA	612-64-6	23	N- Nitroso Diamyl Amine	NDA	13256-06-09
12	N- Nitroso N-Methyl Aniline	NMA	614-00-6	24	N- Nitroso Ethyl Propyl Amine	NEIA	25413-61-0

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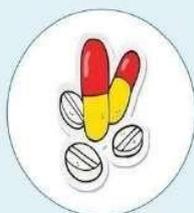
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## Our Products

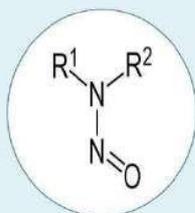
- Impurity References Standard
- Working Standard
- Nitrosamine & Azido Standards
- Metabolites
- Glucuronides
- API Intermediates & KSM
- Agrochemical Standards
- Catalyst / Catalytic application
- Bile Salts



## Our Strength



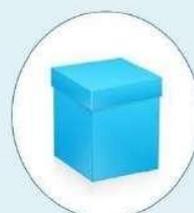
**4000+**  
**Impurities**  
**Ready Stock**



**200+**  
**Nitrosoamine**  
**Ready Stock**



**300+ Clients**  
**Worldwide**



**Assurance of**  
**Packaging**



**Quick**  
**Delivery**

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## Custom Synthesis Services

- Custom Synthesis (CRAMS)
- Impurity Synthesis
- FTE Services
- KSM Synthesis
- API Intermediate Development
- Drug Discovery – NCE Library Synthesis
- Contract Research & Technology Development
- Eco-friendly Process Development
- High Temperature & Pressure Reactions



### Certifications



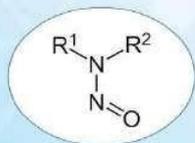
ISO 17034:2016  
General Requirements for the Competence of  
Reference Material Producers



### Our Strength



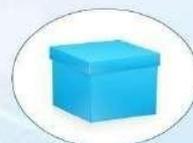
**4000+ Impurities  
Ready Stock**



**200+ Nitrosoamine  
Ready Stock**



**300+ Clients  
Worldwide**



**Assured  
Packaging**



**Quick  
Delivery**

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## Advanced Purification Services

- **Preparative HPLC Purification**
- **Flash Chromatography Purification**
- **Silica Based Chromatographic Purification**
- **Resin Based Chromatographic Purification**
- **Unknown Impurity Isolation & Identification**
- **Short Path Distillation**
- **Purification of Fermentation Products**
- **Purification of Natural Products**
- **Purification of Peptides & Proteins**

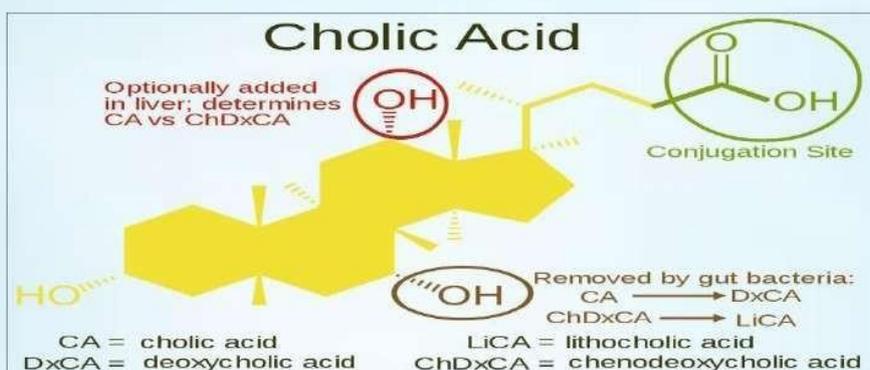


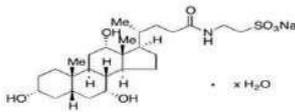
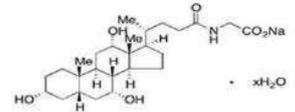
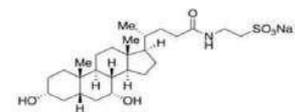
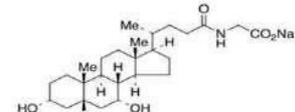
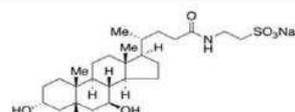
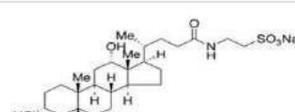
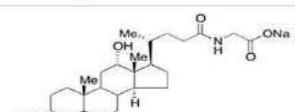
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## Bile Salts



Sr. No	Bile Salt	Structure
1	<b>Sodium Taurocholate</b> <b>Chemical name:</b> Taurocholic Acid Sodium Salt Hydrate <b>CAS No. 345909-26-4</b>	
2	<b>Sodium Glycocholate</b> <b>Chemical name:</b> Glycocholic Acid Hydrate Sodium Salt <b>CAS No. 345909-26-4</b>	
3	<b>Sodium Taurochenodeoxycholate</b> <b>Chemical name:</b> Taurochenodeoxycholic Acid Sodium Salt <b>CAS No. 6009-98-9</b>	
4	<b>Sodium Glycochenodeoxycholate</b> <b>Chemical name:</b> Glycochenodeoxycholic Acid Sodium Salt <b>CAS No. 16564-43-5</b>	
5	<b>Sodium Tauroursodeoxycholate</b> <b>Chemical name:</b> Tauroursodeoxycholic Acid Sodium Salt <b>CAS No. 35807-85-3</b>	
6	<b>Sodium Taurodeoxycholate</b> <b>Chemical name:</b> Taurodeoxycholic Acid Sodium Salt <b>CAS No. 207737-97-1</b>	
7	<b>Sodium Glycodeoxycholate</b> <b>Chemical name:</b> Glycodeoxycholic Acid Sodium Salt <b>CAS No. 16409-34-0</b>	

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## INTRODUCTION

The manufacturers of API's and drug products should take steps to detect and prevent unacceptable levels of nitrosamine impurities in pharmaceutical products.

FDA has been investigating the presence of nitrosamine impurities in certain drug products. Since 2018, several drug products including ARBs, ranitidine, nizatidine, and metformin have been found to contain unacceptable levels of nitrosamines.

The discovery of nitrosamines in some types of drug products led FDA and other international regulators to conduct a detailed analysis of these impurities in affected APIs and drug products.

In June 2018, FDA was informed of the presence of an impurity identified as Nitrosodimethylamine (NDMA) in the ARB valsartan

Through investigation, the Agency determined that numerous lots of valsartan and a few other ARB drug products from different manufacturers contained unacceptable levels of nitrosamines.

The drug manufacturers voluntarily recalled the affected batches of these drugs.

In December 2019, FDA became aware that some metformin diabetes medicines in other countries were reported to have NDMA.

Based on that testing, FDA requested that identified applicants voluntarily recall these lots of the extended-release metformin.

In May 2020, further FDA testing revealed that certain lots of metformin extended-release formulation contained NDMA above the Agency's recommended acceptable intake limit.

FDA continues to investigate possible NDMA impurities in metformin and other drug and will advise companies on appropriate action. Based on the Agency's current understanding, this guidance discusses potential root causes of nitrosamine formation and advises API and the drug manufacturers that they should

1. Conduct risk assessments of their approved or marketed products and products with pending applications
2. Take appropriate actions to reduce or prevent the presence of nitrosamines in APIs and drug

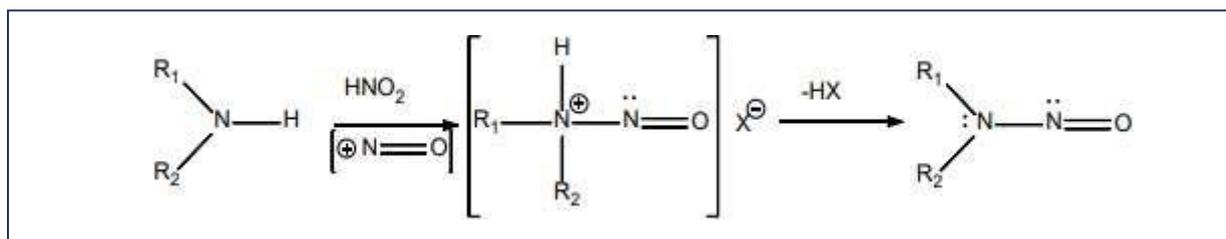
### **General Root Causes for the Presence of Nitrosamine Impurities in APIs**

1. General Conditions That Lead to Nitrosamine Formation
  - Formation of nitrosamines is possible in the presence of secondary, tertiary, or quaternary amines and nitrite salts under acidic reaction conditions
  - Under these conditions, nitrite salts may form nitrous acid, which can react with an amine to form a nitrosamine
2. Sources of Secondary, Tertiary, and Quaternary Amines That Can Form Nitrosamines
  - The API intermediates, or starting materials may contain secondary or tertiary amine functional groups.
  - Tertiary and quaternary amines may also be added intentionally as reagents or catalysts.
  - All of these types of amines can react with nitrous acid or other nitrosating agents to form nitrosamines
3. Contamination in Vendor-Sourced Raw Materials
  - Nitrosamine impurities can be introduced when vendor-sourced materials, including starting materials and raw materials, are contaminated.
  - Nitrosamine contamination has occurred when fresh solvents (ortho-xylene, toluene, and methylene chloride) were contaminated during shipment from vendors

## Nitrosamine Impurities

The term nitrosamine describes a class of compounds having the chemical structure of anitroso group bonded to an amine ( $R_1N(-R_2)-N=O$ )

The Representative Reaction to Form Nitrosamines is mentioned below-



Nitrosamine compounds are potent genotoxic agents in several animal species and some are classified as probable or possible human carcinogens by the International Agency for Research on Cancer (IARC).

The guidance recommends control of any known mutagenic carcinogen, such as nitroso-compounds, at or below a level such that there would be a negligible human cancer risk associated with the exposure to potentially mutagenic impurities

FDA recommended that manufacturers take action to quantify nitrosamine levels in their drugs and to reduce or remove these impurities when above the interim limit.

FDA has used the interim limits to guide immediate decision-making for additional evaluation and product recalls while balancing the risks of potential long-term carcinogen exposure with disruption to clinical management of patients.

**FDA has identified seven nitrosamine impurities that theoretically could be present in drug products:**

N-Nitrosodimethylamine (NDMA)

N-Nitrosodimethylamine (NDEA)

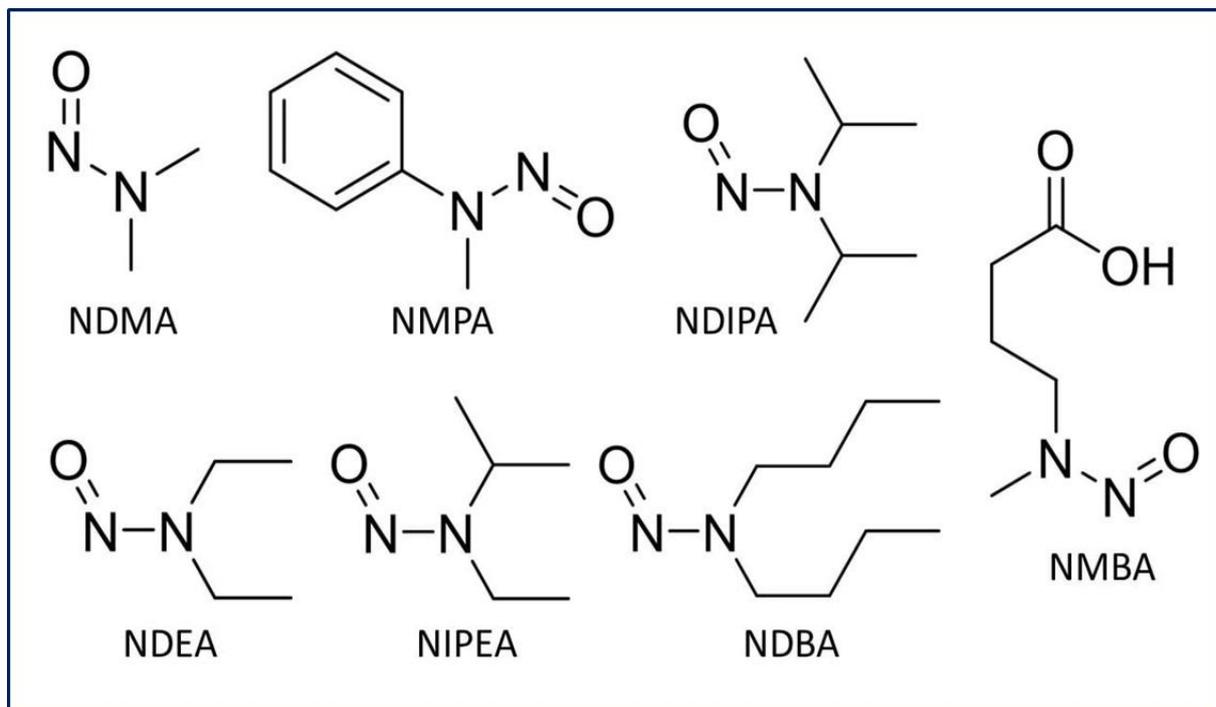
N-nitroso-N-methyl-4-aminobutanoic acid (NMBA)

N-nitrosoisopropylethyl amine (NIPEA)

N-nitrosodiisopropylamine (NDIPA)

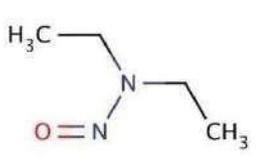
N-nitrosodibutylamine (NDBA)

N-nitrosomethylphenylamine (NMPA)



## CERTIFICATE OF ANALYSIS

Date: 15-06-2022

<b>Product Name</b>	<b>N-Nitrosodiethylamine(NDEA)</b>		
<b>Chemical name</b>	N-Ethyl-N- nitrosoethanamine		
<b>Structure</b>			
<b>Batch No.</b>	CL-50-NDEA-15	<b>CAS No.</b>	55-18-5
<b>Analysis Date:</b>	April-2022	<b>Retest Date:</b>	March-2024
<b>Mol. Formula</b>	C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O	<b>Molecular Wt.</b>	102.14
<b>Long term Storage Condition</b>	Store at 2-8 °C in well closed container under Nitrogen		
<b>Handling and Transit condition</b>	25-30 °C in well closed container under Nitrogen		

Test	Result
Appearance	Yellow liquid
Solubility	Chloroform
<sup>1</sup> HNMR	Conforms to structure
<sup>13</sup> CNMR	Conforms to structure
MASS	Conforms to structure
FTIR	Conforms to structure
Non volatile impurity by TGA	0.0 %
Chromatographic purity	98.26 %
Potency	98.26 %
Potency = % Chromatographic purity- % Non volatile impurity by TGA=98.26 %-0.0 % = 98.26 %	
<b>Note: N-Nitrosodiethylamine is a highly toxic semi-volatile organic compound and a suspected human carcinogen. Handle the material carefully with proper safety measures.</b>	

	Prepared By	Checked By	Approved by
Signature			
Date			

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CL-50-NDEA-15\_proton-1-2.jdf  
045499



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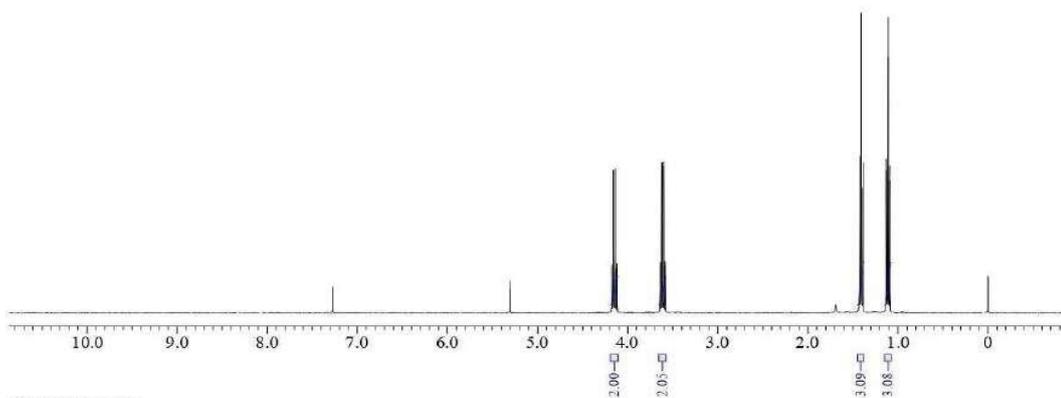
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trapezoid( 0[Hz], 0[Hz], 80[Hz], 100[Hz] )
zerofill( 4 )
ft( 1, TRUE, TRUE )
machinphase
ppm
auto_reference( 5[Hz], TRUE )
Derived from: CL-50-NDEA-15_proton-1-1.jdf

```

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Instrument    = NMR-400MHz(JEOL)
Instrument id = NMR-01
Author       = anil406
Reviewed by  = Ramesh Yadav
Solvent      = CHLOROFORM-D
Spectrometer = JNM-ECZ400S/L1
Experiment   = proton.jxp
Creation Time = 7-SEP-2020 15:59:47
Revision Time = 7-SEP-2020 17:57:40
Acquisition Parameter
X_Domain     = Proton
X_Offset     = 7[ppm]
X_Sweep      = 9.05576369[kHz]
Scans        = 16
Relaxation_Delay = 2[s]

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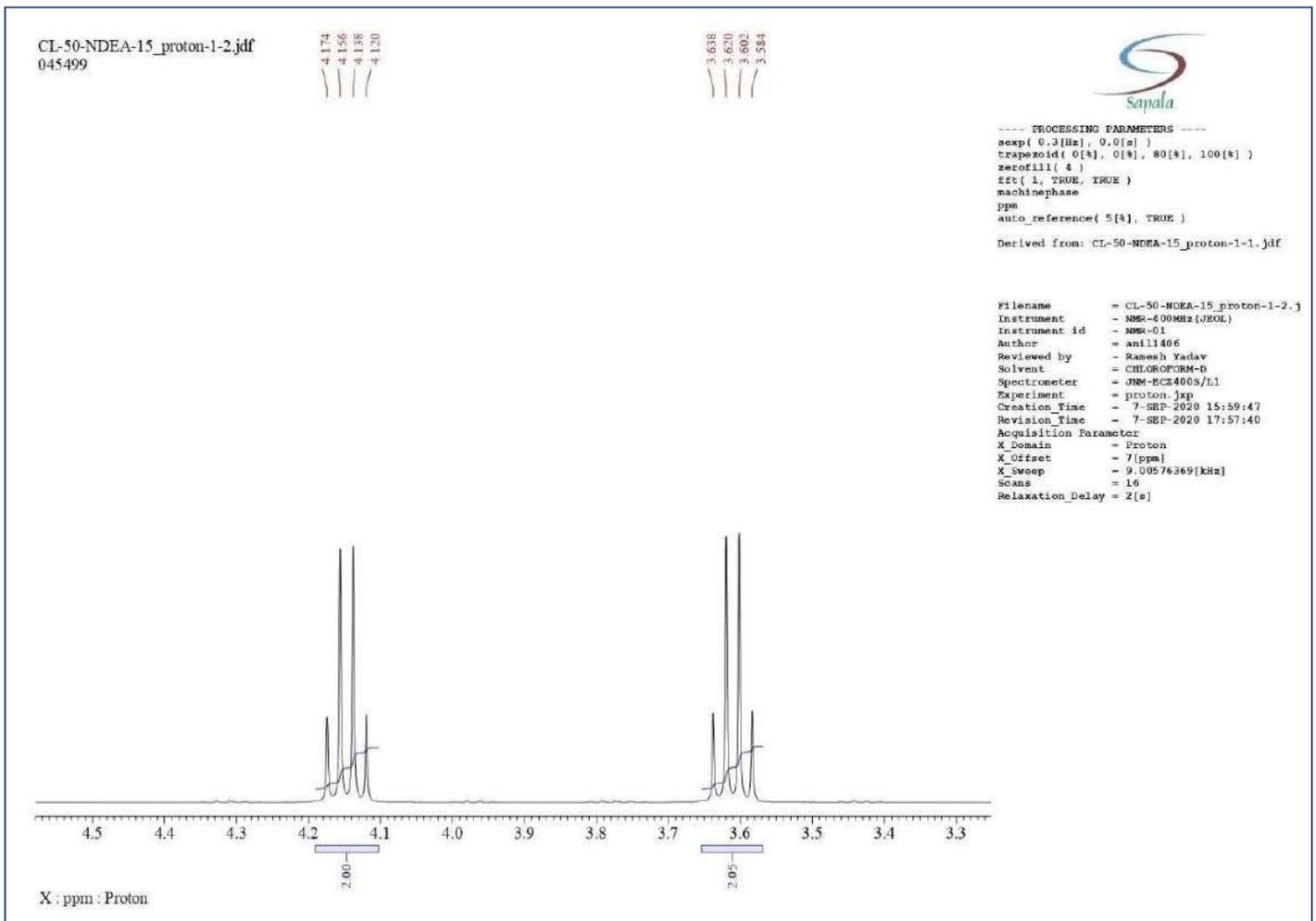
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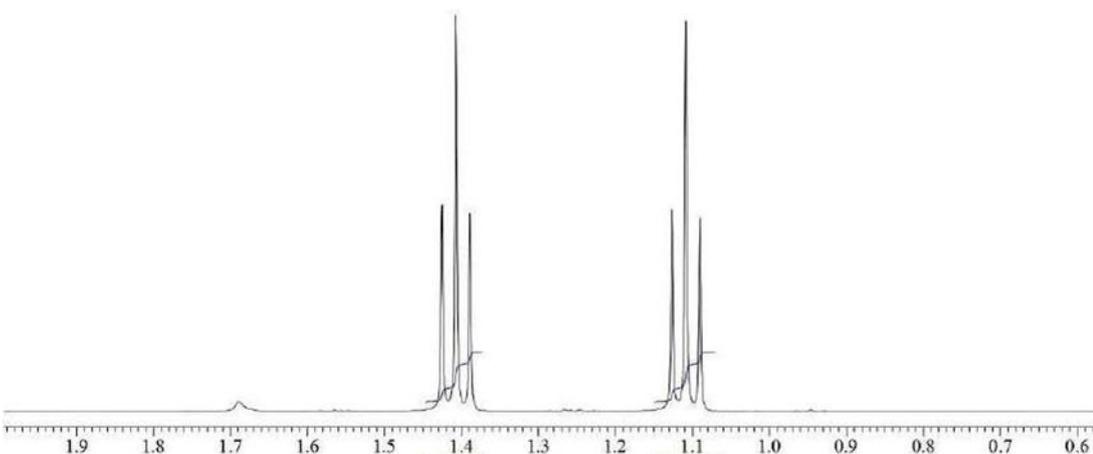
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045499

1.425  
1.407  
1.389  
  
1.127  
1.109  
1.091



```
----- PROCESSING PARAMETERS -----
sexp( 0.3[Hz], 0.0[s] )
trapezoid( 0[%], 0[%], 80[%], 100[%] )
zerofill( 4 )
fit( 1, TRUE, TRUE )
machinephase
ppm
auto_reference( 5[%], TRUE )
Derived from: CL-50-NDEA-15_proton-1-1.jdf
```

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Instrument     - NMR-400MHz(JEOL)
Instrument Id  - NMR-01
Author        - anil1406
Reviewed by   - Ramesh Yadav
Solvent       - CHLOROFORM-D
Spectrometer  - JNM-ECZ400S/L1
Experiment    - proton.jxp
Creation Time - 7-SEP-2020 15:59:47
Revision Time - 7-SEP-2020 17:57:40
Acquisition Parameter
X_Domain      - Proton
X_Offset      - 7[ppm]
X_Sweep       - 9.00576369[kHz]
S0ans        - 16
Relaxation_Delay = 2[s]
```



X : ppm : Proton

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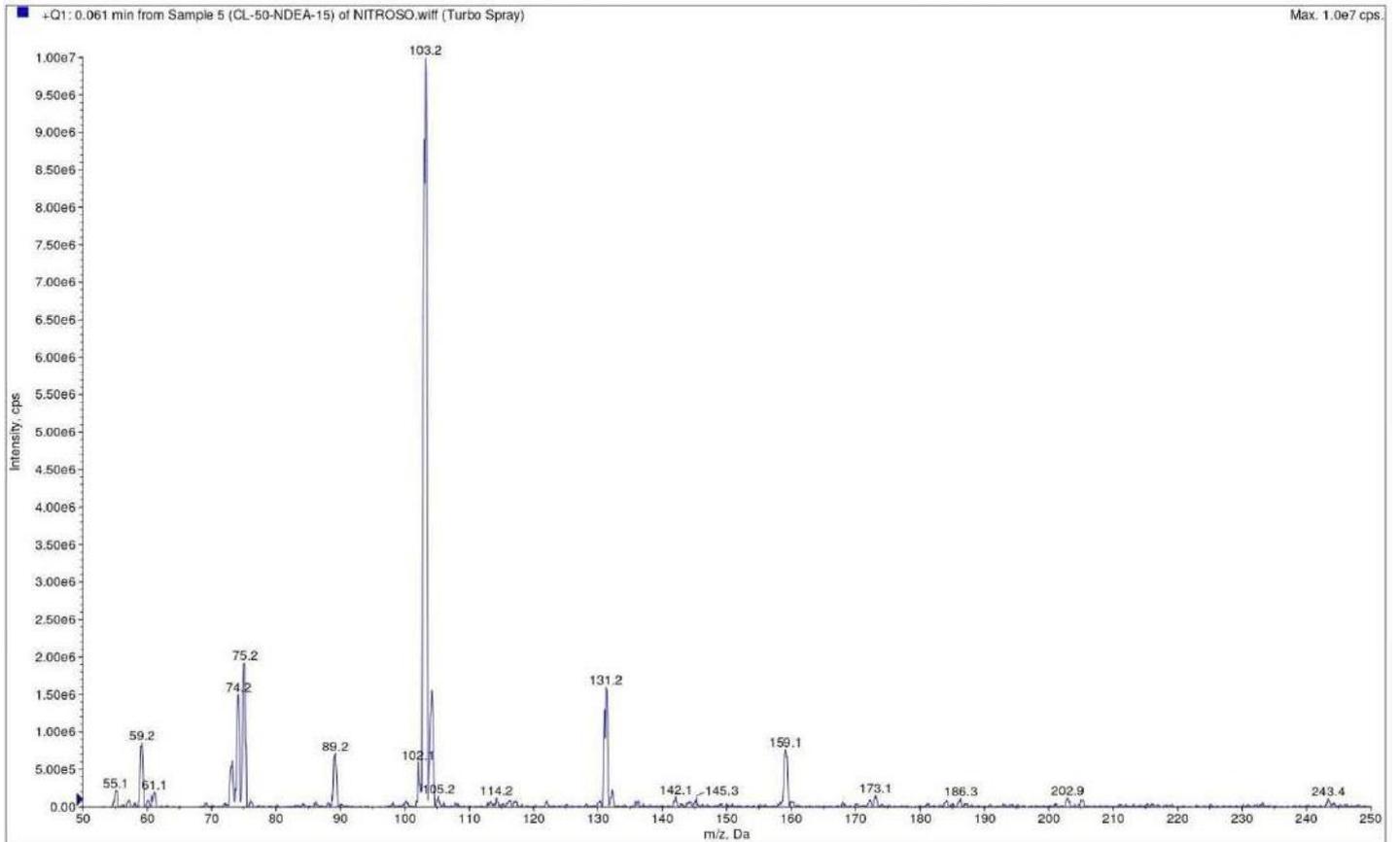
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CLEANCHEM LABORATORIES

Printing Date: 09/09/2020

Sample Name: CL-50-NDEA-15

Acq. Time: 16:07



Analysed By:

Operator: ADMN

Printing Date: 09/09/2020

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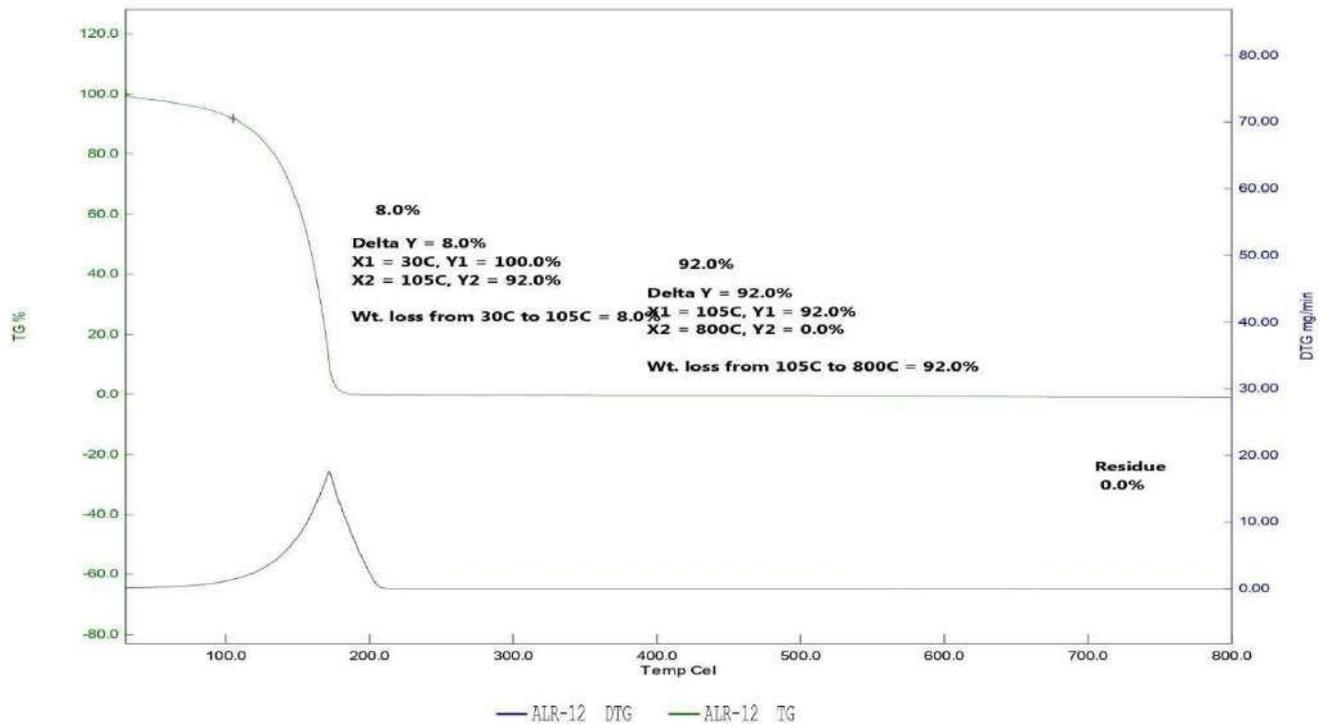
Certification & Accreditation  
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Module: TGA  
Data Name: ALR-12  
Measurement Date: 9/9/2020  
Sample Name: CL-50-NDEA-15  
Sample Weight: 17.384 mg  
Reference Name: Pt  
Reference Weight: 0.000 mg

Temperature Program:  
1\*    Cel    Cel    Cel/min    min    s  
      30    800    10    0    0.5

Comment:  
Operator: Dr RAO  
Gas1: Nitrogen  
Gas2:  
Pan: Pt



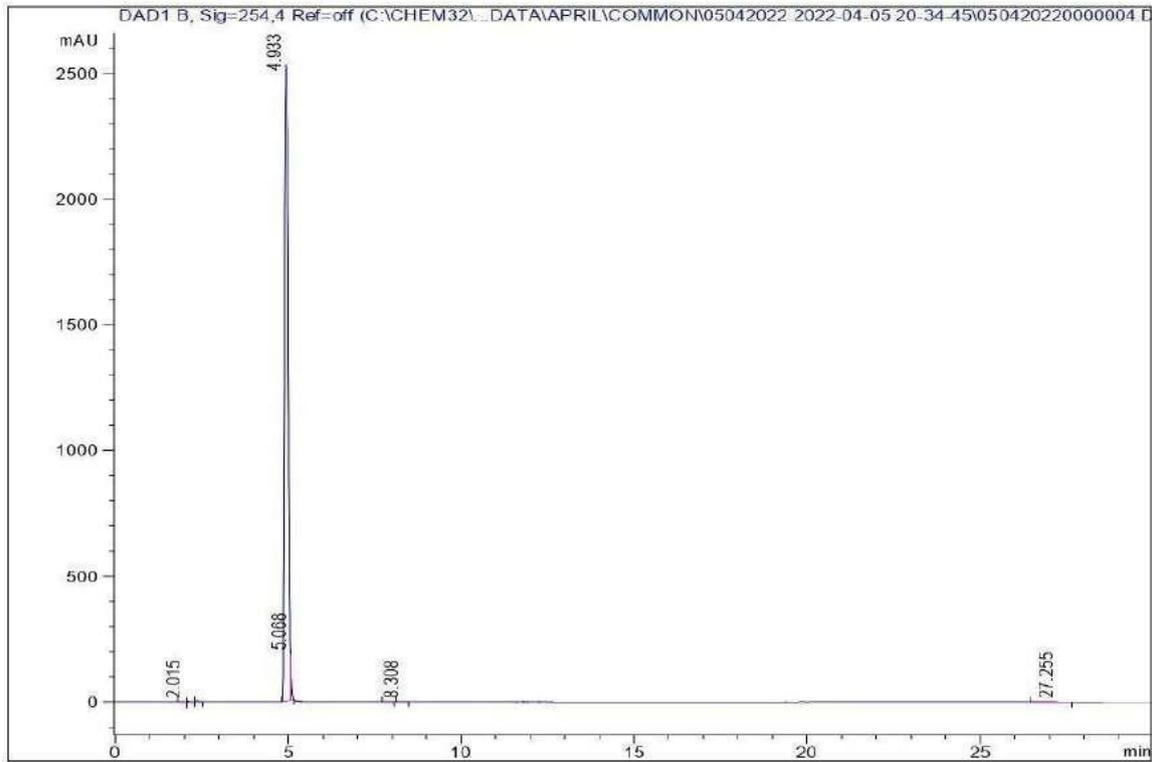
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Data file : C:\CHEM32\1\2022\DATA\APRIL\COMMON\05042022 2022-04-05 20-3->  
 Sample Name: CL-50-NDEA-15 1

Injection Date : 05-04-2022 Seq Line : 4  
 Injection Time : 22:10:18 Location : Vial 86  
 Sample Name : CL-50-NDEA-15 Inj. No. : 1  
 Inj. Vol. : 10 µl  
 Acq. Method : C:\Chem32\1\2022\DATA\APRIL\COMMON\05042022 2022-04-05 20->  
 Analysis Method : C:\CHEM32\1\2022\METHOD\APRIL\COMMON\INHOUSE.M



Customized Report: Short

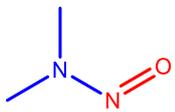
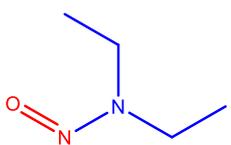
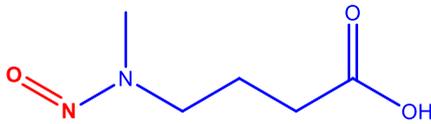
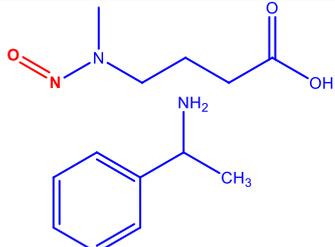
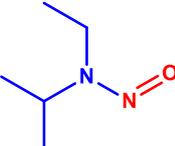
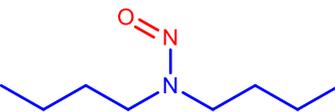
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3.00	2.38	8.05	34.35	0.16	
4.00	4.93	2529.74	20762.64	98.26	NDEA
5.00	5.07	183.65	212.54	1.01	
6.00	7.91	1.38	11.77	0.06	
7.00	8.31	0.21	2.30	0.01	
8.00	27.25	1.36	57.94	0.27	



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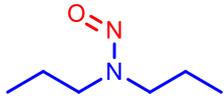
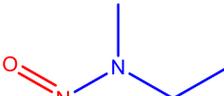
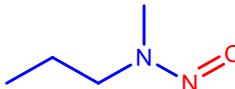
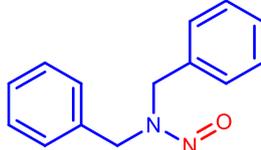
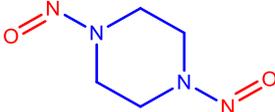
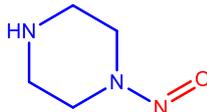
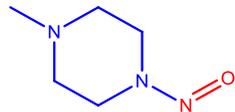
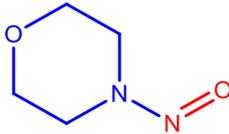
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SR. NO	NITROSOAMINE	PARENT API	STRUCTURE
1	<b>N-Nitrosodimethylamine</b> <b>Chemical Name:</b> N-Methyl-N-nitroso methanamine <b>MF:</b> C <sub>2</sub> H <sub>6</sub> N <sub>2</sub> O <b>MW:</b> 74.08 <b>CAS No:</b> 62-75-9	Valsartan, Losartan and Irbesartan	
2	<b>N-Nitrosodiethylamine (NDEA)</b> <b>Chemical Name:</b> N-Ethyl-N-nitrosoethanamine <b>MF:</b> C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <b>MW:</b> 102.1 <b>CAS No:</b> 55-18-5	Valsartan, Losartan and Irbesartan	
3	<b>N-Nitroso-N-methyl-4-aminobutyric Acid (NMBA)</b> <b>Chemical Name:</b> 4-(Methylnitrosoamino)butanoic Acid <b>MF:</b> C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 146.15 <b>CAS No:</b> 61445-55-4	Valsartan	
4	<b>N-Nitroso-N-methyl-4-aminobutyric Acid PEA</b> <b>Chemical Name:</b> 4-[methyl(nitroso)amino] butanoic acid-1-phenylethan-1-amine (1/1) <b>MF:</b> C <sub>13</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> <b>MW:</b> 267.2 <b>CAS No.:</b> NA	Valsartan	
5	<b>N-Nitrosodiisopropylamine (NDIPA)</b> <b>Chemical Name:</b> N-(1-Methylethyl)-N-nitroso-2-propanamine <b>MF:</b> C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <b>MW:</b> 130.19 <b>CAS No:</b> 601-77-4	Valsartan	
6	<b>N-Nitroso isopropyl ethylamine (NEIPA)</b> <b>Chemical Name:</b> 1-Methyl-N-nitrosodiethylamine <b>MF:</b> C <sub>5</sub> H <sub>12</sub> N <sub>2</sub> O <b>MW:</b> 116.16 <b>CAS No:</b> 16339-04-1	Valsartan	
7	<b>N-Nitrosodibutylamine</b> <b>Chemical Name:</b> N-Butyl-N-nitroso-1-butanamine <b>Mol F</b> C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <b>MW:</b> 158.3 <b>CAS No:</b> 924-16-3	Valsartan	



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8	<b>N-Nitroso di n-Propyl amine</b> <b>Chemical Name:</b> N-Nitroso-N-propyl-1-propanamine <b>MF:</b> C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <b>MW:</b> 130.19 <b>CAS No:</b> 621-64-7	
9	<b>N-Nitrosoethylmethyamine</b> <b>Chemical Name:</b> N-Methyl-N-nitrosoethanamine <b>MF:</b> C <sub>3</sub> H <sub>8</sub> N <sub>2</sub> O <b>MW:</b> 88.1 <b>CAS No:</b> 10595-95-6	
10	<b>N-Nitrosomethylpropylamine</b> <b>Chemical Name:</b> N-Methyl-N-nitrosopropylamine <b>MF:</b> C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <b>MW:</b> 102.1 <b>CAS No:</b> 924-46-9	
11	<b>N-Nitrosodibenzylamine</b> <b>Chemical Name:</b> N,N-Dibenzylnitrosamine <b>MF:</b> C <sub>14</sub> H <sub>14</sub> N <sub>2</sub> O <b>MW:</b> 226.27 <b>CAS No:</b> 5336-53-8	
12	<b>N-Nitroso-N-methyl N- phenylamine</b> <b>Chemical Name:</b> N-Methyl-N-nitrosoaniline <b>MF:</b> C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> O <b>MW:</b> 136.15 <b>CAS No:</b> 614-00-6	
13	<b>N- Nitrosopiperazine DIMER</b> <b>Chemical Name:</b> N,N'-Dinitrosopiperazine <b>MF:</b> C <sub>4</sub> H <sub>8</sub> N <sub>4</sub> O <sub>2</sub> <b>MW:</b> 144.1 <b>CAS No:</b> 140-79-4	
14	<b>N- Nitrosopiperazine MONOMER</b> <b>Chemical Name:</b> N-Mononitrosopiperazine <b>MF:</b> C <sub>4</sub> H <sub>9</sub> N <sub>3</sub> O <b>MW:</b> 115.13 <b>CAS No:</b> 5632-47-3	
15	<b>N-Methyl-N'-nitrosopiperazine</b> <b>Chemical Name:</b> 1-Methyl-4-nitrosopiperazine <b>MF:</b> C <sub>5</sub> H <sub>11</sub> N <sub>3</sub> O <b>MW:</b> 129.16 <b>CAS No:</b> 16339-07-4	
16	<b>N-Nitroso Morpholine</b> <b>Chemical Name:</b> 4-Nitrosomorpholine <b>MF:</b> C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 116.12 <b>CAS No:</b> 59-89-2	

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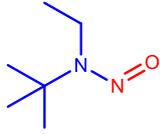
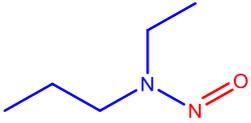
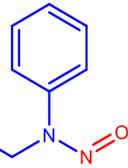
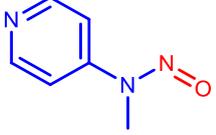
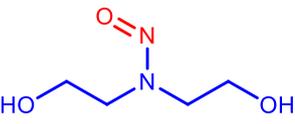
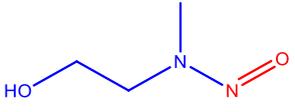
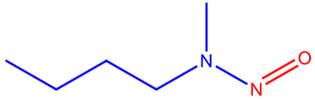
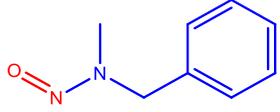
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17	<p><b>N-tert-Butyl-N-ethylnitrosamine</b> <b>Chemical Name:</b> N-Ethyl-2-methyl-N-nitroso- 2-propanamine <b>MF:</b> C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O <b>MW:</b> 130.18 <b>CAS No:</b> 3398-69-4</p>	
18	<p><b>N-(3-amino propyl)-N-methyl nitrosamine (NMPDA)</b> <b>Chemical Name:</b> N-methyl-N-nitrosopropane-1,3-diamine <b>MF:</b> C<sub>4</sub>H<sub>11</sub>N<sub>3</sub>O <b>MW:</b> 117.09 <b>CAS No:</b> NA</p>	
19	<p><b>N- Nitroso N-Ethyl N-Propyl Amine Chemical Name:</b> N-Ethyl-N- nitrosopropylamine <b>MF:</b> C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW:</b> 116.16 <b>CAS No:</b> 25413-61-0</p>	
20	<p><b>N-Nitroso-N-ethylaniline</b> <b>Chemical Name:</b> N-Ethyl-N-nitrosoaniline <b>MF:</b> C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 150.18 <b>CAS No:</b> 612-64-6</p>	
21	<p><b>4-Nitroso methyl amino pyridine</b> <b>Chemical Name:</b> N-methyl-N-pyridin-4-ylnitrous amide <b>MF:</b> C<sub>6</sub>H<sub>7</sub>N<sub>3</sub>O <b>MW:</b> 137.1 <b>CAS No:</b> 16219-99-1</p>	
22	<p><b>N-Nitrosodiethanolamine</b> <b>Chemical Name:</b> 2,2'-(Nitrosoimino) bisethanol <b>MF:</b> C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b> 134.13 <b>CAS No:</b> 1116-54-7</p>	
23	<p><b>N-Nitrosomethylethanolamine</b> <b>Chemical Name:</b> 2-(Methylnitrosoamino) ethanol <b>MF:</b> C<sub>3</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 104.11 <b>CAS No:</b> 26921-68-6</p>	
24	<p><b>N-Nitrosomethylethanolamine</b> <b>Chemical Name:</b> 2-(Methylnitrosoamino) ethanol <b>MF:</b> C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW:</b> 116.2 <b>CAS No:</b> 7068-83-9</p>	
25	<p><b>N-Nitroso N-Benzyl Methyl Amine Chemical Name:</b> N-benzyl-N-methylnitrous amide <b>MF:</b> C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 150.18 <b>CAS No:</b> 937-40-6</p>	



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26	<p><b>N-Nitroso pyrrolidine</b> <b>Chemical Name:</b> 1-Nitrosopyrrolidine <b>MF:</b> C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O <b>MW:</b> 100.12 <b>CAS No:</b> 930-55-2</p>	
27	<p><b>N-N-Nitrosopiperidine</b> <b>Chemical Name:</b> 1-Nitrosopiperidine <b>MF:</b> C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 114.15 <b>CAS No:</b> 100-75-4</p>	
28	<p><b>N-Nitroso-2,6-dichloro purine</b> <b>Chemical Name:</b> N-Nitroso -2,6 dichloro purine <b>MF:</b> C<sub>5</sub>HCl<sub>2</sub>N<sub>5</sub>O <b>MW:</b> 218.0 <b>CAS No:</b> NA</p>	
29	<p><b>N-Ethyl-N-Butylnitrosamine</b> <b>Chemical Name:</b> N-Ethyl-N-nitroso-1-butanamine <b>MF:</b> C<sub>6</sub>H<sub>14</sub>N<sub>2</sub>O <b>MW:</b> 130.19 <b>CAS No:</b> 4549-44-4</p>	
30	<p><b>N-Nitroso diphenyl amine</b> <b>Chemical Name:</b> N,N-Diphenyl-N-nitrosoamine <b>MF:</b> C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 198.22 <b>CAS No:</b> 86-30-6</p>	
31	<p><b>N-methyl-N-nitroso-2-Propanamine Chemical Name:</b> N-methyl-N-propan-2- ylnitrous Amide; N-isopropyl-N-methylnitrous Amide; <b>MF:</b> C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 102.14 <b>CAS No:</b> 30533-08-5</p>	
32	<p><b>N-nitroso N methyl urea</b> <b>Chemical Name:</b> 1-Methyl-1-nitrosourea <b>MF:</b> C<sub>2</sub>H<sub>5</sub>N<sub>3</sub>O<sub>2</sub> <b>MW:</b> 103.08 <b>CAS No:</b> 684-93-5</p>	
33	<p><b>N-Nitroso 2-pyrrolidone</b> <b>Chemical Name:</b> 1-Nitroso-2- pyrrolidinone <b>MF:</b> C<sub>4</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 114.10 <b>CAS No:</b> 54634-49-0</p>	

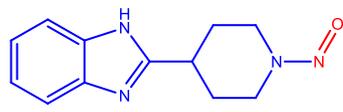
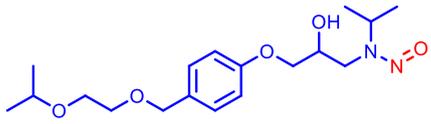
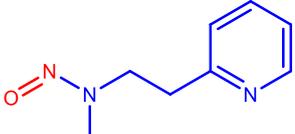
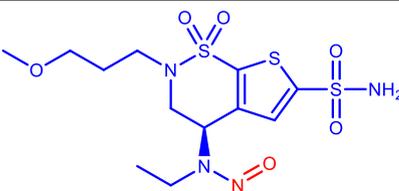
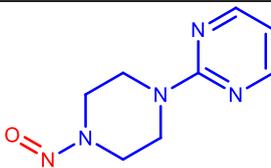
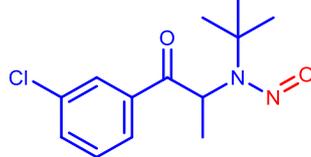
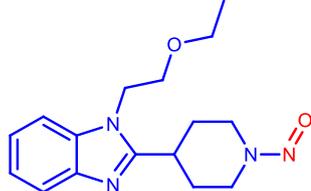
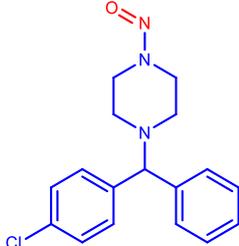


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34	<p><b>2-bromo-5-methyl-3-nitrosopyridine</b> <b>Chemical Name:</b> 6-bromo-3-methyl-1-nitroso-1,2-dihydropyridine <b>MF:</b> C<sub>6</sub>H<sub>7</sub>BrN<sub>2</sub>O <b>MW:</b> 203.4 <b>CAS No:</b> NA</p>		
35	<p><b>N-Nitroso Aceclofenac</b> <b>Chemical Name:</b> 2-(2-(2-((2,6-Dichlorophenyl)(nitroso)amino)phenyl)acetoxy) acetic acid <b>MF:</b> C<sub>16</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>5</sub> <b>MW:</b> 383.2 <b>CAS No:</b> NA</p>	Aceclofenac	
36	<p><b>N-Nitroso Adrenaline</b> <b>Chemical Name:</b> (R)-N-(2-(3,4-Dihydroxyphenyl)-2-hydroxyethyl)-N-methylnitrous amide <b>MF:</b> C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub> <b>MW:</b> 212.2 <b>CAS No.</b> NA</p>	Adrenaline	
37	<p><b>N-Nitroso Atenolol</b> <b>Chemical Name:</b> 2-(4-(2-hydroxy-3-(isopropyl(nitroso)amino)propoxy)phenyl)acetamide <b>MF:</b> C<sub>14</sub>H<sub>21</sub>N<sub>3</sub>O<sub>4</sub> <b>MW:</b> 295.3 <b>CAS No:</b> 134720-04-0</p>	Atenolol	
38	<p><b>N-Nitroso Aripiprazole INT</b> <b>Chemical Name:</b> 2-((4-cyanophenyl)(nitroso)amino)acetic acid <b>M.F:</b> C<sub>9</sub>H<sub>7</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b> 205.17 <b>CAS No:</b> NA</p>	Aripiprazole	
39	<p><b>N Nitroso Atomoxetine</b> <b>Chemical Name:</b> (R)-N-methyl-N-(3-phenyl-3-(o-tolyloxy)propyl)nitrous amide <b>MF:</b> C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 284.35 <b>CAS No:</b> NA</p>	Atomoxetine HCL	

40	<p><b>N-Nitroso Azithioprine</b> <b>Chemical Name:</b> 7-Nitroso-7H-purine-6-thiol <b>MF:</b> C<sub>5</sub>H<sub>3</sub>N<sub>5</sub>OS <b>MW:</b> 181.2 <b>CAS No:</b> NA</p>	Azithioprine	
41	<p><b>N-nitroso Azithromycin impurity I</b> <b>Chemical Name:</b> N-((2S,3R,4S,6R)-2-(((2R,3S,4R,5R,8S,10S,11S,12R,13R,14S)-2-ethyl-3,4,10-trihydroxy-13-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-3,5,6,8,10,12,14-heptamethyl-15-oxo-1-oxa-6-azacyclopentadecan-11-yl)oxy)-3-hydroxy-6-methyltetrahydro-2H-pyran-4-yl)-N-methylnitrosamide <b>MF:</b> C<sub>37</sub>H<sub>69</sub>N<sub>3</sub>O<sub>13</sub> <b>MW:</b> 763.96 <b>CAS No:</b> NA</p>	Azithromycin	
42	<p><b>N-Nitroso-L-proline</b> <b>Chemical Name:</b> N-Nitroso-L-proline <b>MF:</b> C<sub>5</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b> 144.13 <b>CAS No:</b> 7519-36-0</p>	Avanafil	
43	<p><b>N-Nitroso Proline Methyl Ester</b> <b>Chemical Name:</b> Methyl Nitroso-L-prolinate <b>MF:</b> C<sub>6</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b> 158.2 <b>CAS No:</b> 35909-01-4</p>	Avanafil	
44	<p><b>N Nitroso Benazepril</b> <b>Chemical Name:</b> 2-((S)-3-(((S)-1-Ethoxy-1-oxo-4-phenylbutan-2-yl)(nitroso)amino)-2-oxo-2,3,4,5-tetrahydro-1H-benzo[b]azepin-1-yl)acetic acid <b>MF:</b> C<sub>24</sub>H<sub>27</sub>N<sub>3</sub>O<sub>6</sub> <b>MW:</b> 453.49 <b>CAS No:</b> NA</p>	Benazepril	
45	<p><b>N Nitroso Bumetanide</b> <b>Chemical Name:</b> 3-(Butyl(nitroso)amino)-4-phenoxy-5-sulfamoylbenzoic acid <b>MF:</b> C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O<sub>6</sub>S <b>MW:</b> 393.4 <b>CAS No:</b> 2490432-02-3</p>	Bumetanide	

46	<b>N Nitroso Bilastine</b> <b>Chemical Name:</b> 2-(1-nitrosopiperidin-4-yl)-1H-benzo(d)imidazole <b>MF:</b> C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <b>MW:</b> 230.27 <b>CAS No:</b> 2731008-04-9	Bilastine	
47	<b>Bisoprolol Impurity 11</b> <b>Chemical Name:</b> N-(2-hydroxy-3-(4-((2-isopropoxyethoxy) methyl) phenoxy) propyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>18</sub> H <sub>30</sub> N <sub>2</sub> O <sub>5</sub> <b>MW:</b> 354.4 <b>CAS No:</b> NA	Bisoprolol	
48	<b>N-Nitroso Betahistine</b> <b>Chemical Name:</b> N-Methyl-N-nitroso-2-pyridineethanamine <b>MF:</b> C <sub>8</sub> H <sub>11</sub> N <sub>3</sub> O <b>MW:</b> 165.19 <b>CAS No:</b> 32635-81-7	Betahistine	
49	<b>N-Nitroso Brinzolamide</b> <b>Chemical Name:</b> (R)-4-(Ethyl(nitroso)amino)-2-(3-methoxypropyl)-3,4-dihydro-2H-thieno[3,2-e][1,2]thiazine-6-sulfonamide 1,1-dioxide <b>MF:</b> C <sub>12</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> S <sub>3</sub> <b>MW:</b> 412.5 <b>CAS No:</b> NA	Brinzolamide	
50	<b>Buspirone Impurity 1</b> <b>Chemical Name:</b> 2-(4-nitrosopiperazin-1-yl)pyrimidine <b>MF:</b> C <sub>8</sub> H <sub>11</sub> N <sub>5</sub> O <b>MW:</b> 193.2 <b>CAS No:</b> 872826-80-7	Buspirone	
51	<b>N Nitroso Bupropion</b> <b>Chemical Name:</b> N-(tert-butyl)-N-(1-(3-chlorophenyl)-1-oxopropan-2-yl) nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>17</sub> ClN <sub>2</sub> O <sub>2</sub> <b>MW:</b> 268.74 <b>CAS No:</b> NA	Bupropion	
52	<b>N-Nitroso Bilastine</b> <b>Chemical Name:</b> 1-(2-Ethoxyethyl)-2-(1-nitrosopiperidin-4-yl)-1H-benzo[d]imidazole <b>MF:</b> C <sub>16</sub> H <sub>22</sub> N <sub>4</sub> O <sub>2</sub> <b>MW:</b> 302.37 <b>CAS No:</b> NA	Bilastine	
53	<b>N-Nitroso Cetirizine EP Impurity A</b> <b>Chemical Name:</b> N-Nitroso(1,4-chlorobenzoydryl)Piperazine <b>MF:</b> C <sub>17</sub> H <sub>18</sub> ClN <sub>3</sub> O <b>MW:</b> 315.8 <b>CAS No:</b> 2005-04-1	Cetirizine	



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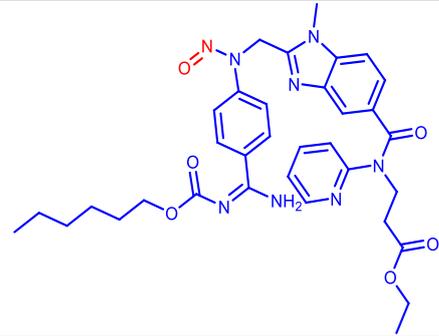
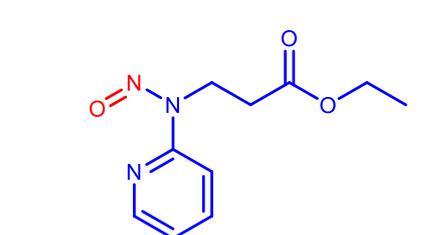
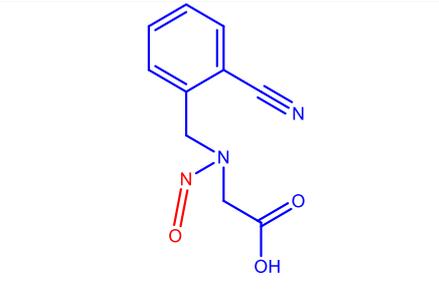
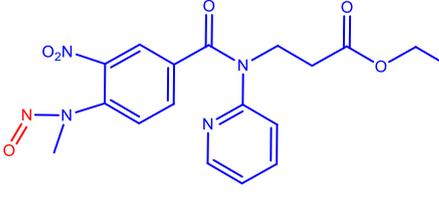
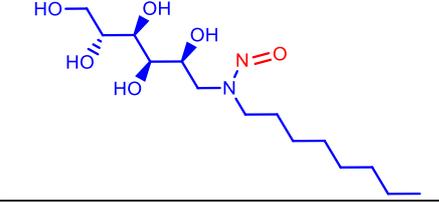
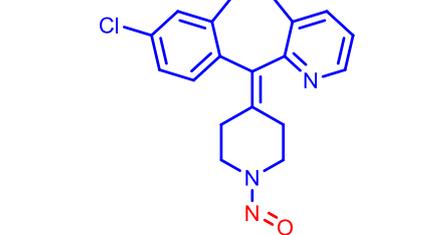
54	<p><b>Clopidogrel Nitroso Impurity</b> <b>Chemical Name:</b> 5-Nitroso-4,5,6,7-tetrahydrothieno[3,2-c]pyridine <b>MF:</b> C<sub>7</sub>H<sub>8</sub>N<sub>2</sub>OS <b>MW:</b> 168.2 <b>CAS No:</b> 2460755-43-3</p>	Clopidogrel	
55	<p><b>N Nitroso Clonidine</b> <b>Chemical Name:</b> N-(2,6-Dichlorophenyl)-N-(4,5-dihydro-1H-imidazol-2-yl)nitrous amide <b>MF:</b> C<sub>9</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>4</sub>O <b>MW:</b> 259.1 <b>CAS No:</b> NA</p>	Clonidine	
56	<p><b>N Nitroso Cinacalcet</b> <b>Chemical Name:</b> (R)-N-(1-(naphthalen-1-yl)ethyl)-N-(3-(3-(trifluoromethyl)phenyl)propyl)nitrous amide <b>MF:</b> C<sub>22</sub>H<sub>21</sub>F<sub>3</sub>N<sub>2</sub>O <b>MW:</b> 386.42 <b>CAS No:</b> NA</p>	Cinacalcet	
57	<p><b>N-Nitroso Ciprofloxacin</b> <b>Chemical Name:</b> 1-Cyclopropyl-6-fluoro-1,4-dihydro-7-(4-nitroso-1-piperazinyl)-4-oxo-3-quinoline carboxylic Acid <b>MF:</b> C<sub>17</sub>H<sub>17</sub>FN<sub>4</sub>O<sub>4</sub> <b>MW:</b> 360.3 <b>CAS No:</b> 864443-44-7</p>	Ciprofloxacin	
58	<p><b>N-Nitroso Clozapine</b> <b>Chemical Name:</b> 8-chloro-11-(4-methylpiperazin-1-yl)-5-nitroso-5H-dibenzo[b,e][1,4]diazepine <b>MF:</b> C<sub>18</sub>H<sub>18</sub>ClN<sub>5</sub>O <b>MW:</b> 355.82 <b>CAS No:</b> 156632-03-0</p>	Clozapine	
59	<p><b>N-Nitroso-4-Hydroxy Carbazole</b> <b>Chemical Name:</b> 9-nitroso-9H-carbazol-4-ol <b>MF:</b> C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 212.2 <b>CAS No:</b> 63779-86-2</p>	Carbazole	
60	<p><b>Nitroso-Epoxy Propoxy Carbazole Carvedilol</b> <b>Chemical Name:</b> 9-Nitroso-4-(oxiran-2-ylmethoxy)-9H-carbazole <b>MF:</b> C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b> 268.3 <b>CAS No:</b> NA</p>	Carvedilol	

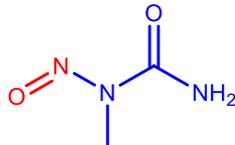
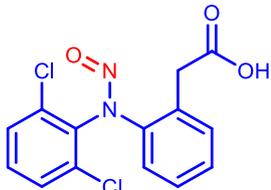
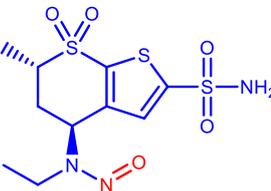
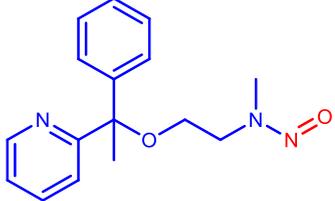
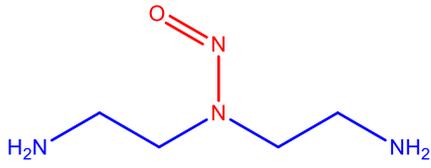
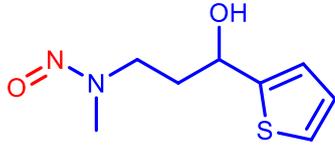
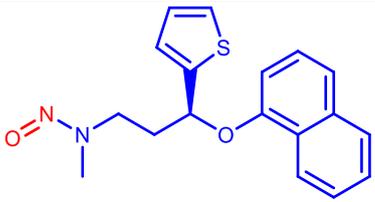


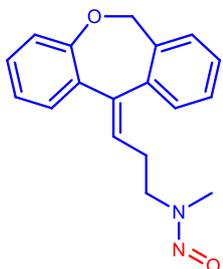
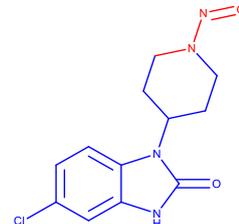
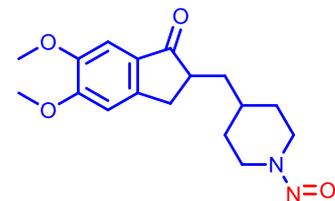
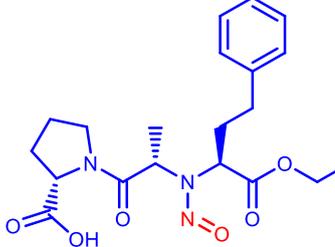
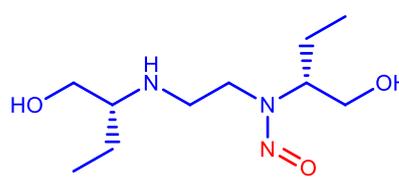
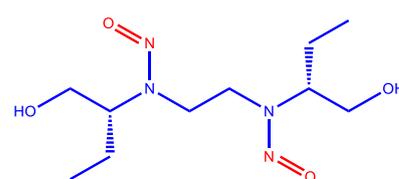
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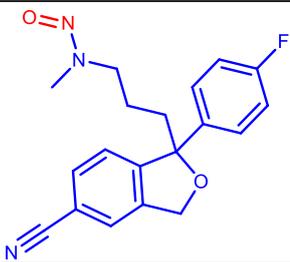
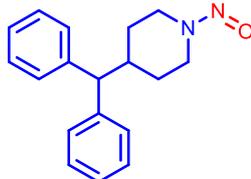
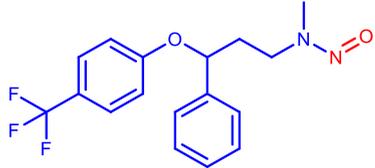
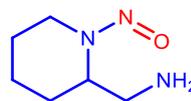
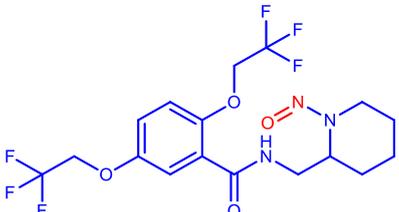
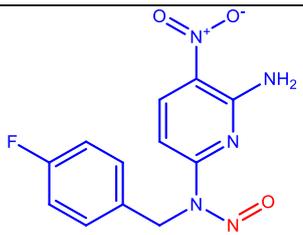
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61	<p><b>N-Nitroso Clomipramine</b> <b>Chemical Name:</b> N-(3-(3-chloro-10,11-dihydro-5H-dibenzo[b,f]azepin-5-yl)propyl)-N-methylnitrous amide <b>MF:</b> C<sub>18</sub>H<sub>20</sub>ClN<sub>3</sub>O <b>MW:</b> 364.3 <b>CAS No.</b> NA</p>	Clomipramine	
62	<p><b>N-Nitroso desmethyl Cyclobenzaprine</b> <b>Chemical Name:</b> N-(3-(10,11-Dihydro-5H-dibenzo[a,d][7]annulen-5-ylidene)propyl)nitrous amide <b>M.F:</b> C<sub>18</sub>H<sub>18</sub>N<sub>2</sub>O <b>MW:</b> 278.4 <b>CAS No:</b> NA</p>	Cyclobenzaprine	
63	<p><b>N-Nitroso Piperazine</b> <b>Chemical Name:</b> 1-Nitrosopiperazine <b>M.F:</b> C<sub>4</sub>H<sub>10</sub>N<sub>3</sub>O <b>MW:</b> 115.1 <b>CAS No:</b> NA</p>	Cyclobenzaprine	
64	<p><b>N-Nitroso Dabigatran Ethyl Ester</b> <b>Chemical Name:</b> ethyl 3-(2-(((4-carbamimidoylphenyl)(nitroso)amino) methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate <b>MF:</b> C<sub>27</sub>H<sub>28</sub>N<sub>8</sub>O<sub>4</sub> <b>MW:</b> 528.56 <b>CAS No:</b> NA</p>	Dabigatran	
65	<p><b>N Nitroso Dabigatran Impurity 1</b> <b>Chemical Name:</b> Ethyl 3-(2-(((4-(N-(hexyloxy)carbonyl)carbamimidoyl)phenyl)(nitroso)amino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate 1H-benzo[d]imidazole-5-carboxamido)propanoate <b>MF:</b> C<sub>34</sub>H<sub>40</sub>N<sub>8</sub>O<sub>6</sub> <b>MW:</b> 656.7 <b>CAS No:</b> NA</p>	Dabigatran	

66	<p><b>N Nitroso Dabigartan Etexilate</b> <b>Chemical Name:</b> (E)-ethyl 3-(2-(((4-(N'-(hexyloxy)carbonyl)carbamimidoyl)phenyl)(nitrosoamino)methyl)-1-methyl-N-(pyridin-2-yl)-1H-benzo[d]imidazole-5-carboxamido)propanoate <b>MF:</b> C<sub>34</sub>H<sub>40</sub>N<sub>8</sub>O<sub>6</sub> <b>MW:</b> 656.7 <b>CAS No:</b> NA</p>	Dabigatran	
67	<p><b>Dabigatran Nitroso Impurity 3</b> <b>Chemical Name:</b> Ethyl 3-(nitroso(pyridin-2-yl)amino)propanoate <b>MF:</b> C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b> 223.2 <b>CAS No:</b> NA</p>	Dabigatran	
68	<p><b>N-Nitroso Dabigatran INT</b> <b>Chemical Name:</b> 2-((2-cyanobenzyl)(nitrosoamino)acetic acid <b>M.F:</b>C<sub>10</sub>H<sub>9</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b> 219.06 <b>CAS No:</b> NA</p>	Dabigatran	
69	<p><b>N-Nitroso Dabigatran IMP-8</b> <b>Chemical Name:</b> ethyl 3-(4-(methyl(nitrosoamino)-3-nitro-N-(pyridin-2-yl)benzamido)propanoate <b>M.F:</b>C<sub>18</sub>H<sub>19</sub>N<sub>5</sub>O<sub>6</sub> <b>MW:</b> 401.13 <b>CAS No:</b> NA</p>	Dabigatran	
70	<p><b>N-Nitroso 1-deoxy-1-(octylamine)-D-glucinol</b> <b>Chemical Name:</b> N-octyl-N-((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>MF:</b> C<sub>14</sub>H<sub>30</sub>N<sub>2</sub>O<sub>6</sub> <b>MW:</b>322.40 <b>CAS No.</b> NA</p>	D-glucinol	
71	<p><b>N-Nitroso Desloratadine</b> <b>Chemical Name:</b> 8-Chloro-6,11-dihydro-11-(1-nitroso-4-piperidinylidene)-5H-benzo[5,6]cyclohepta[1,2-b]pyridine <b>MF:</b> C<sub>19</sub>H<sub>18</sub>ClN<sub>3</sub>O <b>MW:</b> 339.8 <b>CAS No:</b> 1246819-22-6</p>	Desloratadine	

72	<b>N-nitroso N methyl Urea</b> <b>Chemical Name:</b> 1-Methyl-1-nitrosourea <b>MF:</b> C <sub>2</sub> H <sub>5</sub> N <sub>3</sub> O <sub>2</sub> <b>MW:</b> 103.08 <b>CAS No:</b> 684-93-5	Diazomethane	
73	<b>N Nitroso Diclofenac</b> <b>Chemical Name:</b> 2-[(2,6-Dichlorophenyl)nitrosoamino] Benzene acetic Acid <b>MF:</b> C <sub>14</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 325.1 <b>CAS No:</b> 66505-80-4	Diclofenac	
74	<b>N-Nitroso-Dorzolamide</b> <b>Chemical Name:</b> ((4S,6S)-4-(ethyl(nitroso)amino)-6-methyl-5,6-dihydro-4H-thieno[2,3-b]thiopyran-2-sulfonamide 7,7-dioxide) <b>MF:</b> C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O <sub>5</sub> S <sub>3</sub> <b>MW:</b> 353.4 <b>CAS No:</b> NA	Dorzolamide	
75	<b>N Nitroso Doxylamine</b> <b>Chemical Name:</b> N-methyl-N-(2-(1-phenyl-1-(pyridin-2-yl)ethoxy)ethyl)nitrous amide <b>MF:</b> C <sub>15</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub> <b>MW:</b> 285.34 <b>CAS No:</b> NA	Doxylamine Succinate	
76	<b>N-Nitroso Diethylene Triamine</b> <b>Chemical Name:</b> N,N-bis(2-aminoethyl)nitrous amide <b>M.F:</b> C <sub>4</sub> H <sub>12</sub> N <sub>4</sub> O <b>MW:</b> 132.2 <b>CAS No:</b> 741659-46-1	Diethylene Triamine	
77	<b>Duloxetine Impurity 16</b> <b>Chemical Name:</b> N-(3-hydroxy-3-(thiophen-2-yl)propyl)-N-methylnitrous amide <b>MF:</b> C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> S <b>MW:</b> 200.3 <b>CAS No:</b> 2418708-78-6	Duloxetine	
78	<b>N-Nitroso-Duloxetine</b> <b>Chemical Name:</b> N-methyl-N-(3-(naphthalen-1-yl oxy)-3-(thiophen-2-yl) prolylnitrous amide <b>MF:</b> C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub> S <b>MW:</b> 326.4 <b>CAS No:</b> 2680527-91-5	Duloxetine Intermediate	

79	<p><b>N-Nitroso Doxepine</b>  <b>Chemical Name:</b> (E)-N-(3-(Dibenzo[b,e]oxepin-11(6H)-ylidene)propyl)-N-methylnitrous amide  <b>M.F:</b>C18H18N2O2 <b>MW:</b> 294.12  <b>CAS No:</b> NA</p>	Doxepine	
80	<p><b>N-Nitroso Domperidone Impurity A</b>  <b>Chemical Name:</b> 5-chloro-1-(1-nitroso piperidine-4-yl)-1,3-dihydro-2H-benzo[d]imidazole-2-one  <b>M.F:</b> C17H13ClN4O2 <b>MW:</b> 280.71  <b>CAS No:</b> NA</p>	Domperidone	
81	<p><b>N-Nitroso-Donepezil EP Impurity A</b>  <b>Chemical Name:</b> 5,6-dimethoxy-2-((1-nitrosopiperidin-4-yl)methyl)-2,3-dihydro-1H-inden-1-one  <b>MF:</b> C17H22N2O4  <b>MW:</b> 318.4  <b>CAS No:</b> NA</p>	Donepezil	
82	<p><b>N-Nitroso Enalapril</b>  <b>Chemical Name:</b> (S)-1-((S)-2-(((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)(nitroso)amino)propanoyl)pyrrolidine-2-carboxylic acid  <b>MF:</b> C20H27N3O6  <b>MW:</b> 405.44 <b>CAS No:</b> NA</p>	Enalapril	
83	<p><b>N-Nitroso Ethambutol (Monomer)</b>  <b>Chemical Name</b> N-((R)-1-Hydroxybutan-2-yl)-N-(2-(((R)-1-hydroxybutan-2-yl)amino)ethyl)nitrous amid  <b>MF:</b> C<sub>10</sub>H<sub>23</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b>233.3  <b>CAS No.</b>78213-39-5</p>	Ethambutol	
84	<p><b>Chemical Name</b> N,N'-(Ethane-1,2-diyl)bis(N-((R)-1-hydroxybutan-2-yl)nitrous amide)  <b>MF:</b> C<sub>10</sub>H<sub>22</sub>N<sub>4</sub>O<sub>4</sub> <b>MW:</b>262.3  <b>CAS No.</b> 52322-22-2</p>	Ethambutol	

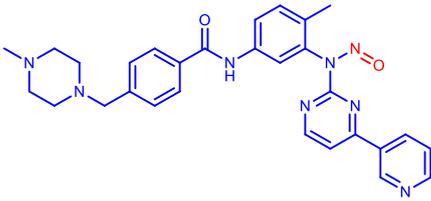
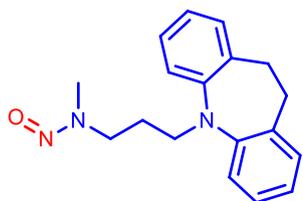
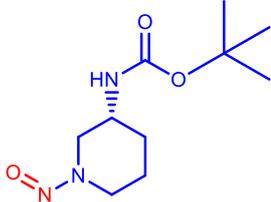
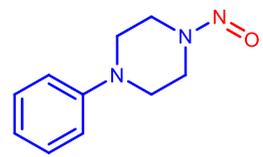
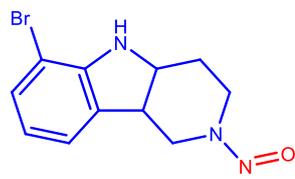
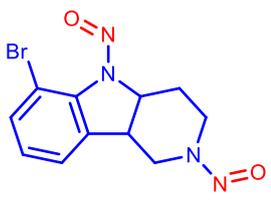
85	<b>Escitalopram Nitroso Impurity</b> <b>Chemical Name:</b> N-(3-(5-Cyano-1-(4-fluorophenyl)-1,3-dihydroisobenzofuran-1-yl)propyl)-N-methylnitrous Amide <b>MF:</b> C <sub>19</sub> H <sub>18</sub> FN <sub>3</sub> O <sub>2</sub> <b>MW</b> 339.4 <b>CAS No:</b> NA	Escitalopram	
86	<b>N-Nitroso Azacyclonol</b> <b>Chemical Name:</b> 4-(diphenylmethyl)-1-nitroso piperidine <b>MF:</b> C <sub>18</sub> H <sub>20</sub> N <sub>2</sub> O <b>MW</b> 280.36 <b>CAS No:</b> NA	Fexofenadine	
87	<b>N-Nitroso Fluoxetine</b> <b>Chemical Name:</b> N-methyl-N-(3-phenyl-3-(4-(trifluoromethyl)phenoxy)propyl)nitrous amide <b>MF:</b> C <sub>17</sub> H <sub>17</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub> <b>MW</b> 338.3 <b>CAS No:</b> 150494-06-7	Fluoxetine	
88	<b>(1-nitrosopiperidin-2-yl)methanamine</b> <b>Chemical Name:</b> (1-nitrosopiperidin-2-yl)methanamine <b>MF:</b> C <sub>6</sub> H <sub>13</sub> N <sub>3</sub> O <b>MW</b> 143.19 <b>CAS No:</b> NA	Flecainide KSM	
89	<b>(1-nitrosopiperidin-2-yl)methanol</b> <b>Chemical Name:</b> (1-nitrosopiperidin-2-yl)methanol <b>MF:</b> C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub> <b>MW</b> 144.15 <b>CAS No:</b> NA	Flecainide KSM	
90	<b>N-Nitroso Flecainide</b> <b>Chemical Name:</b> N-((1-nitrosopiperidin-2-yl)methyl)-2,5-bis(2,2,2-trifluoroethoxy)benzamide <b>MF:</b> C <sub>17</sub> H <sub>19</sub> F <sub>6</sub> N <sub>3</sub> O <sub>4</sub> <b>MW:</b> 443.34 <b>CAS No.</b> NA	Flecainide	
91	<b>N-Nitroso Flupirtine INT</b> <b>Chemical Name:</b> N-(6-amino-5-nitropyridin-2-yl)-N-(4-fluorobenzyl)nitrous amide <b>M.F:</b> C <sub>12</sub> H <sub>10</sub> FN <sub>5</sub> O <sub>3</sub> <b>MW:</b> 291.24 <b>CAS No:</b> NA	Flupirtine	

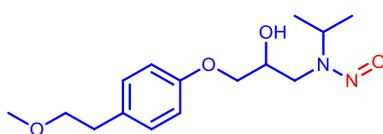
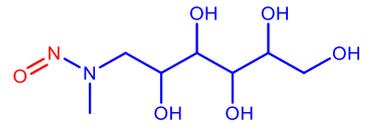
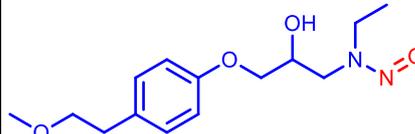
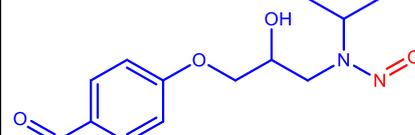
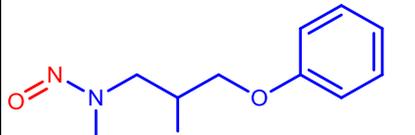
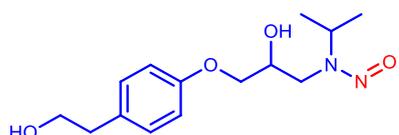
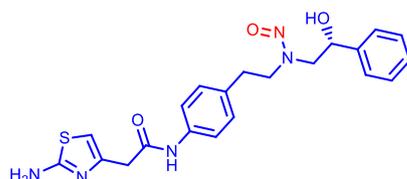


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92	<p><b>N-Nitroso Flupirtine INT</b> <b>Chemical Name:</b> N-(6-amino-5-nitropyridin-2-yl)-N-(4-fluorobenzyl)nitrous amide <b>M.F:</b>C12H10FN5O3 <b>MW:</b> 291.24 <b>CAS No:</b> NA</p>	Flupirtine	
93	<p><b>N Nitroso Gabapentine</b> <b>Chemical Name:</b> 2-Nitroso-2-azaspiro[4,5]decan-3-one <b>MF:</b> C9H14N2O2 <b>MW:</b> 182.11 <b>CAS No:</b> NA</p>	Gabapentine	
94	<p><b>N-Nitroso Guanine</b> <b>Chemical Name:</b> 2-amino-9-nitroso-1H-purin-6(9H)-one <b>MF:</b> C5H4 N6O2 <b>MW:</b> 180.1 <b>CAS No:</b> NA</p>	Guanine	
95	<p><b>N-Nitroso Hydrochlorothiazide</b> <b>Chemical Name:</b> 6-Chloro-4-nitroso-3,4-dihydro-2H-benzo[e][1,2,4]thiadiazine-7-sulfonamide 1,1-dioxide <b>MF:</b> C7H7ClN4O2S2 <b>MW:</b> 326.74 <b>CAS No:</b> 63779-86-2</p>	Hydro chlorothiazide	
96	<p><b>N-Nitroso-2,2'-iminodiacetohydrazide</b> <b>Chemical Name:</b> N,N-bis(hydrazinecarbonylmethyl)nitrous amide <b>MF:</b> C4H10N6O3 <b>MW:</b> 190.16 <b>CAS No:</b> 5438-82-4</p>	Hydroxo cobalamin	
97	<p><b>N-Nitroso 2-methyl indoline</b> <b>Chemical Name:</b> 2,3-Dihydro-2-methyl-1- nitroso-1H-indole <b>MF:</b> C9H10N2O <b>MW:</b> 162.2 <b>CAS No:</b> 85440-79-5</p>	Indapamide	
98	<p><b>N-Nitroso Icatibant Int.</b> <b>Chemical Name:</b> (R)-2-nitroso-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid <b>MF:</b> C10H10N2O3 <b>MW:</b> 206.07 <b>CAS No:</b> NA</p>	Icatibant Int.	

99	<b>N-Nitroso Imatinib</b> <b>Chemical Name:</b> N-(4-methyl-3- (nitroso(4-(pyridin-3-yl)pyrimidine-2-yl)amino)phenyl)-4-((4- methylpiperzin-1- yl)methyl)benzamide <b>MF:</b> C <sub>29</sub> H <sub>30</sub> N <sub>8</sub> O <sub>2</sub> <b>MW:</b> 522.60 <b>CAS No.</b> NA		
100	<b>N-Nitroso Impriramine</b> <b>Chemical Name:</b> 5H-Dibenz[b,f]azepine-5-propanamine, 10,11-dihydro-N-methyl-N-nitroso <b>MF:</b> C <sub>18</sub> H <sub>21</sub> N <sub>3</sub> O <b>MW:</b> 295.38 <b>CAS No.</b> 57164-17-7	Impriramine	
102	<b>N-Nitroso Linagliptin BOC Intermediate</b> <b>Chemical Name :</b> Tert-butyl((3R)-1- nitroso-piperidin-3-yl)carbamate <b>MF:</b> C <sub>10</sub> H <sub>18</sub> N <sub>3</sub> O <b>MW:</b> 228.14 <b>CAS No.:</b> NA	Linagliptin	
103	<b>N Nitroso Levocetrizine Impurity A</b> <b>Chemical Name:</b> 1-((4-chlorophenyl)(phenyl)methyl)-4-nitrosopiperazine <b>MF:</b> C <sub>17</sub> H <sub>18</sub> ClN <sub>3</sub> O <b>MW:</b> 315.80 <b>CAS No.</b> NA	Levocetrizine	
104	<b>1-Nitroso-4-phenylpiperazine</b> <b>Chemical Name:</b> 1-Nitroso-4-phenylpiperazine <b>MF:</b> C <sub>10</sub> H <sub>13</sub> N <sub>3</sub> O <b>MW:</b> 191.23 <b>CAS No.</b> 14340-33-1	Levodropropizine	
105	<b>6-bromo-2-nitroso-2,3,4,4a,5,9b-hexahydro- 1H-pyrido[4,3-b]indole</b> <b>Chemical Name:</b> 6-bromo-2-nitroso-2,3,4,4a,5,9b-hexahydro-1H-pyrido[4,3-b]indole <b>MF:</b> C <sub>11</sub> H <sub>12</sub> BrN <sub>3</sub> O <b>MW:</b> 282.14 <b>CAS No.</b> NA	Lumateperon Intermediate	
106	<b>6-Bromo-2,5-dinitroso-2,3,4, 4a,5,9b-hexahydro-1H-pyrido[4,3-b]Indole</b> <b>Chemical Name:</b> 6-Bromo-2,5-dinitroso-2,3,4, 4a,5,9b-hexahydro-1H-pyrido[4,3-b]Indole <b>MF:</b> C <sub>11</sub> H <sub>12</sub> BrN <sub>4</sub> O <sub>2</sub> <b>MW</b> 311.13 <b>CAS No:</b> NA	Lumateperon Intermediate	

107	<b>N Nitroso Metoprolol</b> <b>Chemical Name:</b> N-(2-Hydroxy-3-(4-(2-methoxyethyl)phenoxy)propyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 296.36 <b>CAS No:</b> 138768-62-4	Metoprolol	
108	<b>N-Nitroso-Meglumine</b> <b>Chemical Name:</b> N-methyl-N-(2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>MF:</b> C <sub>7</sub> H <sub>16</sub> N <sub>2</sub> O <sub>6</sub> <b>MW:</b> 224.2 <b>CAS No:</b> 62137-31-9	Meglumine	
109	<b>N-Nitroso Metoprolol EP Impurity A</b> <b>Chemical Name:</b> N-ethyl-N-(2-hydroxy-3-(4-(2-methoxyethyl)phenoxy)propyl) nitrous amide <b>MF:</b> C <sub>14</sub> H <sub>22</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 282.3 <b>CAS No.</b> NA	Metoprolol	
110	<b>N-Nitroso Metoprolol EP Impurity C</b> <b>Chemical Name:</b> N-(3-(4-formylphenoxy)-2-hydroxypropyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 266.29 <b>CAS NO:</b> NA	Metoprolol	
112	<b>N-Nitroso Metoprolol EP Impurity F</b> <b>Chemical Name:</b> N-(2-hydroxy-3-phenoxypropyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>12</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 238.13 <b>CAS No:</b> NA	Metoprolol	
113	<b>N-Nitroso Metoprolol EP Impurity H</b> <b>Chemical Name:</b> N-(2-hydroxy-3-(4-(2-hydroxyethyl)phenoxy)propyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>14</sub> H <sub>22</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 282.34 <b>CAS No.</b> NA	Metoprolol	
114	<b>N Nitroso Mirabegron</b> <b>Chemical Name:</b> (R)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(nitroso)amino)ethyl)phenyl)acetamide <b>MF:</b> C <sub>21</sub> H <sub>23</sub> N <sub>5</sub> O <sub>3</sub> S <b>MW:</b> 425.5 <b>CAS No.</b> NA	Mirabegron	



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115	<p><b>N-Nitroso Azithioprine</b> <b>Chemical Name:</b> 7-Nitroso-7H-purine-6-thiol <b>MF:</b>C<sub>5</sub>H<sub>3</sub>N<sub>5</sub>OS <b>MW</b> 181.2 <b>CAS No:</b> NA</p>	Mercapto- purine	
116	<p><b>N-Nitroso Meglumine</b> <b>Chemical Name:</b> N-Methyl-N-((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>M.F:</b> C<sub>7</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub> <b>MW:</b> 224.2 <b>CAS No:</b> NA</p>	Meglumine	
117	<p><b>N Nitroso Mefenamic Acid</b> <b>Chemical Name:</b> N-Nitroso-N-(2,3-dimethylphenyl)-2-aminobenzoic acid <b>MF:</b> C<sub>15</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub> <b>MW</b> 270.3 <b>CAS No:</b> 2114-63-8</p>	Mefenamic Acid	
118	<p><b>N-Nitroso-4-piperidone</b> <b>Chemical Name:</b> 1-Nitrosopiperidin-4-one <b>MF:</b>C<sub>5</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub> <b>MW</b> 128.13 <b>CAS No:</b> 55556-91-7</p>		
119	<p><b>N Nitroso Mirabegron Impurity F</b> <b>Chemical Name</b> N-(2-hydroxy-2-phenylethyl)-N-(4-nitrophenethyl)nitrous amide <b>MF:</b> C<sub>16</sub>H<sub>17</sub>N<sub>3</sub>O<sub>4</sub> <b>MW:</b> 315.12 <b>CAS No.</b> NA</p>	Mirabegron Impurity F	
120	<p><b>N Nitroso Moxifloxacin</b> <b>Chemical Name:</b> 1-cyclopropyl-6-fluoro-8-methoxy-7-((4as),7as)-1-nitrosohexahydro-H-pyrrol(3,4-b)pyridine <b>MF:</b> C<sub>21</sub>H<sub>23</sub>FN<sub>4</sub>O<sub>5</sub> <b>MW:</b> 430.44 <b>CAS No:</b> NA</p>	Moxifloxacin	
121	<p><b>N-Nitroso Moxifloxacin (R,R) nonane (Mono Nitroso)</b> <b>Chemical Name</b> 6-nitrosooctahydro-1H-Pyrrol(3,4-b)Pyridine <b>MF:</b> C<sub>7</sub>H<sub>13</sub>N<sub>3</sub>O <b>MW:</b> 155.11 <b>CAS No.</b> NA</p>	Moxifloxacin	



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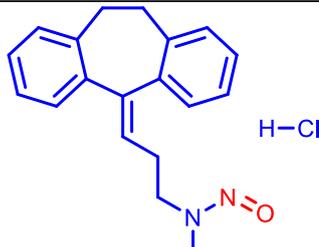
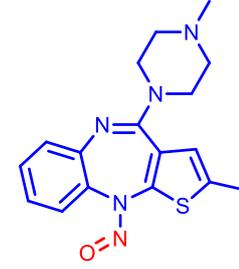
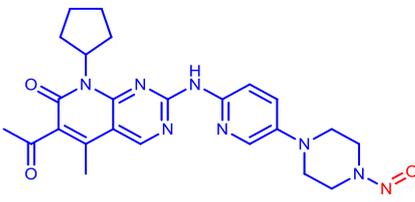
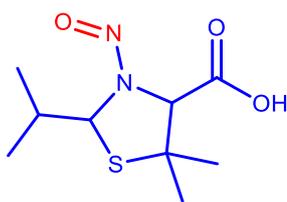
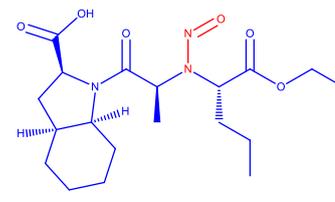
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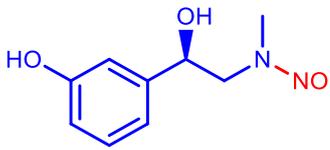
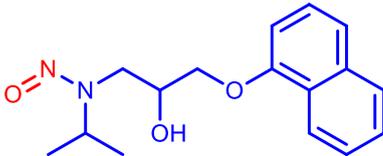
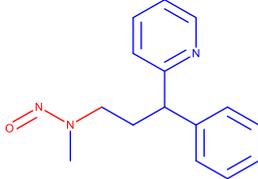
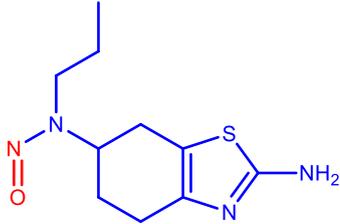
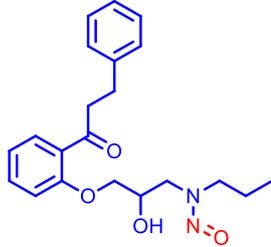
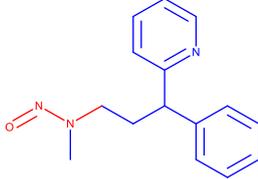
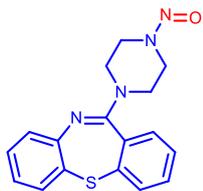
122	<p><b>N-Nitroso Moxifloxacin (R,R) nonae (DiNitroso)</b> <b>Chemical Name:</b> 1,6-dinitrosooctahydro-1H-pyrrolo[3,4-b]pyridine <b>MF:</b> C<sub>7</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub> <b>MW:</b>184.20 <b>CAS No.</b> NA</p>	Moxifloxacin	
123	<p><b>N Nitroso Desmethyl Mefipristone</b> <b>Chemical name:</b> N-(4-((8S,11R,13S,14S,17S)-17-hydroxy-13-methyl-3-oxo-17-(prop-1-yn-1-yl)-2,3,6,7,8,11,12,13,14,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthren-11-yl)phenyl)-N-methylnitrous amide <b>MF:</b> C<sub>28</sub>H<sub>33</sub>NO<sub>2</sub> <b>MW:</b> 415.5 <b>CAS No.</b> NA</p>	Mifepriston	
124	<p><b>N Nitroso Miglustat Impurity 1</b> <b>Chemical Name:</b> N-octyl-N-((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>MF:</b> C<sub>14</sub>H<sub>30</sub>N<sub>2</sub>O<sub>6</sub> <b>MW:</b> 322.4 <b>CAS No.</b> NA</p>	Miglustat	
125	<p><b>N Nitroso Miglustat Impurity 1</b> <b>Chemical Name:</b> N-octyl-N-((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>MF:</b> C<sub>14</sub>H<sub>30</sub>N<sub>2</sub>O<sub>6</sub> <b>MW:</b> 322.4 <b>CAS No.</b> NA</p>	Miglustat	
126	<p><b>N-nitroso-3-pyrrolidinol</b> <b>Chemical Name</b> 1-nitrosopyrrolidin-3-ol <b>MF:</b> C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 116.06 <b>CAS No. :</b> 56222-35-6</p>		
127	<p><b>N Nitroso Nadolol</b> <b>Chemical Name:</b> N-(Tert-butyl)-N-(3-(((6R,7S)-6,7-dihydroxy-5,6,7,8-tetrahydronaphthalen-1-yl)oxy)-2-hydroxypropyl)nitrous amide <b>MF:</b> C<sub>17</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub> <b>MW:</b> 338.40 <b>CAS No.</b> NA</p>	Nadolol	
128	<p><b>N Nitroso Nebivolol</b> <b>Chemical Name:</b> N,N-bis(2-(6-fluorochroman-2-yl)-2-hydroxyethyl)nitrous amide <b>MF:</b> C<sub>22</sub>H<sub>24</sub>F<sub>2</sub>N<sub>2</sub>O<sub>5</sub> <b>MW:</b> 434.4 <b>CAS No:</b> 1391051-68-5</p>	Nebivolol	

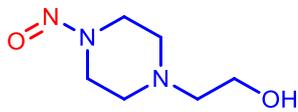
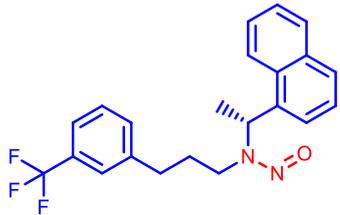
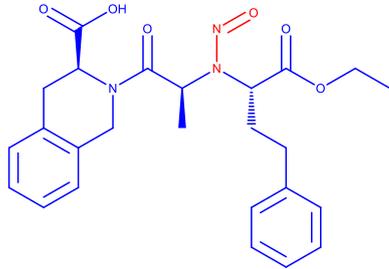
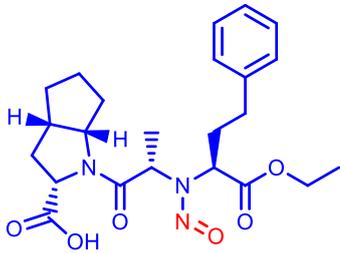
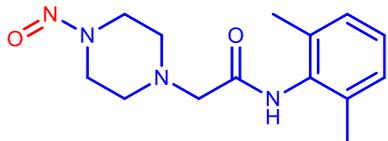
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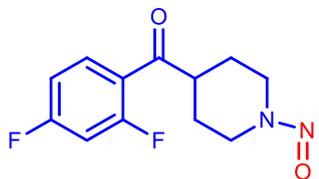
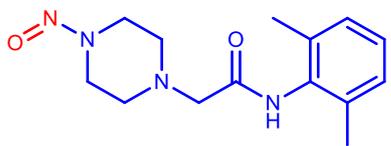
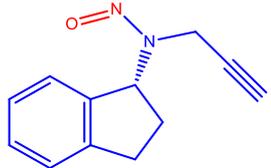
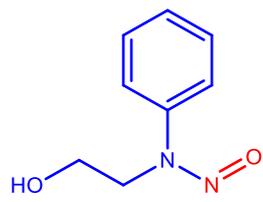
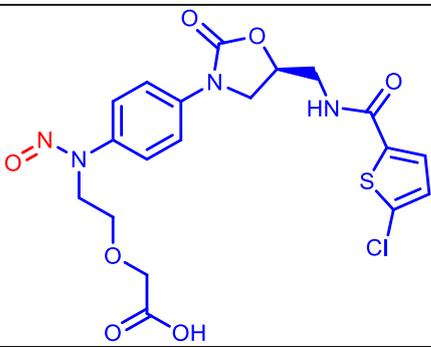
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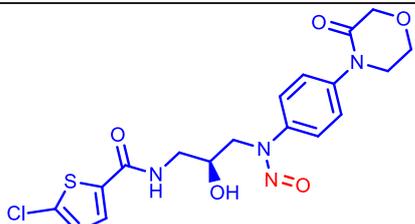
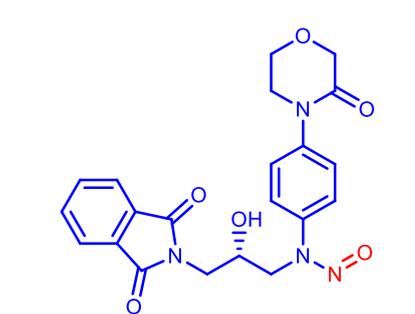
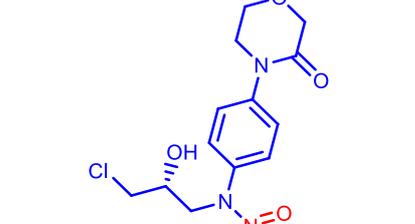
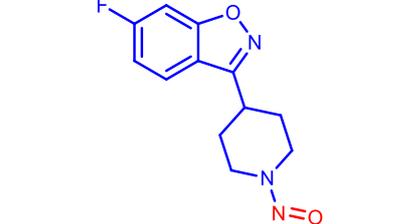
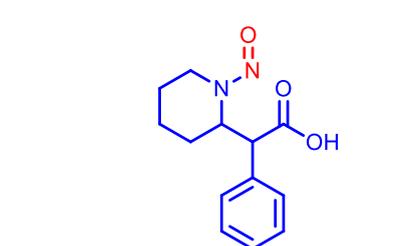
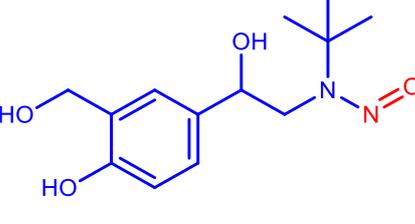
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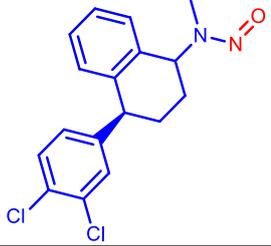
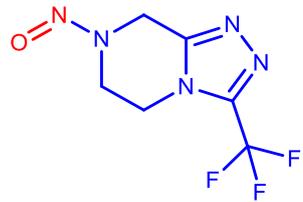
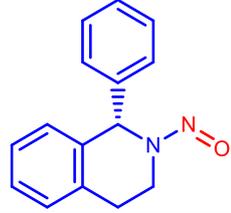
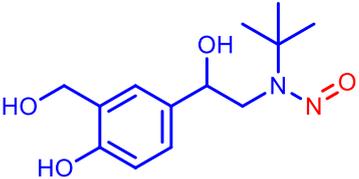
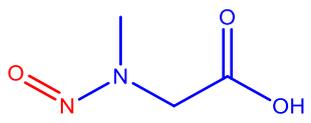
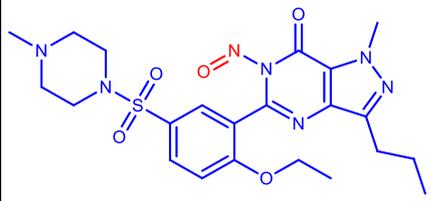
129	<p><b>N Nitroso Nortriptyline Hydrochloride</b>  <b>Chemical Name:</b>            N-(3-(10,11-dihydro-5H-dibenzo[a,d][7]annulen-5-ylidene)propyl)-N-methylnitrous amide hydrochloride  <b>MF:</b> C<sub>20</sub>H<sub>23</sub>ClN<sub>2</sub>O <b>MW</b> 342.86  <b>CAS No:</b> 55855-42-0</p>	Nortriptyline Hydrochloride	
130	<p><b>N Nitroso Olanzapine</b>  <b>Chemical Name:</b>            2-methyl-4-(4-methylpiperazin-1-yl)-10-nitroso-10H-benzo[b]thieno[2,3-e][1,4]diazepine  <b>MF:</b> C<sub>17</sub>H<sub>19</sub>N<sub>5</sub>OS <b>MW</b> 402.4  <b>CAS No:</b> NA</p>	Olanzapine	
131	<p><b>N Nitroso Oxcarbазepine</b>  <b>Chemical Name:</b>            5-Nitroso-10,11-dihydro-5H-dibenzo[b,f]azepine  <b>MF:</b> C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW</b> 224.3  <b>CAS No:</b> 7458-08-4</p>	Oxcarbазepine	
132	<p><b>N-Nitroso Palbociclib</b>  <b>Chemical Name:</b> 6-acetyl-8-cyclopentyl-5-methyl-2-((5-(4-nitrosopiperazin-1-yl)pyridin-2-yl)amino)pyrido[2,3-d]pyrimidin-7(8H)-one  <b>MF:</b> C<sub>24</sub>H<sub>28</sub>N<sub>8</sub>O<sub>3</sub> <b>MW:</b>476.54  <b>CAS No.</b> NA</p>	Palbociclib	
133	<p><b>N-Nitroso-Penicillamine</b>  <b>KSM Chemical Name:</b>            5,5-dimethyl-3-nitroso-2-(propan-2-yl)-1,3-thiazolidine-4-carboxylic acid  <b>MF:</b> C<sub>9</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>S <b>MW:</b> 232.30  <b>CAS No:</b> NA</p>	Penicillamine KSM	
134	<p><b>N-Nitroso Perindopril</b>  <b>Chemical Name:</b>            2S,3aS,7aS)-1-(N-((S)-1-Ethoxy-1-oxopentan-2-yl)-N-nitroso-L-alanyl)octahydro-1H-indole-2-carboxylic acid  <b>M.F:</b> C<sub>19</sub>H<sub>31</sub>N<sub>3</sub>O<sub>6</sub>  <b>MW:</b>397.5 <b>CAS No:</b> NA</p>	Perindopril	

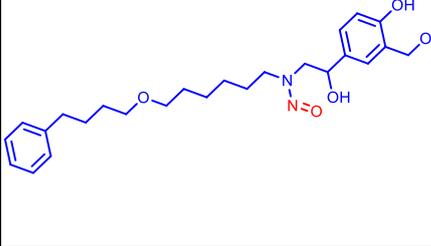
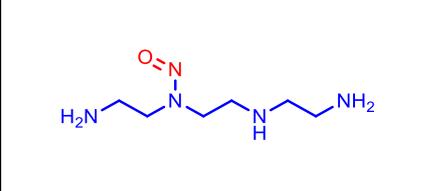
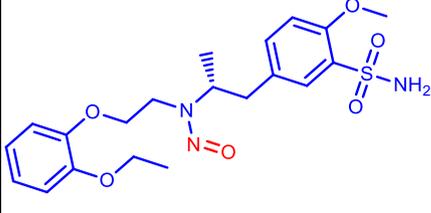
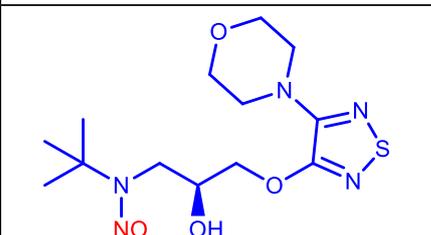
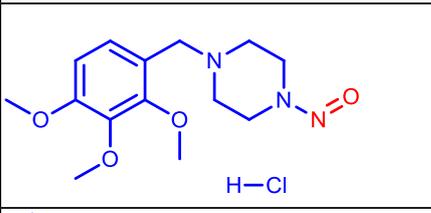
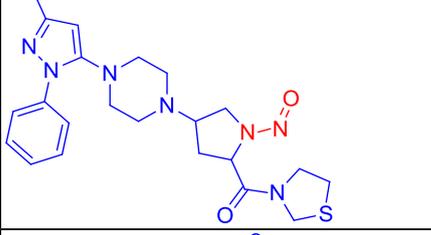
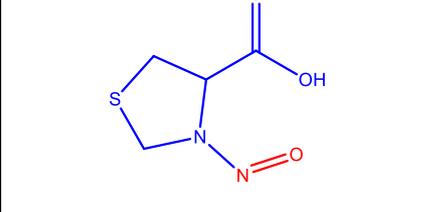
135	<b>N-Nitroso Phenylephrine</b> <b>Chemical Name:</b> N(2-hydroxy-2(3-hydroxyphenyl)-N-methyl nitrous amide <b>MF:</b> C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 196.21 <b>CAS No:</b> 78658-64-7	Phenylephrine	
136	<b>N-Nitroso Propranolol</b> <b>Chemical Name:</b> N-(2-hydroxy-3-(naphthalen-1-yloxy)propyl)-N-isopropyl nitrous amide <b>MF:</b> C <sub>16</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 288.3 <b>CAS No:</b> 84418-35-9	Propranolol	
137	<b>N-Nitroso Pheniramine</b> <b>Chemical Name:</b> N-methyl-N(3-phenyl-3-(pyridin-2-yl)propyl)nitrous amide <b>M.F:</b> C <sub>15</sub> H <sub>17</sub> N <sub>3</sub> O <sub>4</sub> S <b>MW:</b> 255.31 <b>CAS No:</b> NA	Pheniramine	
138	<b>N Nitroso Pramipexole</b> <b>Chemical Name:</b> N-(2-amino-4,5,6,7-tetrahydrobenzo[d]thiazol- 6-yl)-N-propyl nitrous amide <b>MF:</b> C <sub>10</sub> H <sub>16</sub> N <sub>4</sub> OS <b>MW:</b> 240.33 <b>CAS No:</b> NA	Pramipexole	
139	<b>N-Nitroso Propafenone</b> <b>Chemical Name:</b> N-(2-hydroxy-3-(2-(3-phenylpropanoyl) phenoxy)propyl)-N-propyl nitrous amide <b>MF:</b> C <sub>21</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 370.4 <b>CAS No:</b> NA	Propafenone	
140	<b>N-Nitroso Pheniramine</b> <b>Chemical Name:</b> N-methyl-N(3-phenyl-3-(pyridin-2-yl)propyl)nitrous amide <b>M.F:</b> C <sub>15</sub> H <sub>17</sub> N <sub>3</sub> O <sub>4</sub> S <b>MW:</b> 255.31 <b>CAS No:</b> NA	Pheniramine	
141	<b>N-Nitroso Quetapine Impurity B</b> <b>Chemical Name:</b> 11-(4-nitrosopiperazin-1-yl)dibenzo[b,f][1,4]thiazepine <b>MF:</b> C <sub>17</sub> H <sub>16</sub> N <sub>4</sub> OS <b>MW:</b> 324.40 <b>CAS No:</b> NA	Quetiapine Intermediate	

142	<p><b>Nitroso 1(2-hydroxy ethyl)piperazine</b> <b>Chemical Name:</b> 2-(4-nitroso-piperazin-1-yl)-ethanol <b>MF:</b> C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O<sub>2</sub> <b>MW:</b> 159.19 <b>CAS No.</b> 48121-20-6</p>	Quetapine	
143	<p><b>N-Nitroso Quinapril EP Impurity A</b> <b>Chemical Name:</b> (R)-N-(1-(naphthalen-1-yl)ethyl)-N-(3-(3-(trifluoromethyl)phenyl)propyl)nitrous amide <b>MF:</b> C<sub>22</sub>H<sub>21</sub>F<sub>3</sub>N<sub>2</sub>O <b>MW:</b> 386.41 <b>CAS No:</b> NA</p>	Quinapril	
144	<p><b>N-Nitroso Quinapril</b> <b>Chemical Name:</b>(S)-2-(N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl)-1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid <b>MF:</b> C<sub>25</sub>H<sub>29</sub>N<sub>3</sub>O<sub>6</sub> <b>MW:</b> 467.5 <b>CAS No:</b> NA</p>	Quinapril	
145	<p><b>N Nitroso Ramipril</b> <b>Chemical Name:</b> (2S,3aS,6aS)-1-(N-((S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl)-N-nitroso-L-alanyl)octahydrocyclopenta[b]pyrrole-2-carboxylic acid <b>MF:</b> C<sub>23</sub>H<sub>31</sub>N<sub>3</sub>O<sub>6</sub> <b>MW:</b> 445.51 <b>CAS No:</b> NA</p>	Ramipril	
146	<p><b>N-Nitroso Ranolazine</b> <b>Chemical Name:</b> N-(2,6-dimethylphenyl)-2-(4-nitrosopiperazin-1-yl)acetamide <b>MF:</b> C<sub>14</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub> <b>MW:</b> 276.16 <b>CAS No:</b> NA</p>	Ranolazine Intermediate	

147	<b>N-Nitroso Resperidone Difluorobenzoyl Impurity</b> <b>Chemical Name:</b> (2,4-difluorophenyl)(1-nitrosopiperidin-4-yl)methanone <b>M.F:</b> C <sub>12</sub> H <sub>12</sub> F <sub>2</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 254.23 <b>CAS No:</b> NA	Resperidone	
148	<b>N-Nitroso ranolazine related compound C</b> <b>Chemical Name:</b> N-(2,6-dimethylphenyl)-2-(4-nitrosopiperazin-1-yl)acetamide <b>MF:</b> C <sub>14</sub> H <sub>20</sub> N <sub>4</sub> O <sub>2</sub> <b>MW:</b> 276.16 <b>CAS No:</b> NA	Ranolazine Intermediate	
149	<b>N Nitroso Rasagiline</b> <b>Chemical Name:</b> (R)-N-(2,3-Dihydro-1H-inden-1-yl)-N-(prop-2-yn-1-yl)nitrous amide <b>MF:</b> C <sub>12</sub> H <sub>12</sub> N <sub>2</sub> O <b>MW:</b> 200.2 <b>CAS No:</b> 2470278-90-9	Rasagiline	
150	<b>N-Nitroso cyclopentylpiperazine</b> <b>Chemical Name:</b> 1-Cyclopentyl-4-nitrosopiperazine <b>MF:</b> C <sub>9</sub> H <sub>17</sub> N <sub>3</sub> O <b>MW:</b> 183.26 <b>CAS No:</b> 61379-66-6	Rifapentine	
151	<b>Rivaroxaban Nitroso Impurity 1</b> <b>Chemical Name:</b> N-(2-hydroxyethyl)-N-phenylnitrous amide <b>MF:</b> C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 166.2 <b>CAS No:</b> 25413-76-7	Rivaroxaban Intermediate	
152	<b>N Nitroso Rivaroxaban Open Ring Acid Impurity</b> <b>Chemical Name:</b> (S)-2-(2-((4-(5-((5-chlorothiophene-2-carboxamido)methyl)-2-oxooxazolidin-3-yl)phenyl)(nitroso)amino)ethoxy)acetic acid <b>MF:</b> C <sub>19</sub> H <sub>19</sub> ClN <sub>4</sub> O <sub>7</sub> S <b>MW:</b> 482.9 <b>CAS No.</b> NA	Rivaroxaban	

153	<b>N Nitroso Rivaroxaban Impurity G</b> <b>Chemical Name:</b> (S)-5-chloro-N-(2-hydroxy-3-(nitroso(4-(3-oxomorpholino)phenyl)amino)propyl)thiophene-2-carboxamide <b>MF:</b> C <sub>18</sub> H <sub>19</sub> ClN <sub>4</sub> O <sub>5</sub> S <b>MW:</b> 438.89 <b>CAS No.</b> NA	Rivaroxaban	
154	<b>Rivaroxaban Nitroso Impurity</b> <b>Chemical Name:</b> (S)-N-(3-(1,3-dioxisoindolin-2-yl)-2-hydroxypropyl)-N-(4-(3-oxomorpholino)phenyl)nitrous amide <b>MF:</b> C <sub>21</sub> H <sub>20</sub> N <sub>4</sub> O <sub>6</sub> <b>MW:</b> 424.41 <b>CAS No.</b> NA	Rivaroxaban Intermediate	
155	<b>Rivaroxaban Nitroso Impurity 3</b> <b>Chemical Name:</b> (R)-N-(3-chloro-2-hydroxypropyl)-N-(4-(3-oxomorpholino)phenyl)nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>16</sub> ClN <sub>3</sub> O <sub>4</sub> <b>MW:</b> 313.74 <b>CAS No:</b> NA	Rivaroxaban Intermediate	
156	<b>6-Fluro-3(1-nitroso piperidin-4-yl)benzo(d)isoxazole</b> <b>Chemical Name:</b> 6-Fluro-3(1-nitroso piperidin-4-yl)benzo(d)isoxazole <b>MF:</b> C <sub>12</sub> H <sub>12</sub> FN <sub>3</sub> O <sub>2</sub> <b>MW:</b> 249.24 <b>CAS No:</b> NA	Risperidone	
157	<b>N-Nitroso Ritanilic Acid</b> <b>Chemical Name</b> 2-(1-nitrosopiperidin-2-yl)-2-phenylacetic acid <b>MF:</b> C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 248.28 <b>CAS No.</b> NA	Ritanilic Acid	
158	<b>N-Nitroso Salbutamol</b> <b>Chemical Name:</b> (9E)-Erythromycin N-(tert-butyl)-N-(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 268.31 <b>CAS No:</b> NA	Salbutamol	

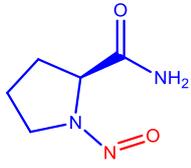
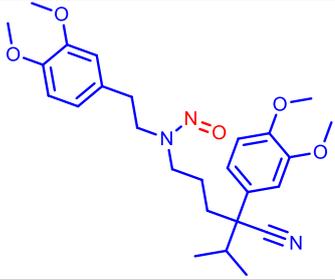
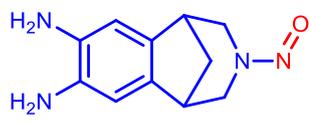
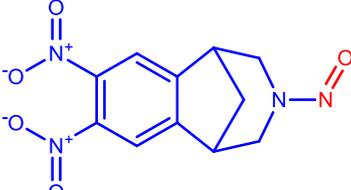
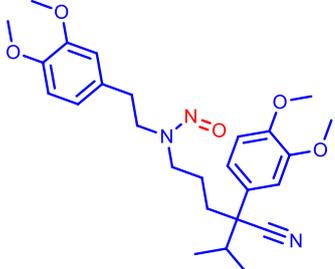
159	<b>N Nitroso Sertraline</b> <b>Chemical Name:</b> N-((4S)-4-(3,4-Dichlorophenyl)-1,2,3,4-tetrahydronaphthalen-1-yl)-N-methylnitrous amide <b>MF:</b> C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 334.23 <b>CAS No:</b> NA	Sertraline	
160	<b>N Nitroso Sitagliptin</b> <b>Chemical Name:</b> 7-nitroso-3-(trifluoromethyl)-5,6,7,8-tetrahydro- [1,2,4]triazolo[4,3-a]pyrazine <b>MF:</b> C <sub>6</sub> H <sub>6</sub> F <sub>3</sub> N <sub>5</sub> O <b>MW:</b> 221.05 <b>CAS No:</b> NA	Sitagliptin Intermediate	
161	<b>N Nitroso Solifenacin</b> <b>Chemical Name:</b> N-Nitroso (s)-1-phenyl 1,2,3,4,tetrahydro isoquinoline <b>MF:</b> C <sub>15</sub> H <sub>14</sub> N <sub>2</sub> O <b>MW:</b> 238.28 <b>CAS No:</b> NA	Solifenacin Intermediate	
162	<b>N Nitroso Salmeterol</b> <b>INT</b> <b>Chemical Name:</b> N-(Tert-butyl)-N-(2-hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 268.3 <b>CAS No.</b> NA	Salmeterol	
163	<b>N-Nitrososarcosine</b> <b>Chemical Name:</b> (1-nitrosopiperidin-2-yl)methanol <b>MF:</b> C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 118.04 <b>CAS No.</b> NA	Sarcosine	
164	<b>N-Nitroso sildenafil</b> <b>Chemical Name:</b> 5-(2-Ethoxy-5-((4-methylpiperazin-1-yl)sulfonyl)phenyl)-1-methyl-6-nitroso-3-propyl-1,6-dihydro-7H-pyrazolo[4,3-d]pyrimidin-7-one <b>MF:</b> C <sub>22</sub> H <sub>29</sub> N <sub>7</sub> O <sub>5</sub> S <b>MW:</b> 503.6 <b>CAS No.</b> NA	Sildenafil	

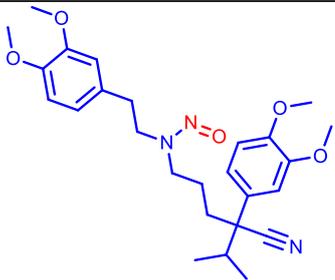
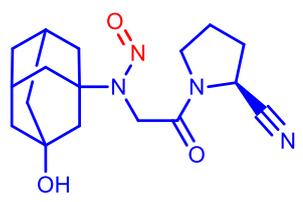
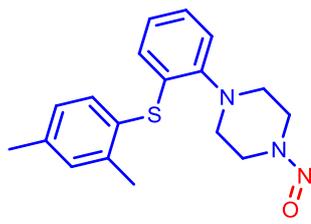
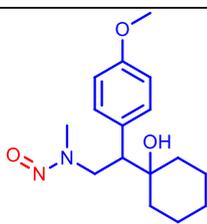
165	<b>N-Nitroso Salmeterol</b> <b>Chemical Name:</b> N-(2-Hydroxy-2-(4-hydroxy-3-(hydroxymethyl)phenyl)ethyl)-N-(6-(4-phenylbutoxy)hexyl)nitrous amide <b>M.F:</b> C <sub>25</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub> <b>M.W:</b> 444.56 <b>CAS NO:</b> NA	Salmeterol	
166	<b>N-Nitroso Trientine</b> <b>Chemical Name:</b> N-(2-aminoethyl)-N-((2-aminoethyl)amino)ethyl)nitrousamide <b>MF:</b> C <sub>6</sub> H <sub>17</sub> N <sub>5</sub> O <b>MW:</b> 175.23 <b>CAS No:</b> NA	Trientine	
167	<b>N Nitroso Tamsulosin</b> <b>Chemical Name:</b> (R)-5-(2-((2-ethoxyphenoxy)ethyl)(nitroso)amino)propyl)-2-methoxybenzenesulfonamide <b>MF:</b> C <sub>20</sub> H <sub>27</sub> N <sub>3</sub> O <sub>6</sub> S <b>MW:</b> 437.5 <b>CAS No:</b> NA	Tamsulosin	
168	<b>N Nitroso Timolol</b> <b>Chemical Name:</b> (S)-N-(tert-butyl)-N-(2-hydroxy-3-((4-morpholino-1,2,5-thiadiazol-3-yl)oxy)propyl)nitrous amide <b>MF:</b> C <sub>13</sub> H <sub>23</sub> N <sub>5</sub> O <sub>4</sub> S <b>MW:</b> 345.42 <b>CAS No.</b> NA	Timolol	
169	<b>N-Nitrosamine Trimetazidine</b> <b>Chemical Name:</b> 1-Nitroso-4-(2,3,4-trimethoxybenzyl)piperazine hydrochloride <b>MF:</b> C <sub>14</sub> H <sub>21</sub> N <sub>3</sub> O <sub>4</sub> : HCl <b>MW</b> 295.3: 36.5 <b>CAS No:</b> 92432-50-3	Trimetazidine Dihydrochloride	
170	<b>N-Nitroso Teneiglipitin</b> <b>Chemical Name:</b> (4-(4-(3-Methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl)-1-nitrosopyrrolidin-2-yl)(thiazolidin-3-yl)methanone <b>MF:</b> C <sub>22</sub> H <sub>29</sub> N <sub>7</sub> O <sub>2</sub> S <b>MW:</b> 455.21 <b>CAS No.</b> NA	Teneiglipitin	
171	<b>N-Nitroso Thioproline</b> <b>Chemical Name:</b> 3-nitrosothiazolidine-4-carboxylic acid <b>M.F:</b> C <sub>12</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 291.24 <b>CAS No:</b> 88381-44-6	Thioproline	

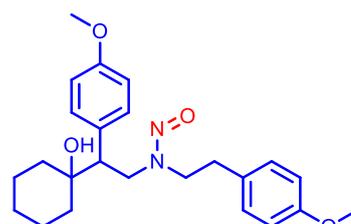
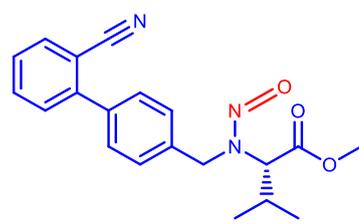
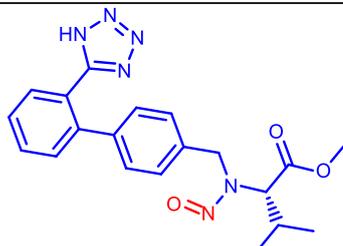
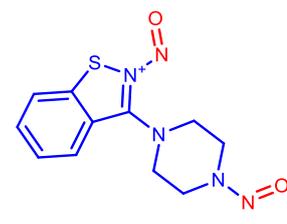
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172	<b>N-Nitroso Prolinamide</b> <b>Chemical Name:</b> Name (S)-1-Nitrosopyrrolidine-2-Carboxamide <b>MF:</b> C <sub>5</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> <b>MW:</b> 143.1 <b>CAS NO:</b> 79108-51-3	Vildagliptin Intermediate	
173	<b>N-Nitroso Verapamil</b> <b>Chemical Name:</b> N-(4-Cyano-4-(3,4-dimethoxyphenyl)-5-methylhexyl)-N-(3,4-dimethoxyphenethyl)nitrous amide <b>MF:</b> C <sub>26</sub> H <sub>35</sub> N <sub>3</sub> O <sub>5</sub> <b>MW:</b> 469.57 <b>CAS No.</b> NA	Verapamil	
174	<b>Varneciline Impurity 9</b> <b>Chemical Name:</b> 8-nitroso-7,8,9,10-tetrahydro-6H-6,10-methanoazepino[4,5-g]quinoxaline <b>MF:</b> C <sub>13</sub> H <sub>12</sub> N <sub>4</sub> O <b>MW:</b> 240.26 <b>CAS No:</b> 2755871-02-2	Varneciline	
175	<b>Varneciline Impurity 17</b> <b>Chemical Name:</b> [3-Nitroso-2,3,4,5-tetrahydro-1H-1,5-methanobenzo[d]azepine-7,8-diamine] <b>MF:</b> C <sub>11</sub> H <sub>14</sub> N <sub>4</sub> O <b>MW:</b> 218.6 <b>CAS No:</b> 2803960-64-5	Varneciline	
176	<b>Varneciline Impurity 10 (Dinitroso)</b> <b>Chemical Name:</b> 4,5-Dinitro-10-nitroso-10-azatricyclo[6.3.1.0(2,7)]dodeca-2,4,6-triene <b>MF:</b> C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> O <sub>5</sub> <b>MW:</b> 278.07 <b>CAS No:</b> NA	Varneciline	
177	<b>N-Nitroso Verapamil</b> <b>Chemical Name:</b> N-(4-Cyano-4-(3,4-dimethoxyphenyl)-5-methylhexyl)-N-(3,4-dimethoxyphenethyl)nitrous amide <b>MF:</b> C <sub>26</sub> H <sub>35</sub> N <sub>3</sub> O <sub>5</sub> <b>MW:</b> 469.57 <b>CAS No.</b> NA	Verapamil	

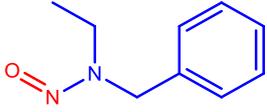
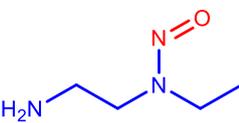
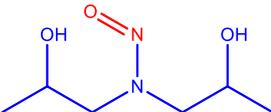
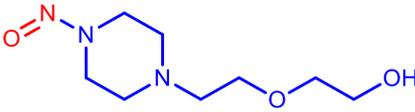
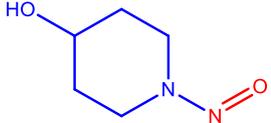
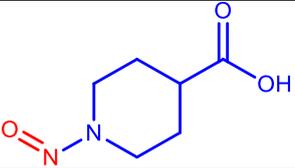
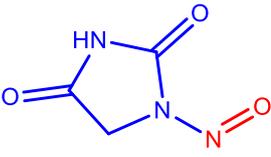
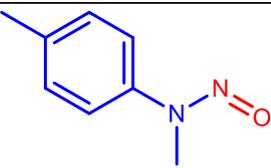
178	<b>N-Nitroso Verapamil</b> <b>Chemical Name:</b> N-(4-Cyano-4-(3,4-dimethoxyphenyl)-5-methylhexyl)-N-(3,4-dimethoxyphenethyl)nitrous amide <b>MF:</b> C <sub>26</sub> H <sub>35</sub> N <sub>3</sub> O <sub>5</sub> <b>MW:</b> 469.57 <b>CAS No.</b> NA	Verapamil	
179	<b>Nitroso Vildagliptin Impurity 1</b> <b>Chemical Name:</b> N-(2-((S)-2-cyanopyrrolidin-1-yl)-2-oxoethyl)-N-(3-hydroxyadamantan-1-yl)nitrous amide <b>MF:</b> C <sub>17</sub> H <sub>24</sub> N <sub>4</sub> O <sub>3</sub> <b>MW:</b> 332.40 <b>CAS No:</b> NA	Vildagliptin	
180	<b>1-(2-((2,4-dimethylphenyl) thio) phenyl)-4-nitrosopiperazine</b> <b>Chemical Name:</b> 1-(2-((2,4-dimethylphenyl) thio) phenyl)-4-nitrosopiperazine <b>MF:</b> C <sub>18</sub> H <sub>21</sub> N <sub>3</sub> O S <b>MW:</b> 327.44 <b>CAS No:</b> NA	Vortoxitine	
181	<b>N-Nitroso Venlafaxine Impurity</b> <b>Chemical Name:</b> (RS)-N-(2-(1-hydroxycyclohexyl)-2-(4-methoxyphenyl)ethyl)-N-methylnitrous amide <b>MF:</b> C <sub>16</sub> H <sub>24</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 292.18 <b>CAS No.</b> NA	Venlafaxine	
182	<b>N-Nitroso Venlafaxine Impurity E</b> <b>Chemical Name:</b> 5-(4-Methoxyphenyl)-3-Nitroso-1-oxa-3-azaspiro[5.5]undecane <b>MF:</b> C <sub>16</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 290.36 <b>CAS No.</b> NA	Venlafaxine Impurity E	

183	<b>N-Nitroso Venlafaxine Impurity F</b> <b>Chemical Name:</b> 5-(4-Methoxyphenyl)-3-Nitroso-1-oxa-3-azaspiro[5.5]undecane <b>MF:</b> C <sub>16</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 274.36 <b>CAS No.</b> NA	Venlafaxine Impurity F	
184	<b>N-Nitroso Venlafaxine Impurity H</b> <b>Chemical Name:</b> N-(2-(1-hydroxycyclohexyl)-2-(4-methoxyphenyl)ethyl)-N-(4-methoxyphenethyl)nitrous amide <b>MF:</b> C <sub>24</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub> <b>MW:</b> 412.52 <b>CAS No.</b> NA	Venlafaxine Impurity H	
185	<b>Nitroso N(2-cyno(1,1 biphenyl)4-yl)methyl-L-valine methyl ester</b> <b>Chemical Name:</b> (S)-methyl 2-(((2'-cyano-[1,1'-biphenyl]-4-yl)methyl)(nitroso)amino)-3-methylbutanoate <b>MF:</b> C <sub>20</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub> <b>MW:</b> 351.40 <b>CAS No.</b> NA	Valsartan	
186	<b>Nitroso valsartan desvaleryl methyl ester</b> <b>Chemical Name:</b> (S)-methyl 2-(((2'-(1H-tetrazol-5-yl)-[1,1'-biphenyl]yl)methyl)(nitroso)amino)-3-methylbutanoate <b>MF:</b> C <sub>20</sub> H <sub>22</sub> N <sub>6</sub> O <sub>3</sub> <b>MW:</b> 394.43 <b>CAS No.</b> NA	Valsartan	
187	<b>N-Nitroso Ziprasidone</b> <b>Chemical Name:</b> 2-nitroso-3-(4-nitrosopiperazin-1-yl)benzo[d]isothiazol-2-ium <b>MF:</b> C <sub>11</sub> H <sub>12</sub> N <sub>5</sub> O <sub>2</sub> S <b>MW:</b> 278.31 <b>CAS No:</b> NA	Ziprasidone	
188	<b>N-Nitroso Ziprasidone</b> <b>Chemical Name:</b> 3-(4-nitroso piperazine-1-yl) benzo [d] isothiazole <b>MF:</b> C <sub>11</sub> H <sub>12</sub> N <sub>4</sub> OS <b>MW:</b> 248.30 <b>CAS No.</b> 14340-33-1	Ziprasidone	



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189	<b>N-Nitroso-N-Ethyl-Benzylamine</b> <b>Chemical Name:</b> N-Ethyl-N-nitrosobenzylamine <b>MF:</b> C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <b>MW:</b> 164.20 <b>CAS No.</b> 20689-96-7	
190	<b>N-Nitroso Ethyl ethylenediamine</b> <b>Chemical Name:</b> N-(2-aminoethyl)-N-ethylnitrous amide <b>MF:</b> C <sub>4</sub> H <sub>11</sub> N <sub>3</sub> O <b>MW:</b> 117.15 <b>CAS No.</b> NA	
191	<b>N-Nitroso Diisopropanol Amine</b> <b>Chemical Name:</b> 1,1'-(Nitrosoimino)bis-2-propanol <b>MF:</b> C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 162.19 <b>CAS No.</b> 53609-64-6	
192	<b>2-(2-(4-nitrosopiperazin-1-yl)ethoxy)ethanol</b> <b>Chemical Name:</b> 2-(2-(4-nitrosopiperazin-1-yl)ethoxy)ethanol <b>MF:</b> C <sub>8</sub> H <sub>17</sub> N <sub>3</sub> O <sub>3</sub> <b>MW:</b> 203.24 <b>CAS No.</b> NA	
193	<b>N-Nitroso 4-hydroxy piperidine</b> <b>Chemical Name:</b> N-Nitroso-4-piperidinol <b>MF:</b> C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 130.1 <b>CAS No.</b> 5556-93-9	
194	<b>N-Nitroso Isonipecotic acid</b> <b>Chemical Name:</b> 4-Carboxy-1-Nitrosopiperdine <b>MF:</b> C <sub>6</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 158.18 <b>CAS No.</b> 6238-69-3	
195	<b>N-Nitroso Hydantoin</b> <b>Chemical Name:</b> 1-nitrosoimidazolidine-2,4-dione <b>MF:</b> C <sub>3</sub> H <sub>3</sub> N <sub>3</sub> O <sub>3</sub> <b>MW:</b> 129.07 <b>CAS No.</b> 42579-28-2	
196	<b>N-Methyl-N-(p-tolyl)nitrous amide</b> <b>Chemical Name:</b> N-Methyl-N-(p-tolyl)nitrous amide <b>MF:</b> C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <b>MW:</b> 150.02 <b>CAS No.</b> 937-24-6	
197	<b>N-Nitroso Bis (2-chloroethyl) amine</b> <b>Chemical Name:</b> N,N-bis(2-chloroethyl)nitrous amide <b>MF:</b> C <sub>4</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O <b>MW:</b> 171.03 <b>CAS No.</b> 67856-68-2	



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198	<p><b>N-Nitroso-4-methyl amino 3-nitrobenzoic acid</b> <b>Chemical Name:</b> 4-(methyl(nitroso)amino)-3-nitrobenzoic acid <b>MF:</b> C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>O<sub>5</sub> <b>MW:</b> 225.16 <b>CAS No:</b> NA</p>	
199	<p><b>N-Cylohexyl-N-Methyl nitrous amide</b> <b>Chemical Name:</b> N-Nitroso methylcyclohexylamine <b>MF:</b> C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O <b>MW:</b> 142.20 <b>CAS No:</b> 5432-28-0</p>	
200	<p><b>N'-Nitro-N-nitroso-N-methylguanidine</b> <b>Chemical Name:</b> 1-Methyl-3-nitro-1-nitrosoguanidine <b>MF:</b> C<sub>2</sub>H<sub>5</sub>N<sub>5</sub>O<sub>3</sub> <b>MW:</b> 147.90 <b>CAS No.</b> 70-25-7</p>	
201	<p><b>2-Methyl-4-nitro-1-nitroso-1H-Imidazole</b> <b>Chemical Name:</b> 2-Methyl-4-nitro-1-nitroso-1H-Imidazole <b>MF:</b> C<sub>4</sub>H<sub>4</sub>N<sub>4</sub>O<sub>3</sub> <b>MW:</b> 156.10 <b>CAS No.</b> NA</p>	
202	<p><b>N-Nitroso-N-Ethyl piperazine</b> <b>Chemical Name:</b> 1-Ethyl-4-nitrosopiperazine <b>MF:</b> C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O <b>MW:</b> 143.19 <b>CAS No.</b> 65504-33-8</p>	
203	<p><b>N-Nitroso-4-piperidinol</b> <b>Chemical Name:</b> N-nitroso-4-hydroxypiperidine <b>MF:</b> C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 130.15 <b>CAS No.</b> 55556-93-9</p>	
204	<p><b>N-Nitroso methyl octylamine</b> <b>Chemical Name:</b> N-Methyl-N-nitrosooctylamine <b>MF:</b> C<sub>9</sub>H<sub>20</sub>N<sub>2</sub>O <b>MW:</b> 172.31 <b>CAS No.</b> 34423-54-6</p>	
205	<p><b>N Nitroso Benzylethanolamine</b> <b>Chemical Name:</b> N-benzyl-N-(2-hydroxyethyl)nitrous amide <b>MF:</b> C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 180.20 <b>CAS No.</b> NA</p>	

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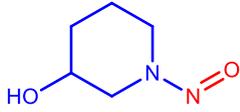
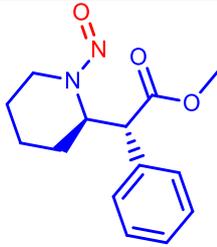
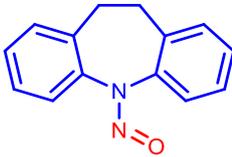
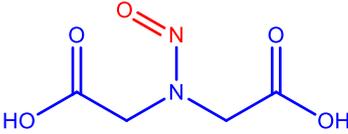
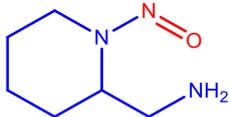
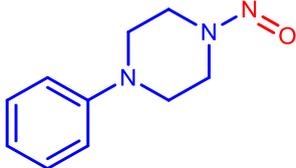
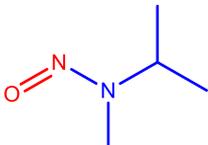
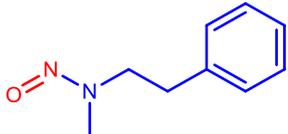
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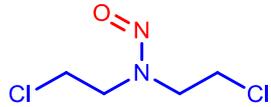
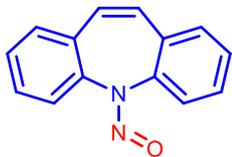
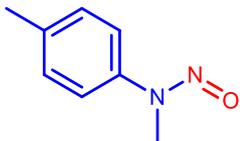
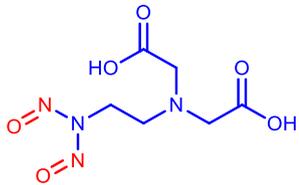
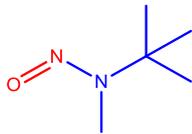
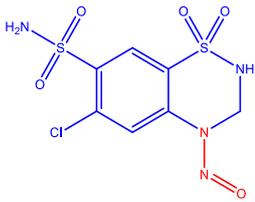
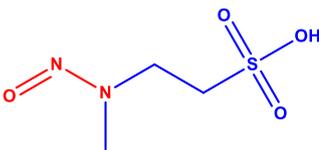
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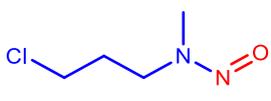
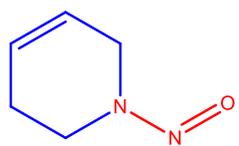
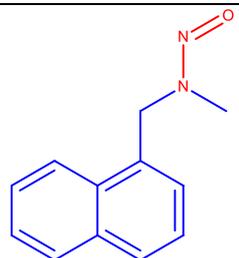
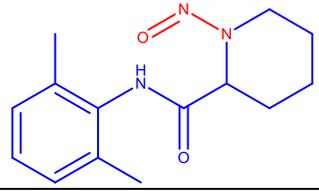
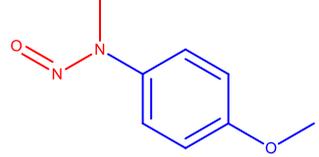
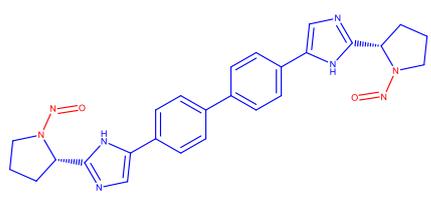
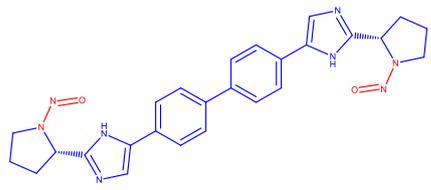
206	<b>N-Nitroso-3-Hydroxypiperidine</b> <b>Chemical Name:</b> N-Nitroso-3-Hydroxypiperidine <b>MF:</b> C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 130.15 <b>CAS No.</b> 55556-85-9		
207	<b>N-Nitroso Methylphenidate</b> <b>Chemical Name:</b> N-Nitroso Methylphenidate <b>MF:</b> C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub> <b>MW:</b> 262.3 <b>CAS No.</b> 55557-03-4		
208	<b>N Nitroso Imidodibenzyl</b> <b>Chemical Name:</b> 5-Nitroso-10,11-dihydro-5H-dibenzo[b,f]azepine <b>MF:</b> C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <b>MW:</b> 224.3 <b>CAS No.</b> 7458-08-4		
209	<b>N-nitroso Iminodiacetic acid</b> <b>Chemical Name:</b> 2,2'-(Nitrosoimino)bisacetic acid <b>MF:</b> C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> O <sub>5</sub> <b>MW:</b> 162.1 <b>CAS No.</b> 25081-31-6		
210	<b>N- Nitroso 2-(aminomethyl) piperidine</b> <b>Chemical Name:</b> (L-Nitroso Piperidine-2-yl) methamine <b>MF:</b> C <sub>46</sub> H <sub>13</sub> N <sub>3</sub> O <b>MW:</b> 143.19 <b>CAS No.</b> 25081-31-6		
211	<b>1-Nitroso-4-phenylpiperazine</b> <b>Chemical Name:</b> 1-Nitroso-4-phenylpiperazine <b>MF:</b> C <sub>10</sub> H <sub>13</sub> N <sub>3</sub> O <b>MW:</b> 191.23 <b>CAS No.</b> 14340-3-1		
212	<b>N-Isopropylmethyl Nirosoamine</b> <b>Chemical Name:</b> N-Methyl-N-nitroso-2-propanamine <b>MF:</b> C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <b>MW:</b> 102.1 <b>CAS No.</b> 30533-08-5		
213	<b>N-methyl-2phenyl ethyl amine</b> <b>Chemical Name:</b> N Nitroso N-methyl-2phenyl ethyl amine <b>MF:</b> C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <b>MW:</b> 164.20 <b>CAS No:</b> 13256-11-6		



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214	<p><b>N Nitroso Bis(2-chloroethyl)amine</b> <b>Chemical Name:</b> N,N-bis(2-chloroethyl)nitrous amide <b>MF:</b> C<sub>4</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>2</sub>O <b>MW:</b>171.03 <b>CAS No.</b> 67856-68-2</p>		
215	<p><b>N-nitroso Iminostilbene</b> <b>Chemical Name:</b> 5-nitroso-5H-dibenzo[b,f]azepine <b>MF:</b> C<sub>14</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b>222.24 <b>CAS No.</b> 38652-29-8</p>		
216	<p><b>N-Methyl-N-(p-tolyl)nitrous amide</b> <b>Chemical Name:</b> N-Methyl-N-(p-tolyl)nitrous amide <b>MF:</b> C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O <b>MW:</b> 150.2 <b>CAS No.</b> 937-24-6</p>		
217	<p><b>N-N -Dinitroso Ethylene diamine</b> <b>N,N-diacetic acid</b> <b>Chemical Name-</b> N-N -Dinitroso Ethylene diamine N,N-diacetic acid <b>M.F:</b> C<sub>6</sub>H<sub>10</sub>N<sub>4</sub>O<sub>6</sub> <b>M.W:</b>234.06 <b>CAS No.:</b> NA</p>	Ethylene diamine N,N-diacetic acid	
218	<p><b>N-Nitroso Tertiary butyl methyl amine</b> <b>Chemical Name:</b> N-Nitroso-methyl- tertbutyl-amine <b>MF:</b> C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW:</b> 116.16 <b>CAS No</b> :2504-18-9</p>	Tertiary butyl methyl amine	
219	<p><b>4-Nitroso Hydrochlorothiazide</b> <b>Chemical Name:</b> 6-Chloro-4-nitroso-3,4- dihydro-2H-benzo[e][1,2,4]thiadiazine-7- sulfonamide 1,1-dioxide <b>M.F:</b> C<sub>7</sub>H<sub>7</sub>ClN<sub>4</sub>O<sub>5</sub>S<sub>2</sub> <b>MW:</b> 326.7 <b>CAS No:</b> 63779-86-2</p>	Hydro- chlorothiazide	
220	<p><b>N-Nitroso N-methyl taurine</b> <b>Chemical Name:</b> 2- (methyl(nitroso)amino)ethanesulfonic acid <b>M.F:</b> C<sub>3</sub>H<sub>8</sub>N<sub>2</sub>O<sub>4</sub>S <b>MW:</b> 168.02 <b>CAS No:</b> NA</p>	N-methyl taurine	

221	<p><b>3-Chloro-N-Nitroso-N-methyl propylamine</b> <b>Chemical Name :</b> N-(3-chloropropyl)-N-methylnitrous amide <b>MF:</b> C<sub>4</sub>H<sub>9</sub>ClN<sub>2</sub>O <b>MW:</b> 136.04 <b>CAS No.:</b> NA</p>	3-Chloro-N-Methyl-Propylamine	
222	<p><b>1-Nitroso-1,2,3,6-tetrahydropyridine</b> <b>Chemical Name:</b> 1-Nitroso-1,2,3,6-tetrahydropyridine <b>M.F:</b> C<sub>5</sub>H<sub>8</sub>N<sub>2</sub>O <b>MW:</b> 112.1 <b>CAS No:</b> 55556-92-8</p>		
223	<p><b>Nitroso of Terbinafine EP impurity A</b> <b>Chemical Name:</b> N-methyl-N-(naphthalen-1-ylmethyl)nitrous amide <b>M.F:</b> C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW:</b> 200.24 <b>CAS No:</b> 296760-88-8</p>	Terbinafine	
224	<p><b>N-Nitroso Bupivacaine EP Impurity B</b> <b>Chemical Name:</b> N-(2,6-dimethylphenyl)-1-nitrosopiperidine-2-carboxamide <b>M.F:</b> C<sub>14</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub> <b>MW:</b> 261.32 <b>CAS No:</b> NA</p>	Bupivacaine	
225	<p><b>N-Nitroso 4-methoxy N-Methyl aniline</b> <b>Chemical Name:</b> N-Nitroso 4-methoxy N-Methyl aniline <b>M.F:</b> C<sub>8</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 166.18 <b>CAS No:</b> NA</p>		
226	<p><b>N-Nitroso Daclastavir INT</b> <b>Chemical Name:</b> 4,4'-bis(2-((S)-1-nitrosopyrrolidin-2-yl)-1H-imidazol-5-yl)-1,1'-biphenyl <b>M.F:</b> C<sub>26</sub>H<sub>26</sub>N<sub>8</sub>O<sub>2</sub> <b>MW:</b> 482.54 <b>CAS No:</b> NA</p>	Daclastavir	
227	<p><b>N-Nitroso Daclastavir INT</b> <b>Chemical Name:</b> 4,4'-bis(2-((S)-1-nitrosopyrrolidin-2-yl)-1H-imidazol-5-yl)-1,1'-biphenyl <b>M.F:</b> C<sub>26</sub>H<sub>26</sub>N<sub>8</sub>O<sub>2</sub> <b>MW:</b> 482.54 <b>CAS No:</b> NA</p>	Daclastavir	



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228	<p><b>N-Nitroso Respiridone EP Impurity M</b> <b>Chemical Name:</b> 6-fluoro-3-(1-nitrosopiperidin-4-yl)benzo[d]isoxazole <b>M.F:</b> C<sub>12</sub>H<sub>12</sub>FN<sub>3</sub>O<sub>2</sub> <b>MW:</b> 249.24 <b>CAS No:</b> NA</p>	Respiridone	
229	<p><b>N-Nitroso Ranitidine EP Impurity K</b> <b>Chemical Name:</b> (E)-N-methyl-N-(1-(methylthio)-2-nitrovinyl)nitrous amide <b>M.F:</b> C<sub>4</sub>H<sub>7</sub>N<sub>3</sub>O<sub>3</sub>S <b>MW:</b> 177.18 <b>CAS No:</b> NA</p>	Ranitidine	
230	<p><b>N-Nitroso Enalapril EP Impurity B</b> <b>Chemical Name:</b> 2-((1-ethoxy-1-oxo-4-phenylbutan-2-yl)(nitroso)amino)propanoic acid <b>M.F:</b> C<sub>15</sub>H<sub>20</sub>N<sub>2</sub>O<sub>5</sub> <b>MW:</b> 308.33 <b>CAS No:</b> NA</p>	Enalapril	
231	<p><b>N-Nitroso Chlorophenaramine EP Impurity C</b> <b>Chemical Name:</b> N-(3-(4-chlorophenyl)-3-(pyridin-2-yl)propyl)-N-methylnitrous amide <b>M.F:</b> C<sub>15</sub>H<sub>16</sub>ClN<sub>3</sub>O <b>MW:</b> 289.76 <b>CAS No:</b> NA</p>	Chlorophenaramine	
232	<p><b>N-Nitroso Gadoteridol</b> <b>Chemical Name:</b> 2,2',2''-(10-nitroso-1,4,7,10-tetraazacyclododecane-1,4,7-triyl)triacetic acid <b>M.F:</b> C<sub>14</sub>H<sub>25</sub>N<sub>5</sub>O<sub>7</sub> <b>MW:</b> 375.4 <b>CAS No:</b> 2892260-33-0</p>	Gadoteridol	
233	<p><b>N-Nitroso Duloxetine Ep Impurity B</b> <b>Chemical Name:</b> (S)-N-(3-hydroxy-3-(thiophen-2-yl)propyl)-N-methylnitrous amide <b>M.F:</b> C<sub>8</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>S <b>MW:</b> 200.26 <b>CAS No:</b> NA</p>	Duloxetine	



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234	<p><b>N-Nitroso Imiquimod</b> <b>Chemical Name:</b> 4-(methyl(nitroso)amino)-3-nitrobenzoic acid <b>M.F:</b> C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>O<sub>5</sub> <b>MW:</b> 225.16 <b>CAS No:</b> NA</p>	Imiquimod	
235	<p><b>N-Nitroso Norfloxacin</b> <b>Chemical Name:</b> 1-ethyl-6-fluoro-7-(4-nitrosopiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid <b>M.F:</b> C<sub>16</sub>H<sub>17</sub>FN<sub>4</sub>O<sub>4</sub> <b>MW:</b> 348.33 <b>CAS No:</b> NA</p>	Norfloxacin	
236	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> 4-Methyl-1-Nitroso-2-phenylpiperazine <b>M.F:</b> C<sub>11</sub>H<sub>15</sub>N<sub>3</sub>O <b>MW:</b> 205.26 <b>CAS No:</b> NA</p>	Mirtazepine	
237	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> 1-methyl-4-nitroso-2-phenylpiperazine <b>M.F:</b> C<sub>11</sub>H<sub>15</sub>N<sub>3</sub>O <b>MW:</b> 205.26 <b>CAS No:</b> NA</p>	Mirtazepine	
238	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> tert-butyl-4-nitroso-3-phenyl piperazine-1-carboxylate <b>M.F:</b> C<sub>15</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b> 291.35 <b>CAS No:</b> NA</p>	Mirtazepine	



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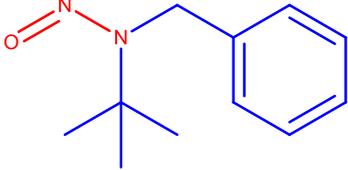
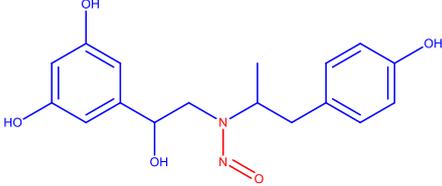
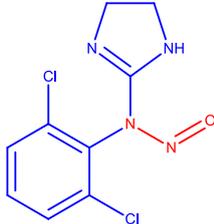
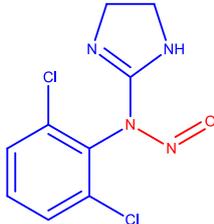
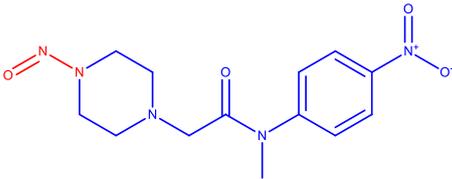
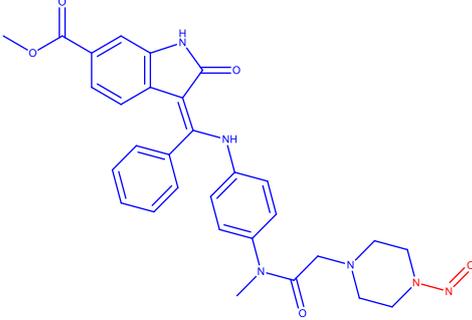
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239	<p><b>N-Nitroso Imiquimod</b> <b>Chemical Name:</b> 4-(methyl(nitroso)amino)-3-nitrobenzoic acid <b>M.F:</b> C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>O<sub>5</sub> <b>MW:</b> 225.16 <b>CAS No:</b> NA</p>	Imiquimod	
240	<p><b>N-Nitroso Norfloxacin</b> <b>Chemical Name:</b> 1-ethyl-6-fluoro-7-(4-nitrosopiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid <b>M.F:</b> C<sub>16</sub>H<sub>17</sub>FN<sub>4</sub>O<sub>4</sub> <b>MW:</b> 348.33 <b>CAS No:</b> NA</p>	Norfloxacin	
241	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> 4-Methyl-1-Nitroso-2-phenylpiperazine <b>M.F:</b> C<sub>11</sub>H<sub>15</sub>N<sub>3</sub>O <b>MW:</b> 205.26 <b>CAS No:</b> NA</p>	Mirtazepine	
242	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> 1-methyl-4-nitroso-2-phenylpiperazine <b>M.F:</b> C<sub>11</sub>H<sub>15</sub>N<sub>3</sub>O <b>MW:</b> 205.26 <b>CAS No:</b> NA</p>	Mirtazepine	
243	<p><b>N-Nitroso Mirtazepine INT</b> <b>Chemical Name:</b> tert-butyl-4-nitroso-3-phenyl piperazine-1-carboxylate <b>M.F:</b> C<sub>15</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b> 291.35 <b>CAS No:</b> NA</p>	Mirtazepine	
244	<p><b>N-Nitroso Silodosin</b> <b>Chemical Name:</b> (R)-1-(3-Hydroxypropyl)-5-(2-(nitroso(2-(2-(2,2,2-trifluoroethoxy)phenoxy)ethyl)amino)propyl)indoline-7-carboxamide <b>M.F:</b> C<sub>25</sub>H<sub>31</sub>F<sub>3</sub>N<sub>4</sub>O<sub>5</sub> <b>MW:</b> 524.53 <b>CAS No:</b> NA</p>	Silodosin	



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245	<p><b>N-Nitroso Terbutaline INT</b> <b>Chemical Name:</b> N-benzyl-N-(tert-butyl)nitrous amide <b>M.F:</b> C<sub>25</sub>H<sub>31</sub>F<sub>3</sub>N<sub>4</sub>O<sub>5</sub> <b>MW:</b> 524.53 <b>CAS No:</b> 20002-25-9</p>	Terbutaline	
246	<p><b>N-Nitroso Feneterol</b> <b>Chemical Name:</b> N-(2-(3,5-Dihydroxyphenyl)-2-hydroxyethyl)-N-(1-(4-hydroxyphenyl)propan-2-yl)nitrous amide <b>M.F:</b> C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O<sub>5</sub> <b>MW:</b> 332.35 <b>CAS No:</b> NA</p>	Feneterol	
247	<p><b>N-Nitroso Clonidine</b> <b>Chemical Name:</b> N-(2,6-Dichlorophenyl)-N-(4,5-dihydro-1H-imidazol-2-yl)nitrous amide <b>M.F:</b> C<sub>9</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>4</sub>O <b>MW:</b> 259.09 <b>CAS No:</b> NA</p>	Clonidine	
248	<p><b>N-Nitroso Lumefantrine</b> <b>Chemical Name:</b> N-(2,6-Dichlorophenyl)-N-(4,5-dihydro-1H-imidazol-2-yl)nitrous amide <b>M.F:</b> C<sub>9</sub>H<sub>8</sub>Cl<sub>2</sub>N<sub>4</sub>O <b>MW:</b> 259.09 <b>CAS No:</b> NA</p>	Lumefantrine	
249	<p><b>N-Nitroso Nintedanib Impurity 3</b> <b>Chemical Name:</b> N-Methyl-N-(4-nitrophenyl)-2-(4-nitropiperazin-1-yl)acetamide <b>M.F:</b> C<sub>30</sub>H<sub>30</sub>N<sub>6</sub>O<sub>5</sub> <b>MW:</b> 554.60 <b>CAS No:</b> NA</p>	Nintedanib	
250	<p><b>Nintedanib des methyl Nitroso</b> <b>Chemical Name:</b> methyl(z)-3(((4-(N-methyl-2-(4-nitrosopiperazin-1-yl)acetamido)phenyl)amino)(Phenyl)methylene)-2-oxoindoline-6-carboxylate <b>M.F:</b> C<sub>13</sub>H<sub>17</sub>N<sub>5</sub>O<sub>4</sub> <b>MW:</b> 307.03 <b>CAS No:</b> NA</p>	Nintedanib	



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251	<p><b>N-Nitroso Piperaquine Impurity A</b> <b>Chemical Name:</b> 7-Chloro-4-(4-nitrosopiperazin-1-yl)quinoline <b>M.F:</b>C<sub>13</sub>H<sub>13</sub>ClN<sub>4</sub>O <b>MW:</b> 276.7 <b>CAS No:</b> 32863-63-1</p>	Piperaquine	
252	<p><b>N-Nitroso Mirabegron (S) Isomer</b> <b>Chemical Name:</b> (S)-2-(2-aminothiazol-4-yl)-N-(4-(2-((2-hydroxy-2-phenylethyl)(nitroso)amino)ethyl)phenyl)acetamide <b>M.F:</b>C<sub>21</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S <b>MW:</b> 425.50 <b>CAS No:</b> NA</p>	Mirabegron(S) isomer	
253	<p><b>N-Nitroso Cetrizine EP Impurity A</b> <b>Chemical Name:</b> 1-(4-Chloro-benzhydryl)-4-nitroso-piperazine <b>M.F:</b>C<sub>17</sub>H<sub>18</sub>ClN<sub>3</sub>O <b>MW:</b> 315.80 <b>CAS No:</b> 2005-04-1</p>	Cetrizine	
254	<p><b>N-Nitrosodesipramine</b> <b>Chemical Name:</b> 10,11-Dihydro-N-methyl-N-nitroso-5H-dibenz[b,f]azepine-5-propanamine <b>M.F:</b>C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>O <b>MW:</b> 295.38 <b>CAS No:</b> 57164-17-7</p>	Imipramine	
255	<p><b>N-Nitroso Rasagiline</b> <b>Chemical Name:</b> (R)-N-(2,3-dihydro-1H-inden-1-yl)-N-(prop-2-yn-1-yl)nitrous amide <b>M.F:</b> C<sub>12</sub>H<sub>12</sub>N<sub>2</sub>O <b>MW:</b> 200.2 <b>CAS No:</b> 2470278-90-9</p>	Rasagiline	
256	<p><b>N-Nitroso 1-deoxy-1-octylamino-D-Glucitol</b> <b>Chemical Name:</b> N-octyl-N-((2S,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl)nitrous amide <b>M.F:</b> C<sub>14</sub>H<sub>30</sub>N<sub>2</sub>O<sub>6</sub> <b>MW:</b> 322.40 <b>CAS No:</b> NA</p>	1-deoxy-1-octylamino-D-Glucitol	



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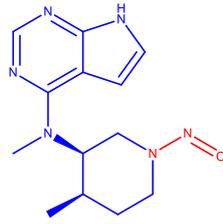
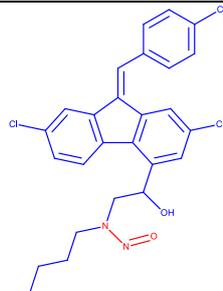
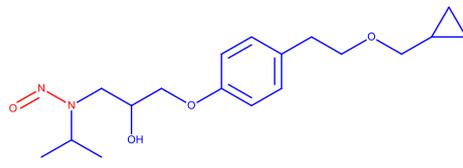
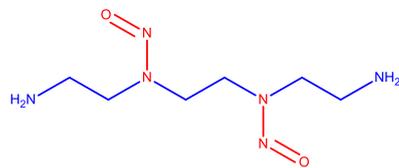
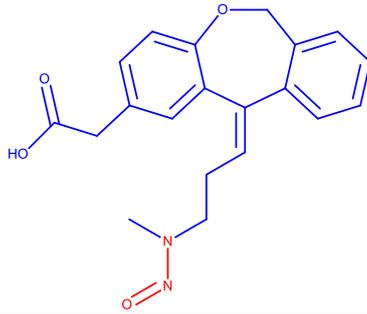
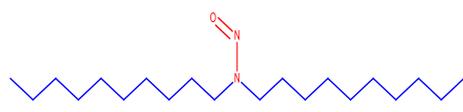
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257	<p><b>N-Nitroso Teragliptin</b> <b>Chemical Name:</b> 1-Nitrosopiperidin-3-amine <b>M.F:</b> C<sub>5</sub>H<sub>11</sub>N<sub>3</sub>O <b>MW:</b> 129.16 <b>CAS No:</b> NA</p>	Teragliptin	
258	<p><b>N-Nitroso Lumateperone Intermediate</b> <b>Chemical Name:</b> (6bR,10aS)-3-methyl-8-nitroso-2,3,6b,7,8,9,10,10a-octahydro-1H-pyrido[3',4':4,5]pyrrolo[1,2,3-de]quinoxaline <b>M.F:</b> C<sub>14</sub>H<sub>18</sub>N<sub>4</sub>O <b>MW:</b> 258.32 <b>CAS No:</b> NA</p>	Lumateperone Intermediate	
259	<p><b>N-Nitroso Metformin</b> <b>Chemical Name:</b> Nitroso n-methyl biguanide <b>M.F:</b> C<sub>3</sub>H<sub>8</sub>N<sub>6</sub>O <b>MW:</b> 144.14 <b>CAS No:</b> NA</p>	Metformin	
260	<p><b>N-Nitroso Fluoxetine Impurity A</b> <b>Chemical Name:</b> N-(3-Hydroxy-3-phenylpropyl)-N-methylnitrous amide <b>M.F:</b> C<sub>10</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 194.2 <b>CAS No:</b> 2659259-65-9</p>	Fluoxetine	
261	<p><b>N-Nitroso Vortioxetine</b> <b>Chemical Name:</b> 1-(2-((2,4-Dimethylphenyl)thio)phenyl)-4-nitrosopiperazine <b>M.F:</b> C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>OS <b>MW:</b> 327.44 <b>CAS No:</b> NA</p>	Vortioxetine	
262	<p><b>N-Nitroso Apalutamide Amine Impurity</b> <b>Chemical Name:</b> 4-((1-cyanocyclobutyl)(nitroso)amino)-2-fluoro-N-methylbenzamide <b>M.F:</b> C<sub>13</sub>H<sub>13</sub>FN<sub>4</sub>O<sub>2</sub> <b>MW:</b> 276.27 <b>CAS No:</b> NA</p>	Apalutamide	



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263	<p><b>N-Nitroso Tofacitinib Intermediate</b> <b>Chemical Name:</b> N-methyl-N-((3R,4R)-4-methyl-1-nitrosopiperidin-3-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine <b>M.F:</b> C<sub>13</sub>H<sub>18</sub>N<sub>6</sub>O <b>MW:</b> 274.32 <b>CAS No:</b> NA</p>	Tofacitinib	
264	<p><b>N-Nitroso Lumefantrine Intermediate</b> <b>Chemical Name:</b> (Z)-N-butyl-N-(2-(2,7-dichloro-9-(4-chlorobenzylidene)-9H-fluoren-4-yl)-2-hydroxyethyl)nitrous amide <b>M.F:</b> C<sub>26</sub>H<sub>23</sub>Cl<sub>3</sub>N<sub>2</sub>O<sub>2</sub> <b>MW:</b> 501.83 <b>CAS No:</b> NA</p>	Lumefantrine	
265	<p><b>N-Nitroso Betaxalol</b> <b>Chemical Name:</b> N-(3-(4-(2-(cyclopropylmethoxy)ethyl)phenoxy)-2-hydroxypropyl)-N-isopropylnitrous amide <b>M.F:</b> C<sub>18</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub> <b>MW:</b> 336.43 <b>CAS No:</b> NA</p>	Betaxalol	
266	<p><b>N,N'-Dinitroso Trientine</b> <b>Chemical Name:</b> N,N'-(ethane-1,2-diyl)bis(N-(2-aminoethyl)nitrous amide) <b>M.F:</b> C<sub>6</sub>H<sub>16</sub>N<sub>6</sub>O<sub>2</sub> <b>MW:</b> 204.23 <b>CAS No:</b> NA</p>	Trientine	
267	<p><b>N-Nitroso Olaptadine</b> <b>Chemical Name:</b> (Z)-2-(11-(3-(methyl(nitroso)amino)propylidene)-6,11-dihydrodibenzo[b,e]oxepin-2-yl)acetic acid <b>M.F:</b> C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>4</sub> <b>MW:</b> 352.38 <b>CAS No:</b> NA</p>	Olaptadine	
268	<p><b>N-Nitroso Didecylamine</b> <b>Chemical Name:</b> N,N-Didecylnitrous amide <b>M.F:</b> C<sub>20</sub>H<sub>42</sub>N<sub>2</sub>O <b>MW:</b> 326.6 <b>CAS No:</b> 69112-95-4</p>	Didecylamine	

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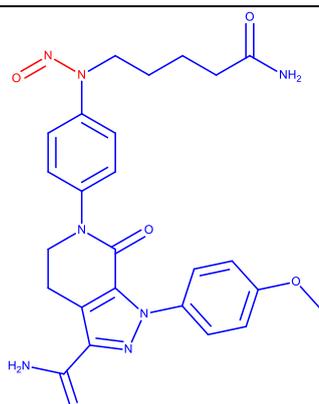
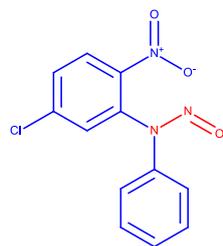
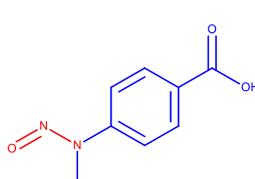
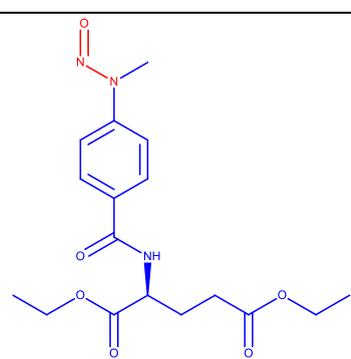
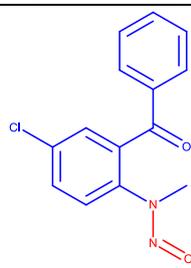
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269	<p><b>N-Nitroso Dicycleverine</b> <b>Chemical Name:</b> 2-(ethyl(nitroso)amino)ethyl [1,1'-bi(cyclohexane)]-1-carboxylate <b>M.F:</b> C<sub>17</sub>H<sub>30</sub>N<sub>2</sub>O<sub>3</sub>    <b>MW:</b> 310.43 <b>CAS No:</b> NA</p>	Dicycleverine	
270	<p><b>N-Nitroso Vonoprazon</b> <b>Chemical Name:</b> N-((5-(2-fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl)methyl)-N-methylnitrosous amide <b>M.F:</b> C<sub>17</sub>H<sub>15</sub>FN<sub>4</sub>O<sub>3</sub>S    <b>MW:</b> 374.39 <b>CAS No:</b> NA</p>	Vonoprazon	
271	<p><b>N-Nitroso Gatifloxacin</b> <b>Chemical Name:</b> 1-cyclopropyl-6-fluoro-8-methoxy-7-(3-methyl-4-nitrosopiperazin-1-yl)-4-oxo-1,4-dihydroquinoline-3-carboxylic acid <b>M.F:</b> C<sub>19</sub>H<sub>21</sub>FN<sub>4</sub>O<sub>5</sub>    <b>MW:</b> 404.39 <b>CAS No:</b> NA</p>	Gatifloxacin	
272	<p><b>N-Nitroso R-3-boc-amino piperidine</b> <b>Chemical Name:</b> N-Nitroso R-3-boc-amino piperidine <b>M.F:</b> C<sub>10</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>    <b>MW:</b> 229.28 <b>CAS No:</b> NA</p>	R-3-boc-amino piperidine	
273	<p><b>N-Nitroso 3-boc-amino piperidine</b> <b>Chemical Name:</b> N-Nitroso 3-boc-amino piperidine <b>M.F:</b> C<sub>10</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>    <b>MW:</b> 229.28 <b>CAS No:</b> NA</p>	3-boc-amino piperidine	
274	<p><b>N-Nitroso Apixaban Impurity 2</b> <b>Chemical Name:</b> 6-(4-((5-amino-5-oxopentyl)(nitroso)amino)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide <b>M.F:</b> C<sub>25</sub>H<sub>27</sub>N<sub>7</sub>O<sub>5</sub>    <b>MW:</b> 505.53 <b>CAS No:</b> NA</p>	Apixaban	



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275	<p><b>N-Nitroso Apixaban Impurity 2</b> <b>Chemical Name:</b> 6-(4-((5-amino-5-oxopentyl)(nitroso)amino)phenyl)-1-(4-methoxyphenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxamide <b>M.F:</b> C<sub>25</sub>H<sub>27</sub>N<sub>7</sub>O<sub>5</sub> <b>MW:</b> 505.53 <b>CAS No:</b> NA</p>	Apixaban	
276	<p><b>N-Nitroso Clobazam</b> <b>Chemical Name:</b> N-(5-chloro-2-nitrophenyl)-N-phenylnitrous amide <b>M.F:</b> C<sub>12</sub>H<sub>8</sub>ClN<sub>3</sub>O<sub>3</sub> <b>MW:</b> 277.66 <b>CAS No:</b> NA</p>	Clobazam	
277	<p><b>N-Nitroso 4-METHYL AMINE BENZOIC ACID</b> <b>Chemical Name:</b> N-Nitroso 4-METHYL AMINE BENZOIC ACID <b>M.F:</b> C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b> 180.16 <b>CAS No:</b> 5757-76-6</p>	4-METHYL AMINE BENZOIC ACID	
278	<p><b>N-Nitroso (S)-Diethyl2-H(methylamino)benzamido pentanedioate</b> <b>Chemical Name:</b> N-Nitroso (S)-Diethyl2-H(methylamino)benzamido pentanedioate <b>M.F:</b> C<sub>17</sub>H<sub>23</sub>N<sub>3</sub>O<sub>6</sub> <b>MW:</b> 365.38 <b>CAS No:</b> NA</p>	-	
279	<p><b>N-Nitroso Temazepam EP Impurity A</b> <b>Chemical Name:</b> N-(2-benzoyl-4-chlorophenyl)-N-methylnitrous amide <b>M.F:</b> C<sub>14</sub>H<sub>11</sub>ClN<sub>2</sub>O<sub>2</sub> <b>MW:</b> 274.70 <b>CAS No:</b> NA</p>	Temazepam	



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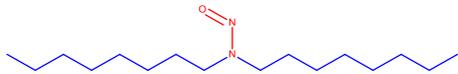
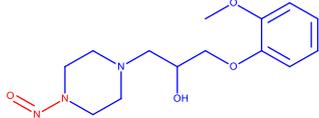
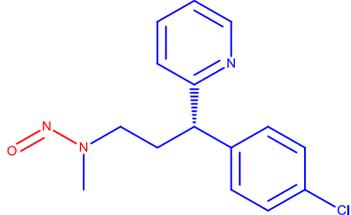
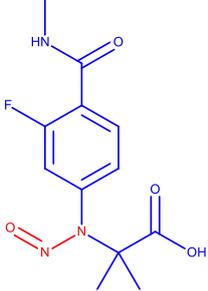
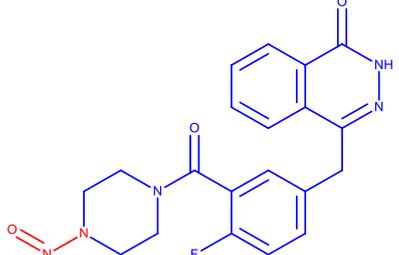
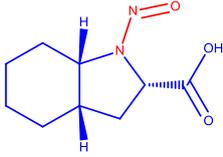
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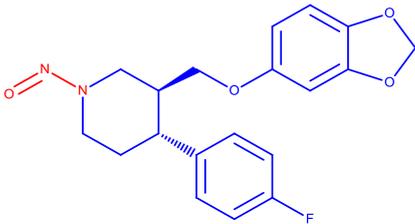
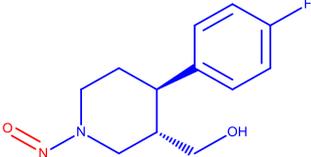
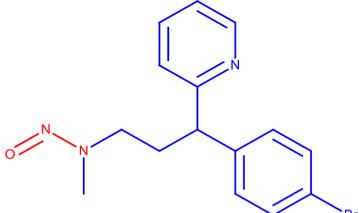
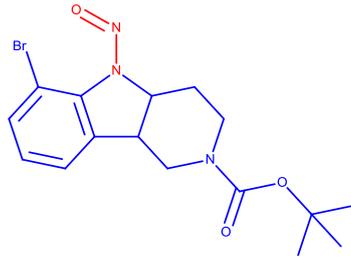
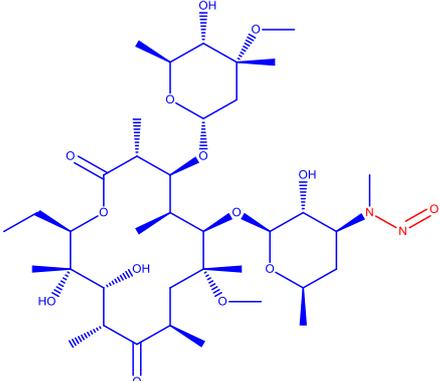
280	<p><b>N-Nitroso Vortioxetine Intermediate</b> <b>Chemical Name:</b> Tert-butyl 4-nitrosopiperazine-1-carboxylate <b>M.F:</b> C<sub>9</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub> <b>MW:</b>215.3 <b>CAS No:</b> NA</p>	Vortioxetine	
281	<p><b>N-Nitroso 4-piperazine-1-yl-phenol</b> <b>Chemical Name:</b> 4-(4-nitrosopiperazin-1-yl)phenol <b>M.F:</b> C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O<sub>2</sub> <b>MW:</b>207.23 <b>CAS No:</b> NA</p>	Terconazole	
282	<p><b>N-Nitroso Tolvaptan Intermediate</b> <b>Chemical Name:</b> 7-chloro-1-nitroso-3,4-dihydro-1H-benzo[b]azepin-5(2H)-one <b>M.F:</b> C<sub>10</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>2</sub> <b>MW:</b>224.64 <b>CAS No:</b> NA</p>	Tolvaptan	
283	<p><b>N-Nitroso Articaïne</b> <b>Chemical Name:</b> Methyl 4-methyl-3-(2-(nitroso(propyl)amino)propanamido)thiophene-2-carboxylate <b>M.F:</b> C<sub>13</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>S <b>MW:</b>313.37 <b>CAS No:</b> NA</p>	Articaïne	
284	<p><b>N-Nitroso Sarcosine (ethyl ester)</b> <b>Chemical Name:</b> Ethyl 2-[methyl(nitroso)amino]acetate <b>M.F:</b> C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub> <b>MW:</b>146.14 <b>CAS No:</b> NA</p>	Sarcosine(Ethyl Ester)	
285	<p><b>N-Nitroso Flecaïnide Intermediate</b> <b>Chemical Name:</b> (1-nitrosopiperidine-4-yl)Methanamine <b>M.F:</b> C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O <b>MW:</b>143.19 <b>CAS No:</b> NA</p>	Flecaïnide KSM	



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286	<p><b>N-Nitroso Dioctylamine</b> <b>Chemical Name:</b> N,N-dioctylnitrous amide <b>M.F:</b> C<sub>16</sub>H<sub>34</sub>N<sub>2</sub>O MW:270.45 <b>CAS No:</b> NA</p>	Dioctylamine	
287	<p><b>N-Nitroso Ranolazine Impurity C</b> <b>Chemical Name:</b> 1-(2-methoxyphenoxy)-3-(4-nitrosopiperazin-1-yl)propan-2-ol <b>M.F:</b> C<sub>14</sub>H<sub>21</sub>N<sub>3</sub>O<sub>4</sub> MW:295.33 <b>CAS No:</b> NA</p>	Ranolazine	
288	<p><b>N-Nitroso S-Chlorophenaramine</b> <b>Chemical Name:</b> (S)-N-(3-(4-Chlorophenyl)-3-(pyridin-2-yl)propyl)-N-methylnitrous amide <b>M.F:</b> C<sub>15</sub>H<sub>16</sub>ClN<sub>3</sub>O MW:289.76 <b>CAS No:</b> NA</p>	Chlorophenaramine	
289	<p><b>N-Nitroso Enzalutamide Intermemdiat</b> <b>Chemical Name:</b> 2-((3-fluoro-4-(methylcarbamoyl)phenyl)(nitroso)amino)-2-methylpropanoic acid <b>M.F:</b> C<sub>12</sub>H<sub>14</sub>FN<sub>3</sub>O<sub>4</sub> MW:283.26 <b>CAS No:</b> NA</p>	Enzalutamide Intermemdiat	
290	<p><b>N-Nitroso Olaparib Intermediate</b> <b>Chemical Name:</b> 4-(4-Fluoro-3-(4-nitrosopiperazine-1-carbonyl)benzyl)phthalazin-1(2H)-one <b>M.F:</b> C<sub>20</sub>H<sub>18</sub>FN<sub>5</sub>O<sub>3</sub> MW: 395.4 <b>CAS No:</b> 2742659-74-9</p>	Olaparib Intermediate	
291	<p><b>N-Nitroso Perindopril Intermediate</b> <b>Chemical Name:</b> (2S,3aS,7aS)-1-nitrosooctahydro-1H-indole-2-carboxylic acid <b>M.F:</b> C<sub>9</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub> MW: 198.22 <b>CAS No:</b> NA</p>	Perindopril Intermediate	

292	<p><b>N-Nitroso-N-methyl amino propane</b> <b>Chemical Name:</b> N-(3-(dimethylamino)propyl)-N-methylnitrous amide <b>M.F:</b> C<sub>6</sub>H<sub>15</sub>N<sub>3</sub>O <b>MW:</b> 145.20 <b>CAS No:</b> NA</p>	-	
293	<p><b>N-Nitroso Paroxetine impurity</b> <b>Chemical Name:</b> (3S,4R)-3-((benzo[d][1,3]dioxol-5-yl)oxy)methyl)-4-(4-fluorophenyl)-1-nitrosopiperidine <b>M.F:</b> C<sub>19</sub>H<sub>19</sub>FN<sub>2</sub>O<sub>4</sub> <b>MW:</b> 358.4 <b>CAS No:</b> 2361294-43-9</p>	Paroxetine	
294	<p><b>N-Nitroso Paroxetine EP Impurity I</b> <b>Chemical Name:</b> ((3S,4R)-4-(4-fluorophenyl)-1-nitrosopiperidin-3-yl)methanol <b>M.F:</b> C<sub>12</sub>H<sub>15</sub>FN<sub>2</sub>O<sub>2</sub> <b>MW:</b> 238.26 <b>CAS No:</b> NA</p>	Paroxetine	
295	<p><b>N-Nitroso Brompheniramine</b> <b>Chemical Name:</b> N-(3-(4-bromophenyl)-3-(pyridin-2-yl)propyl)-N-methylnitrous amide <b>M.F:</b> C<sub>15</sub>H<sub>16</sub>BrN<sub>3</sub>O <b>MW:</b> 334.21 <b>CAS No:</b> NA</p>	Brompheniramine	
296	<p><b>N-Nitroso Lumatoperon</b> <b>Chemical Name:</b> tert-butyl 6-bromo-5-nitroso-3,4,4a,5-tetrahydro-1H-pyrido[4,3-b]indole-2(9bH)-carboxylate <b>M.F:</b> C<sub>16</sub>H<sub>20</sub>BrN<sub>3</sub>O<sub>3</sub> <b>MW:</b> 382.25 <b>CAS No:</b> NA</p>	Lumatoperon	
297	<p><b>N-Nitroso-Desmethyl Clarithromycin</b> <b>Chemical Name:</b> N-((2S,3R,4S,6R)-2-(((3R,4S,5S,6R,7R,9R,11R,12R,13S,14R)-14-Ethyl-12,13-dihydroxy-4-(((2R,4R,5S,6S)-5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2H-pyran-2-yl)oxy)-7-methoxy-3,5,7,9,11,13-hexamethyl-2,10-dioxooxacyclotetradecan-6-yl)oxy)-3-hydroxy-6-methyltetrahydro-2H-pyran-4-yl)-N-methylnitrous Amide <b>M.F:</b> C<sub>37</sub>H<sub>66</sub>N<sub>2</sub>O<sub>14</sub> <b>MW:</b> 762.94 <b>CAS No:</b> 81103-11-9</p>	Clarithromycin	



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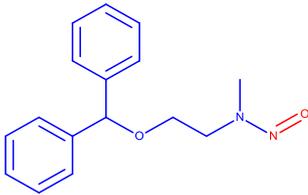
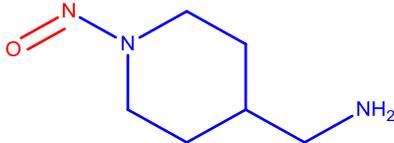
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298	<p><b>N-Nitroso Drotavarine</b> <b>Chemical Name:</b> (Z)-1-(3,4-diethoxybenzylidene)-6,7-diethoxy-2-nitroso-1,2,3,4-tetrahydroisoquinoline <b>M.F:</b> C<sub>24</sub>H<sub>30</sub>N<sub>2</sub>O<sub>5</sub>    <b>MW:</b> 426.51 <b>CAS No:</b> NA</p>	Drotavarine	
299	<p><b>N-Nitroso Respiridone Difluorobenzoyl Impurity</b> <b>Chemical Name:</b> (2,4-difluorophenyl)(1-nitrosopiperidin-4-yl)methanone <b>M.F:</b> C<sub>12</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>    <b>MW:</b> 254.23 <b>CAS No:</b> NA</p>	Respiridone	
300	<p><b>N-Nitroso Methotrexate EP Impurity L</b> <b>Chemical Name:</b> (S)-2-(4-(methyl(nitroso)amino)benzamido)pentanedioic acid <b>M.F:</b> C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>6</sub>    <b>MW:</b> 309.27 <b>CAS No:</b> NA</p>	Methotrexate	
301	<p><b>N-Nitroso Labetolol</b> <b>Chemical Name:</b> 2-hydroxy-5-(1-hydroxy-2-(nitroso(4-phenylbutan-2-yl)amino)ethyl)benzamide <b>M.F:</b> C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>4</sub>    <b>MW:</b> 357.40 <b>CAS No:</b> NA</p>	Labetolol	
302	<p><b>N-Nitroso Tizanidine</b> <b>Chemical Name:</b> N-(5-chlorobenzo[c][1,2,5]thiadiazol-4-yl)-N-(4,5-dihydro-1H-imidazol-2-yl)nitrous amide <b>M.F:</b> C<sub>9</sub>H<sub>7</sub>ClN<sub>6</sub>OS    <b>MW:</b> 282.71 <b>CAS No:</b> NA</p>	Tizanidine	
303	<p><b>N-Nitroso Ketoconazole EP Impurity D</b> <b>Chemical Name:</b> 1-(4-((2-((1H-imidazol-1-yl)methyl)-2-(2,4-dichlorophenyl)-1,3-dioxolan-4-yl)methoxy)phenyl)-4-nitrosopiperazine <b>M.F:</b> C<sub>24</sub>H<sub>25</sub>Cl<sub>2</sub>N<sub>5</sub>O<sub>4</sub>    <b>MW:</b> 518.39 <b>CAS No:</b> NA</p>	Ketoconazole	



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304	<b>N-Nitroso Diphenhydramine</b> <b>Chemical Name:</b> N-(2-(Benzhydryloxy)ethyl)-N-methylnitrous amide <b>M.F:</b> C <sub>16</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub> <b>MW:</b> 270.33 <b>CAS No:</b> NA	Diphenhydramine	
305	<b>N-Nitroso 4-Aminomethyl Piperidine</b> <b>Chemical Name:</b> (1-nitrosopiperidin-4-yl)methanamine <b>M.F:</b> C <sub>6</sub> H <sub>13</sub> N <sub>3</sub> O <b>MW:</b> 143.19 <b>CAS No:</b> NA	Flecanide KSM	

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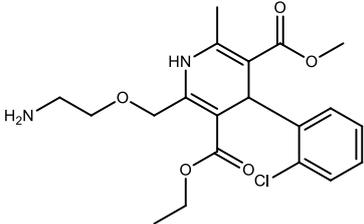
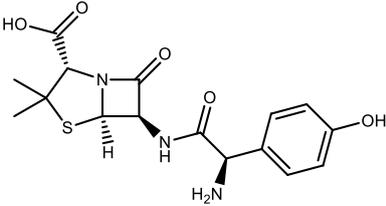
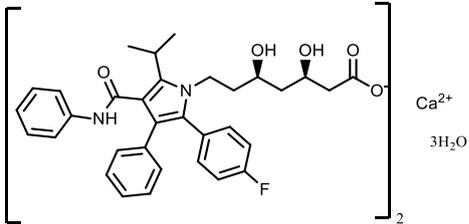
## JUSTIFICATION REPORT

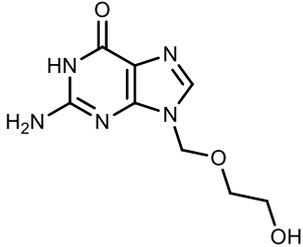
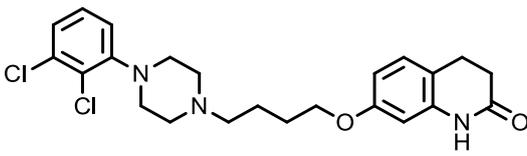
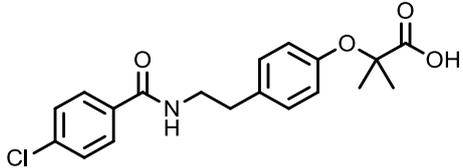
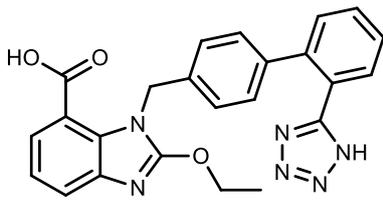
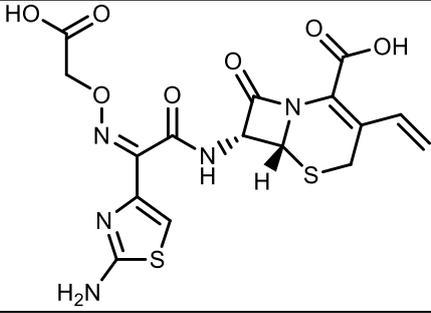
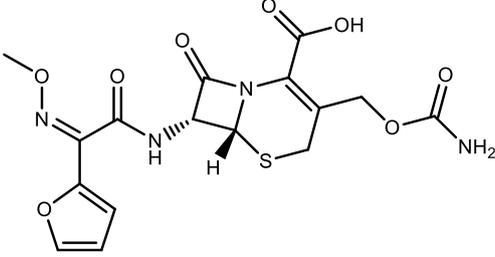
Nowadays it is mandatory to check the feasibility of Formation of Nitrosamine in any drug product

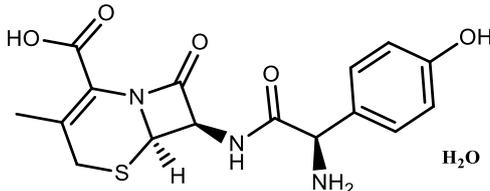
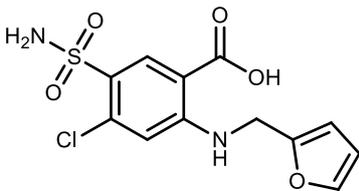
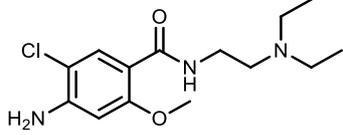
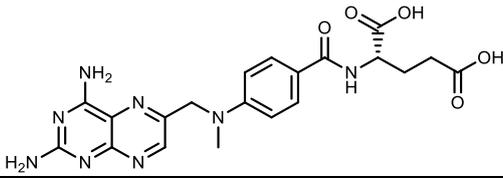
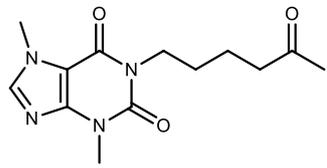
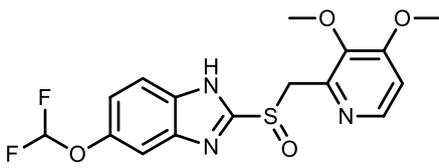
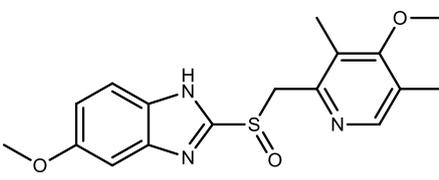
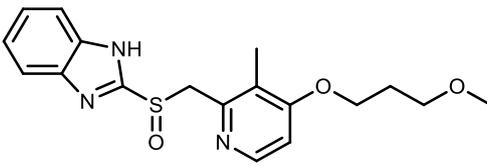
In many cases, **Nitrosamine formation is not possible**, therefore we are providing the justification reports by checking the synthesis feasibility of the compound

**Justification report covers the below points and can be submitted to regulatory agency's**

- Experimental data will be provided along with the analytical data
- Fundamental of Chemistry about feasibility of the formation
- Fundamental of Chemistry about the Stability
- Literature references will be shared if available
- Mechanistic aspect of product formation

Sr. No.	API Details	Structure
1	<p><b>API Name: Amlodipine</b>  <b>Chemical Name:</b> 3-ethyl 5-methyl 2-((2-aminoethoxy)methyl)-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate  <b>MF:</b> C<sub>20</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>5</sub>    <b>MW:</b> 408.88  <b>CAS No:</b> 88150-42-9</p>	
2	<p><b>API Name: Amoxicillin</b>  <b>Chemical Name:</b> (2S,5R,6R)-6-[[[(2R)-2-Amino-2-(4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid  <b>MF:</b> C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>5</sub>S    <b>MW:</b> 365.4  <b>CAS No:</b> 26787-78-0</p>	
3	<p><b>API Name: Atorvastatin</b>  <b>Chemical Name:</b> Calcium bis[(3R,5R)-7-[2-(4-fluorophenyl)-3-phenyl-4-(phenylcarbamoyl)-5-(propan-2-yl)-1H-pyrrol-1-yl]-3,5-dihydroxyheptanoate] Trihydrate  <b>MF:</b> 2(C<sub>33</sub>H<sub>34</sub>FN<sub>2</sub>O<sub>5</sub>)Ca<sup>2+</sup> 3(H<sub>2</sub>O)  <b>MW:</b> 2(557.63) + (40.08) + 3(18.02)  <b>CAS No:</b> 344423-98-9</p>	

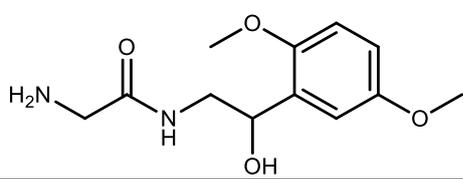
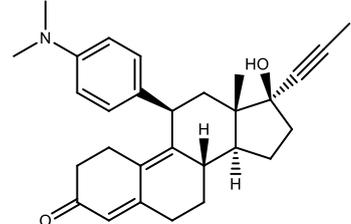
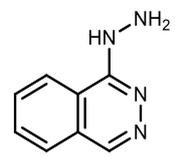
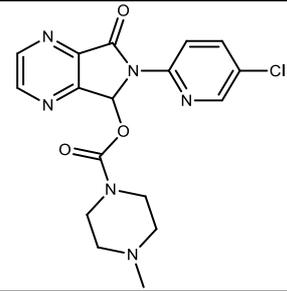
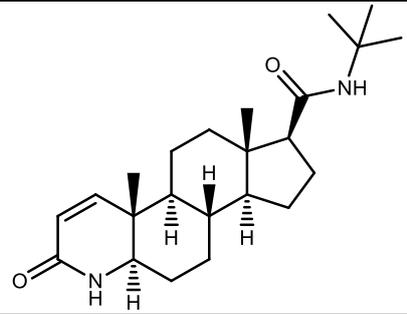
4	<p><b>API Name: Acyclovir</b>  <b>Chemical Name:</b> 2-Amino-9-[(2-hydroxyethoxy)methyl]-1,9-dihydro-6H-purin-6-one  <b>MF:</b> C<sub>8</sub>H<sub>11</sub>N<sub>5</sub>O<sub>3</sub>    <b>MW:</b> 225.2  <b>CAS No:</b>59277-89-3</p>	
5	<p><b>API Name: Aripiprazole</b>  <b>Chemical Name:</b> 7-(4-(4-(2,3-Dichlorophenyl)piperazin-1-yl)butoxy)-3,4-dihydroquinolin-2(1H)-one  <b>MF:</b> C<sub>23</sub>H<sub>27</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>    <b>MW:</b> 448.4  <b>CAS No:</b> 129722-12-9</p>	
6	<p><b>API Name: Bezafibrate</b>  <b>Chemical Name:</b> 2-[4-[2-[(4-Chlorobenzoyl)amino]ethyl]phenoxy]-2-methylpropanoic acid  <b>MF:</b> C<sub>19</sub>H<sub>20</sub>ClNO<sub>4</sub>    <b>MW:</b> 361.8  <b>CAS No:</b>41859-67-0</p>	
7	<p><b>API Name: Candesartran</b>  <b>Chemical Name:</b> 2-Ethoxy-3-[[4-[2-(1H-tetrazol-5-yl)phenyl]phenyl]methyl]-3H-benzimidazole-4-carboxylic acid  <b>MF:</b> C<sub>24</sub>H<sub>20</sub>N<sub>6</sub>O<sub>3</sub>    <b>MW:</b> 440.5  <b>CAS No:</b>139481-59-7</p>	
8	<p><b>API Name: Cefexime</b>  <b>Chemical Name:</b> (6R,7R)-7-[[[(Z)-2-(2-Aminothiazol-4-yl)-2-[(carboxymethoxy)imino]acetyl]amino]-3-ethenyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid  <b>MF:</b> C<sub>16</sub>H<sub>15</sub>N<sub>5</sub>O<sub>7</sub>S<sub>2</sub>    <b>MW:</b> 453.4  <b>CAS No:</b>79350-37-1</p>	
9	<p><b>API Name: Cefuroxime</b>  <b>Chemical Name:</b> (6R,7R)-3-((carbamoyloxy)methyl)-7-((Z)-2-(furan-2-yl)-2-(methoxyimino)acetamido)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid  <b>MF:</b> C<sub>16</sub>H<sub>16</sub>N<sub>4</sub>O<sub>8</sub>S    <b>MW:</b> 424.4  <b>CAS No:</b> 55268-75-2</p>	

10	<p><b>API Name: Cefadroxil</b>  <b>Chemical Name:</b> (6R,7R)-7-[[[(2R)-2-Amino-2-(4-hydroxyphenyl)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monohydrate  <b>MF:</b> C<sub>16</sub>H<sub>17</sub>N<sub>3</sub>O<sub>5</sub>S:H<sub>2</sub>O <b>MW:</b> 363.4 : 18.0  <b>CAS No:</b>66592-87-8</p>	
11	<p><b>API Name: Furosemide</b>  <b>Chemical Name:</b> 4-Chloro-2-((furan-2-ylmethyl)amino)-5-sulfamoylbenzoic acid  <b>MF:</b> C<sub>12</sub>H<sub>11</sub>ClN<sub>2</sub>O<sub>5</sub>S <b>MW:</b> 330.7  <b>CAS No:</b>54-31-9</p>	
12	<p><b>API Name: Metoclopramide</b>  <b>Chemical Name:</b> 4-Amino-5-chloro-N-(2-(diethylamino)ethyl)-2-methoxybenzamide  <b>MF:</b> C<sub>14</sub>H<sub>22</sub>ClN<sub>3</sub>O<sub>2</sub> <b>MW:</b> 299.8  <b>CAS No:</b> 364-62-5</p>	
13	<p><b>API Name: Methotrexate</b>  <b>Chemical Name:</b> (4-(((2,4-Diaminopteridin-6-yl)methyl)(methyl)amino)benzoyl)-L-glutamic acid  <b>MF:</b> C<sub>20</sub>H<sub>22</sub>N<sub>8</sub>O<sub>5</sub> <b>MW:</b> 454.4  <b>CAS No:</b> 59-05-2</p>	
14	<p><b>API Name: Pentoxifylline</b>  <b>Chemical Name:</b> 3,7-dimethyl-1-(5-oxohexyl)-3,7-dihydro-1H-purine-2,6-dione  <b>MF:</b> C<sub>13</sub>H<sub>18</sub>N<sub>4</sub>O<sub>3</sub> <b>MW:</b> 278.3  <b>CAS No:</b> 6493-05-6</p>	
15	<p><b>API Name: Pantoprazole</b>  <b>Chemical Name:</b> 5-(Difluoromethoxy)-2-(((3,4-dimethoxypyridin-2-yl)methyl)sulfinyl)-1H-benzo[d]imidazole  <b>MF:</b> C<sub>16</sub>H<sub>15</sub>F<sub>2</sub>N<sub>3</sub>O<sub>4</sub>S <b>MW:</b> 383.4  <b>CAS No:</b> 102625-70-7</p>	
16	<p><b>API Name: Omeprazole</b>  <b>Chemical Name:</b> 5-Methoxy-2-(((4-methoxy-3,5-dimethylpyridin-2-yl)methyl)sulfinyl)-1H-benzo[d]imidazole  <b>MF:</b> C<sub>17</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>S <b>MW:</b> 345.4  <b>CAS No:</b> 73590-58-6</p>	
17	<p><b>API Name: Rabeprezole</b>  <b>Chemical Name:</b> 2-(((4-(3-Methoxypropoxy)-3-methylpyridin-2-yl)methyl)sulfinyl)-1H-benzo[d]imidazole  <b>MF:</b> C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>S <b>MW:</b> 359.4  <b>CAS No:</b> 117976-89-3</p>	

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18	<p><b>API Name: Midodrine</b>  <b>Chemical Name:</b> 2-Amino-N-(2-(2,5-dimethoxyphenyl)-2-hydroxyethyl)acetamide  <b>MF:</b> C<sub>12</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>    <b>MW:</b> 254.3  <b>CAS No:</b> 42794-76-3</p>	
19	<p><b>API Name: Mefipristone</b>  <b>Chemical Name:</b> (8S,11R,13S,14S,17S)-11-(4-(Dimethylamino)phenyl)-17-hydroxy-13-methyl-17-(prop-1-yn-1-yl)-1,2,6,7,8,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-3-one  <b>MF:</b> C<sub>29</sub>H<sub>35</sub>NO<sub>2</sub>    <b>MW:</b> 429.6  <b>CAS No:</b> 84371-65-3</p>	
20	<p><b>API Name: Hydralazine</b>  <b>Chemical Name:</b> 1-Hydrazinophthalazine  <b>MF:</b> C<sub>8</sub>H<sub>8</sub>N<sub>4</sub>    <b>MW:</b> 160.2  <b>CAS No:</b> 86-54-4</p>	
21	<p><b>API Name: Zopiclone</b>  <b>Chemical Name:</b> 4-Methyl-1-piperazine-carboxylic Acid 6-(5-chloro-2-pyridinyl)-6,7-dihydro-7-oxo-5H-pyrrolo[3,4-b]pyrazin-5-yl Ester  <b>MF:</b> C<sub>17</sub>H<sub>17</sub>ClN<sub>6</sub>O<sub>3</sub>    <b>MW:</b> 388.81  <b>CAS No:</b> 43200-80-2</p>	
22	<p><b>API Name: Finasteride</b>  <b>Chemical Name:</b> (5a,17b)-N-(1,1-Dimethylethyl)-3-oxo-4-aza-androst-1-ene-17-carboxamide  <b>MF:</b> C<sub>23</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>    <b>MW:</b> 372.5  <b>CAS No:</b> 98319-26-7</p>	



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## AZIDO IMPURITIES

The Azido Impurity – also known as **azidomethyl-biphenyl-tetrazole, or AZBT** – is not part of the nitrosamine family. But nitrosamines and AZBT can both occur as by-products during the synthesis of sartan active pharmaceutical ingredients (APIs) with tetrazole rings.

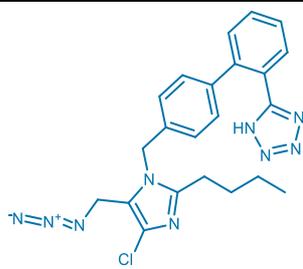
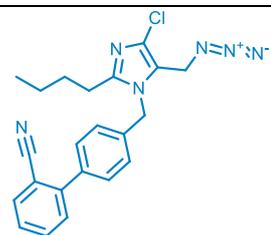
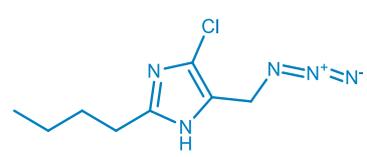
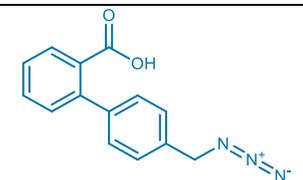
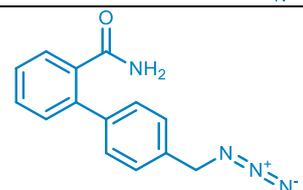
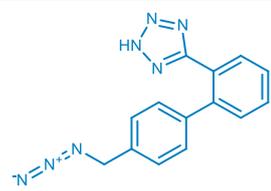
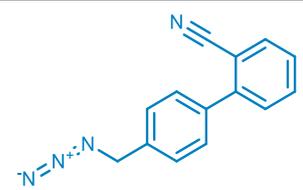
Both impurities are also classed as mutagens – or chemical substances that can cause a change in the DNA of a cell.

The parallels between azido impurities and nitrosamines in sartans do not end there, however.

In November 2019, the US Food and Drug Administration (FDA) warned the producers of valsartan APIs about “several current good manufacturing practice deviations”

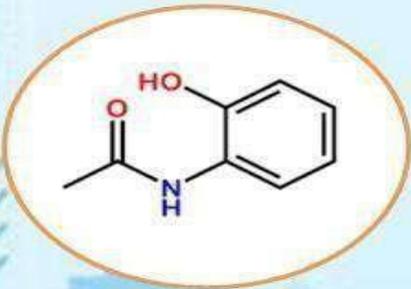
In April 2021, the European Directorate for the Quality of Medicines & HealthCare (EDQM) reported that it had received information about the possible presence of potentially mutagenic azido impurities in certain sartan active substances.

These recent investigations recently resulted in the identification of azido impurity that has so far only been detected in losartan potassium: 5-[4'-[(5-(azidomethyl)-2-butyl-4-chloro-1H-imidazol-1-yl)methyl]-[1,1'-biphenyl]2-yl]-1H-tetrazole (**CAS 727718-93-6**) (“**losartan azido impurity**”). This impurity has tested positive in a bacterial mutagenicity (Ames) test.

SR.NO.	AZIDO IMPURITY	PAREN TDRUG	STRUCTURE
1	<b>Losartan Azide Impurity Chemical name:</b> 5-(4'-((5-(azidomethyl)-2-butyl-4-chloro-1H-imidazol-1-yl)methyl)-[1,1'-biphenyl]-2-yl)-1H-tetrazole <b>MF:</b> C <sub>22</sub> H <sub>22</sub> ClN <sub>9</sub> <b>MW:</b> 447.9 <b>CAS No:</b> 727718-93-6	Valsartan	
2	<b>Losartan Impurity Chemical name:</b> 4'-((5-(azidomethyl)-2-butyl-4-chloro-1H-imidazol-1-yl)methyl)-[1,1'-biphenyl]-2-carbonitrile <b>MF:</b> C <sub>22</sub> H <sub>21</sub> ClN <sub>6</sub> <b>MW:</b> 404.90 <b>CAS No:</b> NA	Valsartan	
3	<b>Losartan Impurity 12 Chemical name:</b> 5-(Azidomethyl)-2-butyl-4-chloro-1H-imidazole <b>MF:</b> C <sub>8</sub> H <sub>12</sub> ClN <sub>5</sub> <b>MW:</b> 213.67 <b>CAS No:</b> 2353190-33-5	Valsartan	
4	<b>Br OTBN azide acid Chemical name:</b> 4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxylic acid <b>MF:</b> C <sub>14</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub> <b>MW:</b> 253.26 <b>CAS No:</b> NA	Valsartan	
5	<b>Br OTBN azide amide Chemical name:</b> 4'-(azidomethyl)-[1,1'-biphenyl]-2-carboxamide <b>MF:</b> C <sub>14</sub> H <sub>12</sub> N <sub>4</sub> O <b>MW:</b> 252.27 <b>CAS No:</b> NA	Valsartan	
6	<b>Irbesartan Impurity 15 Chemical name:</b> 5-[4'-(Azidomethyl)[1,1'-biphenyl]-2-yl]-2H-tetrazole <b>MF:</b> C <sub>14</sub> H <sub>11</sub> N <sub>7</sub> <b>MW:</b> 277.28 <b>CAS No:</b> 152708-24-2	Valsartan	
7	<b>Irbesartan Impurity 14 Chemical name:</b> 4'-(azidomethyl)-[1,1'-biphenyl]-2 carbonitrile <b>MF:</b> C <sub>14</sub> H <sub>10</sub> N <sub>4</sub> <b>MW:</b> 234.25 <b>CAS No:</b> 133690-91-2	Valsartan	



Certification & Accreditation  
ISO 9001-2015 & 17034-2016



**Working Standards**



**Nitrosamines**



**Impurity  
Reference Standards**



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ISO 17034:2016  
General Requirements for the Competence of  
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