

Drug Checking, Mapping and Reporting (DCMARS) Data Dictionary

Substance: 1P-LSD

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE), psychedelic*

Information: *Derivative and functional analogue of LSD, designer drug*

To learn more:

- [1-Propionyl-lysergic acid diethylamide | C₂₃H₂₉N₃O₂ | CID 119025985 - PubChem](#)
- [Pharmacokinetics and subjective effects of 1P-LSD in humans after oral and intravenous administration - Grumann - 2020 - Drug Testing and Analysis - Wiley Online Library](#)
- [Is 1P-LSD A Prodrug To LSD? - Detect-Kit](#)

Substance: 2-MeO

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Ketamine analogue, functions are a dissociative anesthetic*

To learn more:

- [Amino Ketone Rearrangements. VII.1 Synthesis of 2-Methylamino-2-Substituted Phenylcyclohexanones | The Journal of Organic Chemistry](#)
- [Methoxetamine - Alcohol and Drug Foundation](#)

Substance: 2x

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Also known as 2C-x series, produces psychedelic and stimulant effects*

To learn more:

- [Emerging Illicit Drug “2C”: A Case Report on Its Hallucinogenic and Stimulant Properties - PMC](#)

Substance: 3-MeO-PCP

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Dissociative hallucinogen related to PCP*

To learn more:

- [From PCP to MXE: a comprehensive review of the non-medical use of dissociative drugs - Morris - 2014 - Drug Testing and Analysis - Wiley Online Library](#)

Substance: 4-AcO-DiPT

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic tryptamine, designer drug*

To learn more:

- [4-Acetoxy-N,N-diisopropyltryptamine | C₁₈H₂₆N₂O₂ | CID 24801868 - PubChem](#)
- [A qualitative descriptive analysis of effects of psychedelic phenethylamines and tryptamines - PMC](#)

Substance: **4-AcO-DMT**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Often referred to as "synthetic mushrooms" - structurally similar to psilocin and psilocybin*

To learn more:

- [4-AcO-DMT Is the Most Accessible Drug on the Market Right Now | DoubleBlind Mag](#)
- [A qualitative descriptive analysis of effects of psychedelic phenethylamines and tryptamines - Palamar - 2020 - Human Psychopharmacology: Clinical and Experimental - Wiley Online Library](#)

Substance: **4-anilino-1-benzylpiperidine**

Category: Fentanyl

Information: Fentanyl impurity, metabolite

To learn more:

- [4-Anilino-1-benzylpiperidine \(4-ANBP, NSC 76613, CAS Number: 1155-56-2\) | Cayman Chemical](#)

Substance: **4-ANPP**

Category: *Fentanyl analogue*

Information: *Fentanyl precursor, commonly found as contaminant in drugs containing fentanyl, not an opioid itself but used to synthesize fentanyl and its analogues*

To learn more:

- [Drug Primer: 4-ANPP – Axis Forensic Toxicology](#)
- [Phenethyl-4-ANPP: A Marginally Active Byproduct Suggesting a Switch in Illicit Fentanyl Synthesis Routes | Office of Justice Programs](#)

Substance: **4-FA**

Category: *Stimulant*

Information: *Synthetic stimulant, effects similar to combination of amphetamines and MDMA*

To learn more:

- [4-Fluoroamphetamine \(4-FA\) intoxication results in exaggerated blood pressure effects compared to MDMA and amphetamine: A retrospective analysis - PMC](#)

Substance: **4-methylfentanyl**

Category: *Fentanyl analogue*

Information: *Potent synthetic opioid, fentanyl analogue*

To learn more:

- [https://www.cfsre.org/NPS \(novel psychoactive substance\)-discovery/monographs/ortho-methylfentanyl](https://www.cfsre.org/NPS%20(novel%20psychoactive%20substance)-discovery/monographs/ortho-methylfentanyl)

Substance: **4-MeO-PCP**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Dissociative anesthetic*

To learn more:

- [4-MeO-PCP and 3-MeO-PCMo, new dissociative drugs, produce rewarding and reinforcing effects through activation of mesolimbic dopamine pathway and alteration of accumbal CREB, deltaFosB, and BDNF levels - PubMed](#)

Substance: **5/6-APB**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic with similar effects to ecstasy and amphetamine combinations*

To learn more:

- [The psychoactive aminoalkylbenzofuran derivatives, 5-APB and 6-APB, mimic the effects of 3,4-methylenedioxyamphetamine \(MDA\) on monoamine transmission in male rats - PubMed](#)

Substance: **5-MeO-DiPT**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic tryptamine, designer drug*

To learn more:

- [5-METHOXY-N,N-DIISOPROPYLTRYPTAMINE \(Street Names: Foxy, or Foxy methoxy\)](#)

Substance: **5-MeO-DMT**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic compound found in various plants and venom of Colorado River toad*

To learn more:

- [The clinical pharmacology and potential therapeutic applications of 5-methoxy-N,N-dimethyltryptamine \(5-MeO-DMT\) - PMC](#)

Substance: **5-MeO-MiPT**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic and hallucinogenic tryptamine*

To learn more:

- [Pharmaco-toxicological effects of the novel tryptamine hallucinogen 5-MeO-MiPT on motor, sensorimotor, physiological, and cardiorespiratory parameters in mice—from a human poisoning case to the preclinical evidence - PMC](#)

Substance: **6-AM**

Category: *Heroin metabolite*

Information: *Opioid and heroin metabolite*

To learn more:

- [Understanding 6-AM & 6-MAM: The Metabolite of Heroin | National Test Systems](#)
- [6-AM \(Heroin Metabolite\) - SMA Medical Laboratory](#)

Substance: **Acetaminophen**

Category: *(OVER-THE-COUNTER)*

Information: *Over-the-Counter medication, pain reliever, fever reducer and excessive use can cause liver damage*

To learn more:

- [Acetaminophen \(oral route, rectal route\) - Side effects & dosage - Mayo Clinic](#)

Substance: **Acetylcodeine**

Category: *Prescription opioid*

Information: *Common active impurity in illicitly manufactured heroin, more potent than codeine*

To learn more:

- [Acetylcodeine, an impurity of illicitly manufactured heroin, elicits convulsions, antinociception, and locomotor stimulation in mice - ScienceDirect](#)
- [A Review of Analytical Methods for Codeine Determination - PMC](#)

Substance: **Acetylfentanyl**

Category: *Fentanyl analogue*

Information: *Opioid analgesic, fentanyl analogue and less potent than fentanyl*

To learn more:

- [Acetyl fentanyl \(N-\(1-phenethylpiperidin-4-yl\)-N-phenylacetamide\)](#)

Substance: **Acrylfentanyl**

Category: *Fentanyl analogue*

Information: *Opioid analgesic, fentanyl analogue and more potent than fentanyl*

To learn more:

- [Acrylofentanyl - Expert Committee on Drug Dependence Information Repository](#)

Substance: **Adderall**

Category: *Prescription stimulant*

Information: *CNS stimulant, commonly prescribed to treat ADHD*

To learn more:

- [Adderall: Uses, side effects, and dosage](#)

Substance: *ALD-52*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Psychedelic, similar effects to LSD*

To learn more:

- [Pharmacological and biotransformation studies of 1-acyl-substituted derivatives of d-lysergic acid diethylamide \(LSD\) - PMC](#)

Substance: *Alprazolam*

Category: *Benzodiazepine*

Information: *CNS depressant, generic formulation of Xanax*

To learn more:

- [Alprazolam \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Amoxicillin*

Category: *Antibiotic*

Information: *Penicillin antibiotic*

To learn more:

- [Amoxicillin \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Amphetamine*

Category: *Stimulant*

Information: *CNS stimulant that causes excitement, euphoria and increased alertness*

To learn more:

- <https://www.dea.gov/factsheets/amphetamines>

Substance: *AMT*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(Alpha methyltryptamine) - psychedelic stimulant and can produce serotonin toxicity*

To learn more:

- <https://www.justice.gov/archive/ndic/pubs9/9575/index.htm>

Substance: Aspirin

Category: (OVER-THE-COUNTER)

Information: *Nonsteroidal anti-inflammatory medication for minor pain, swelling - has cardiac applications as platelet aggregate inhibitor*

To learn more:

- [Aspirin: Uses, Warnings & Interactions](#)

Substance: Atenolol

Category: *Cardiac medication*

Information: *Treats chest pain and hypertension, beta-blocker to lower workload of the heart*

To learn more:

- [Atenolol \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: Ativan

Category: *Benzodiazepine*

Information: *CNS depressant, trade name for lorazepam and is used to treat anxiety disorders and seizure disorders*

To learn more:

- [Lorazepam \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: Atropine

Category: *Cardiac medication*

Information: *Treats bradycardia, reduces secretions and saliva and is an anticholinergic agent to treat organophosphate poisoning*

To learn more:

- [Atropine \(intramuscular route\) - Side effects & dosage - Mayo Clinic](#)

Substance: Baclofen

Category: *Muscle relaxant*

Information: *Treats muscle spasticity in conditions like multiple sclerosis and some spinal cord injuries*

To learn more:

- [Baclofen \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: Benzoyllecgonine

Category: *Cocaine metabolite*

Information: *Primary metabolite of cocaine, also found in medications to treat muscle spasms and in anesthetics*

To learn more:

- [Benzoyllecgonine | C16H19NO4 | CID 448223 - PubChem](#)
- [Metabolic Enzymes of Cocaine Metabolite Benzoyllecgonine - PMC](#)

Substance: *Beta-hydroxy-fentanyl*

Category: *Fentanyl analogue*

Information: *Fentanyl analogue, potency approximately 50x that of morphine - no human studies have been conducted*

To learn more:

- [beta-Hydroxyfentanyl | C22H28N2O2 | CID 62278 - PubChem](#)
- [Beta-hydroxyfentanyl - Expert Committee on Drug Dependence Information Repository](#)

Substance: *Bromazolam*

Category: *Benzodiazepine*

Information: *CNS depressant with similar effects to Xanax, not approved for human medical use*

To learn more:

- [Notes from the Field: Seizures, Hyperthermia, and Myocardial Injury in Three Young Adults Who Consumed Bromazolam Disguised as Alprazolam — Chicago, Illinois, February 2023 | MMWR](#)

Substance: *Benzylfentanyl*

Category: *Fentanyl analogue*

Information: *Fentanyl analogue, slightly more potent than codeine*

To learn more:

- [Benzylfentanyl as a Surrogate Template for Fentanyl-Selective Imprinted Polymers - PMC](#)

Substance: *Bromo dragonfly*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Amphetamine analogue and potent hallucinogen*

To learn more:

- [April 26, 2016: What is Bromo-DragonFly? | Tennessee Poison Center | FREE 24/7 Poison Help Hotline 800.222.1222](#)

Substance: *Brorphine*

Category: *Synthetic opioid*

Information: *Opioid analgesic first identified in the US drug supply in 2020*

To learn more:

- https://deادiversion.usdoj.gov/drug_chem_info/brorphine.pdf

Substance: *BTMPS*

Category: *Light stabilizer, cutting/bulking agent*

Information: *Bis (2,2,6,6-tetramethyl-4-piperidyl) sebacate - light stabilizing agent used to protect plastics from sunlight*

To learn more:

- [https://www.cfsre.org/NPS \(novel psychoactive substance\)-discovery/monographs/bis2266-tetramethyl-4-piperidyl-sebacate](https://www.cfsre.org/NPS%20(novel%20psychoactive%20substance)-discovery/monographs/bis2266-tetramethyl-4-piperidyl-sebacate)

Substance: *Buprenorphine*

Category: *MOUD*

Information: *Used to treat opioid use disorder, chronic and acute pain*

To learn more:

- [What is Buprenorphine? Side Effects, Treatment & Use | SAMHSA](#)

Substance: *Bupropion*

Category: *Psychiatric medication*

Information: *Generic name for Wellbutrin, used to treat depression and for smoking cessation*

To learn more:

- [Bupropion \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Butylone*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - synthetic cathinone*

Information: *Psychoactive substance in the amphetamine and cathinone families*

To learn more:

- [The synthetic cathinones, butylone and pentylone, are stimulants that act as dopamine transporter blockers but 5-HT transporter substrates - PMC](#)
- [N-Propyl-Butylone-072122-CFSRE-Chemistry-Report.pdf](#)

Substance: *BZP*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Benzylpiperazine - synthetic stimulant, effects similar to amphetamines*

To learn more:

- <https://www.justice.gov/archive/ndic/pubs11/11052/index.htm>
- [N-benzylpiperazine \(Street Names: BZP, A2, Legal E or Legal X\)](#)

Substance: *Caffeine*

Category: *Stimulant*

Information: *CNS stimulant, commonly found in sodas and energy drinks*

To learn more:

- <https://health.clevelandclinic.org/what-caffeine-does-to-your-body>

Substance: *Cannabinol*

Category: *Cannabinoid*

Information: *Mildly psychoactive phytocannabinoid*

To learn more:

- [Cannabinol: History, Syntheses, and Biological Profile of the Greatest “Minor” Cannabinoid - PMC](#)

Substance: *Carfentanil*

Category: *Fentanyl analogue*

Information: *Most often used as tranquilizer in veterinary medicine, extremely high potency*

To learn more:

- [Carfentanil: A Synthetic Opioid Unlike Any Other](#)

Substance: *Chlorpheniramine*

Category: *(OVER-THE-COUNTER)*

Information: *Antihistamine used to treat symptoms of mild allergies, blocks histamine receptors*

To learn more:

- [Chlorphenamine: drowsy \(sedating\) antihistamine - NHS](#)
- [\(+\)-Chlorpheniramine | C16H19ClN2 | CID 2725 - PubChem](#)

Substance: *Citalopram*

Category: *Psychiatric medication*

Information: *Antidepressant, SSRI*

To learn more:

- [Citalopram \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Cetirizine*

Category: *(OVER-THE-COUNTER)*

Information: *Antihistamine used to treat mild allergies, causes drowsiness and fatigue*

To learn more:

- [Cetirizine \(Zyrtec\): Treats Allergy Symptoms](#)

Substance: *Clomipramine*

Category: *Psychiatric medication*

Information: *Tricyclic antidepressant, primarily used to treatment OCD and other anxiety disorders*

To learn more:

- [Clomipramine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Clonazepam*

Category: *Benzodiazepine*

Information: *CNS depressant, used to treat seizure disorders and panic and anxiety disorders*

To learn more:

- [Clonazepam: Uses & Side Effects](#)

Substance: *Clonazepam*

Category: *Benzodiazepine*

Information: *Designer drug, produces enhanced sedation and amnesia*

To learn more:

- [Five Synthetic Benzodiazepine Drugs Deemed Imminent Hazard to Public Safety](#)
- https://deadiversion.usdoj.gov/drug_chem_info/benzo.pdf

Substance: *Clonitazene*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - opioid*

Information: *Opioid with higher potency, 3x potency of morphine*

To learn more:

- [Old Drugs and New Challenges: A Narrative Review of Nitazenes - PMC](#)
- [Drugs of Abuse: A DEA Resource Guide, 2024 Edition](#)

Substance: *Cocaine*

Category: *Stimulant*

Information: *CNS stimulant, causes euphoria and increased energy*

To learn more:

- [Cocaine | National Institute on Drug Abuse \(NIDA\)](#)

Substance: *Codeine*

Category: *Prescription opioid*

Information: *Opiate, morphine prodrug, used to treat mild to moderate pain*

To learn more:

- [Codeine \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Codeine Information | FDA](#)

Substance: *Cotinine*

Category: *Stimulant, alkaloid*

Information: *Metabolite of nicotine*

To learn more:

- [Cotinine: Pharmacologically Active Metabolite of Nicotine and Neural Mechanisms for Its Actions - PMC](#)

Substance: *Cyclorhine*

Category: *NPS*

Information: *Novel, synthetic opioid being sold as a designer drug, approximately 10 times more potent than fentanyl*

To learn more:

- [Public Alert N-Propionitrile Chlorphine 013026.pdf](#)

Substance: *Delta-8-THC*

Category: *Cannabinoid*

Information: *Psychoactive cannabinoid, isomer of delta-9-THC*

To learn more:

- [Delta-8 THC Use Highest Where Marijuana Is Illegal, Study Finds](#)
- [What Is Delta-8? What You Need To Know](#)

Substance: *Delta-9-THC*

Category: *Cannabinoid*

Information: *THC, cannabinoid found in cannabis*

To learn more:

- [Delta 8 vs. Delta 9 vs. Delta 10: Uses, Effects, and More](#)

Substance: *Delta-10-THC*

Category: *Cannabinoid*

Information: *Common impurity found in delta-8-THC*

To learn more:

- [Delta 8 vs. Delta 9 vs. Delta 10: Uses, Effects, and More](#)

Substance: *Diclofenac*

Category: Anti-inflammatory medication

Information: used to treat pain and inflammation associated with arthritis or migraines

To learn more:

- <https://www.mayoclinic.org/drugs-supplements/diclofenac-oral-route/description/drg-20069748>

Substance: *Dimethyl fluorofentanyl*

Category: *Fentanyl analogue*

Information: *Fentanyl analogue, synthetic opioid*

To learn more:

- [Fluorofentanyl_121720_CFSRE_Toxicology_Report.pdf](#)
- [Fentanyl analog structure-activity relationships demonstrate determinants of diverging potencies for antinociception and respiratory depression - PMC](#)
- [Toxicological Analysis of Fluorofentanyl Isomers in Postmortem Blood | Journal of Analytical Toxicology | Oxford Academic](#)

Substance: *Dextromethorphan*

Category: *Cough suppressant*

Information: *Cough suppressant, at high doses can act similarly to dissociatives like ketamine and nitrous oxide*

To learn more:

- [Dextromethorphan - StatPearls - NCBI Bookshelf](#)
- [Dextromethorphan Solution \(Robitussin\): Cough Suppressant](#)

Substance: *Diazepam*

Category: *Benzodiazepine*

Information: *CNS depressant, generic name for Valium – used as an anti-anxiety medication*

To learn more:

- [Diazepam \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Diazepam \(Valium\): Uses & Side Effects](#)

Substance: *Dibutylone*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - synthetic cathinone*

Information: *CNS stimulant, similar to compounds found in "bath salts"*

To learn more:

- [1-\(1,3-Benzodioxol-5-yl\)-2-\(dimethylamino\)-1-butanone | C13H17NO3 | CID 71308182 - PubChem](#)
- [Emerging-Threat-Report-2019-Quarter-2.pdf](#)

Substance: *Diclozepam*

Category: *Benzodiazepine*

Information: *CNS depressant, has not been tested in humans*

To learn more:

- [Characterization of the designer benzodiazepine diclozepam and preliminary data on its metabolism and pharmacokinetics - PubMed](#)
- <https://www.unodc.org/LSS/Substance/Details/7df7db58-5edd-4b29-bb0f-cfa4eb8df9f2>
- [BENZODIAZEPINES \(Street Names: Benzos, Downers, Nerve Pills, Tranks\)](#)

Substance: *Dilaudid*

Category: *Prescription opioid*

Information: *CNS depressant, hydromorphone is generic name - an opioid used to treat moderate to severe pain*

To learn more:

- [Hydromorphone \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- https://deaddiversion.usdoj.gov/drug_chem_info/hydromorphone.pdf

Substance: *Diphenhydramine*

Category: *Antihistamine*

Information: *Antihistamine and sedative, trade name is Benadryl*

To learn more:

- [Diphenhydramine Capsules or Tablets: Uses & Side Effects](#)

Substance: *Disulfiram*

Category: *Medication for Alcohol Use Disorder*

Information: *Blocks enzyme that is involved in breaking down alcohol*

To learn more:

- [Disulfiram \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *DMT*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Dimethyltryptamine - psychedelic compound that produces strong hallucinations, can occur naturally in Ayahuasca or produced synthetically*

To learn more:

- https://deادiversion.usdoj.gov/drug_chem_info/dmt.pdf

Substance: **DOB**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(2,5-Dimethoxy-4-bromoamphetamine) - potent and long-lasting psychedelic, considered a psychedelic amphetamine*

To learn more:

- <https://www.bindingdb.org/rwd/bind/chemsearch/marvin/MolStructure.jsp?monomerid=50005257>
- [2,5-Dimethoxy-4-bromoamphetamine | C11H16BrNO2 | CID 62065 - PubChem](#)

Substance: **DOC**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(2,5-dimethoxy-4-chloroamphetamine) - potent and long-lasting psychedelic, considered a psychedelic amphetamine*

To learn more:

- [The serotonin 5-HT2C receptor and the non-addictive nature of classic hallucinogens - PMC](#)
- https://journals.lww.com/behaviouralpharm/abstract/2024/10000/evaluation_of_potential_punishing_effects_of.2.aspx

Substance: **DOM (STP)**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(2,5-dimethoxy-4-methamphetamine) - psychedelic drug in the phenethylamine, amphetamine, and DOx families*

To learn more:

- [The origin of 2,5-dimethoxy-4-methylamphetamine \(DOM, STP\) - PubMed](#)

Substance: **DOx series**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Class of psychoactive amphetamines*

To learn more:

- [1-\(2,5-Dimethoxy-4-iodophenyl\)-2-aminopropane \(DOI\): From an Obscure to Pivotal Member of the DOX Family of Serotonergic Psychedelic Agents – A Review](#)

Substance: **Duloxetine**

Category: *Psychiatric medication*

Information: *Used to treat depression, nerve pain, fibromyalgia and generalized anxiety*

To learn more:

- [Duloxetine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Ecgonine methyl ester*

Category: *Cocaine metabolite*

Information: *Alkaloid found in coca leaves, also a cocaine metabolite*

To learn more:

- [Ecgonine methyl ester, \(N-methyl-d3\)- | C10H17NO3 | CID 10560042 - PubChem](#)
- [Ecgonine, methyl ester | C10H17NO3 | CID 239087 - PubChem](#)
- [Ecgonine Methyl Ester, A Major Metabolite of Cocaine | Journal of Analytical Toxicology | Oxford Academic](#)

Substance: *Ephedrine/pseudoephedrine*

Category: *Stimulant, decongestant*

Information: *CNS stimulant, acts as a bronchodilator and decongestant for colds and asthma*

To learn more:

- [Pseudoephedrine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Escitalopram*

Category: *Psychiatric medication*

Information: *Psychiatric medication used to treat depression and/or anxiety by increasing level of serotonin*

To learn more:

- [Escitalopram \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Esketamine*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *An isomer of ketamine that is used to treat depression in clinical settings, can also be used as anesthetic*

To learn more:

- [Esketamine for Treatment-Resistant Depression | Johns Hopkins Medicine](#)

Substance: *Ethylone*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - synthetic cathinone*

Information: *Recreational designer drug known as MDEA, more commonly referred to as "bath salts" - similar effects to MDMA and amphetamines (3,4-methylenedioxyethcathinone)*

To learn more:

- [3,4-Methylenedioxyethcathinone \(Ethylone\) \["Bath salt," bk-MDEA, MDEC\]](#)

Substance: *Etomidate*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - short acting anesthetic*

Information: *CNS depressant, short-acting anesthetic agent used for endotracheal intubation*

To learn more:

- [Etomidate - StatPearls - NCBI Bookshelf](#)

Substance: *Etonitazene*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - opioid*

Information: *Synthetic opioid with no approved clinical use, estimated to be 1,000x more potent than morphine in animal studies*

To learn more:

- [Etonitazene | C22H28N4O3 | CID 13493 - PubChem](#)
- https://www.cfsre.org/images/monographs/N-Pyrrolidino_Etonitazene_051321_ToxicologyAnalyticalReport.pdf

Substance: *Eutylone*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - synthetic cathinone*

Information: *(1,3-Benzodioxol-5-yl)-2-(ethylamino)butan-1-one - synthetic stimulant with similar psychoactive effects as MDMA*

To learn more:

- [1-\(1,3-Benzodioxol-5-yl\)-2-\(ethylamino\)butan-1-one \(Eutylone\)](#)

Substance: *Fentanyl*

Category: *Opioid*

Information: *Potent synthetic opioid, medical uses for pain management and is also made illicitly in clandestine laboratories*

To learn more:

- [Facts about Fentanyl](#)

Substance: *Flualprazolam*

Category: *Benzodiazepine*

Information: *CNS depressant and tranquilizer now emerging as a designer benzodiazepine*

To learn more:

- https://deaddiversion.usdoj.gov/drug_chem_info/flualp.pdf
- [Emerging Drug: Flualprazolam | NMS Labs](#)

Substance: *Flubromazepam*

Category: *Benzodiazepine*

Information: *CNS depressant, long-acting benzodiazepine not approved for human use and has cardiotoxic effects*

To learn more:

- [The designer benzodiazepine, flubromazepam, induces reward-enhancing and cardiotoxic effects in rodents - PMC](#)
- [Benzodiazepine Boom: Tracking Etizolam, Pyrazolam, and Flubromazepam from Pre-UK Psychoactive Act 2016 to Present Using Analytical and Social Listening Techniques - PMC](#)

Substance: *Fluorofentanyl*

Category: *Fentanyl analogue*

Information: *Synthetic opioid and fentanyl analogue, approximately 100x more potent than morphine*

To learn more:

- [Fluorofentanyl_121720_CFSRE_Toxicology_Report.pdf](#)
- <https://www.dea.gov/sites/default/files/2020-06/Synthetic%20Opioids-2020.pdf>

Substance: *Fluoxetine*

Category: *Psychiatric medication*

Information: *Medication used to treat depression and anxiety disorders by increasing serotonin levels*

To learn more:

- [Fluoxetine Capsules or Tablets \(PMDD\)](#)

Substance: *Fluvoxamine*

Category: *Psychiatric medication*

Information: *Medication used to treat anxiety disorders like OCD, can also be used to treat depression*

To learn more:

- [Fluvoxamine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Furanylfentanyl*

Category: *Fentanyl analogue*

Information: *Synthetic opioid and fentanyl analogue with no accepted medical uses, unpredictable toxicity*

To learn more:

- [The Genotoxicity of Acrylfentanyl, Ocfentanyl and Furanylfentanyl Raises the Concern of Long-Term Consequences - PMC](#)
- [Furanylfentanyl | C₂₄H₂₆N₂O₂ | CID 13653606 - PubChem](#)
- [A Review of Toxicological Profile of Fentanyl—A 2024 Update - PMC](#)

Substance: *Furosemide*

Category: *Cardiac medication*

Information: *Used to treat fluid retention and hypertension by increasing urination, commonly used to treat heart disease and some liver and kidney disorders*

To learn more:

- [Furosemide \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Gabapentin*

Category: *Anti-convulsant, can also treat nerve pain*

Information: *Can be used to treat certain seizure disorders, nerve pain and restless leg syndrome*

To learn more:

- [Gabapentin: Uses, Side Effects, Dosages, Interactions & More](#)

Substance: *GHB*

Category: *CNS depressant*

Information: *Gamma hydroxybutyrate - has some medical uses to treat narcolepsy under monitored conditions, used recreationally it causes euphoria, drowsiness and feelings of tranquility*

To learn more:

- [GHB - Gamma-Hydroxybutyric Acid](#)
- [Current Insights on the Impact of Gamma-Hydroxybutyrate \(GHB\) Abuse - PMC](#)

Substance: *Haloperidol*

Category: *Psychiatric medication*

Information: *Used to treat psychosis and conditions involving hallucinations like schizophrenia*

To learn more:

- [Haloperidol \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Heroin*

Category: *Opiate*

Information: *Processed from morphine which naturally occurs in some poppy plants, addictive opioid*

To learn more:

- [What is heroin and how is it used? | National Institute on Drug Abuse \(NIDA\)](#)
- <https://www.dea.gov/factsheets/heroin>

Substance: *Hydrocodone*

Category: *Prescription opioid*

Information: *Opioid analgesic used for patient with a need for long-term pain control*

To learn more:

- [Hydrocodone \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Oral Opioids \(Hydrocodone, Oxycodone, Hydromorphone, Morphine\) | Pain Management Education at UCSF](#)

Substance: *Hydroquinidine*

Category: *Cardiac medication, cutting/bulking agent*

Information: *Anti-malarial medication that is also used to treat certain cardiac arrhythmias, bulking agent common in opioids*

To learn more:

- [Hydroquinidine | C₂₀H₂₆N₂O₂ | CID 91503 - PubChem](#)

Substance: *Hydroxyzine*

Category: *Antihistamine, sedative*

Information: *Antihistamine that can treat allergic reactions, but can also be used to help with anxiety, sedation and nausea*

To learn more:

- [Hydroxyzine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Ibuprofen*

Category: *(OVER-THE-COUNTER)*

Information: *Pain reliever and fever reducer, treats minor pain associated with headaches, arthritis and muscle aches*

To learn more:

- [Ibuprofen \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Isotonitazene*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - opioid*

Information: *Potent synthetic opioid, structural homologue of etonitazene, slightly more potent than fentanyl*

To learn more:

- https://deadiversion.usdoj.gov/drug_chem_info/isotonitazene.pdf
- [Isotonitazene_112119_ToxicologyAnalyticalReport.pdf](#)

Substance: *Ketamine*

Category: *Hallucinogen, dissociative*

Information: *Dissociative anesthetic used for both medical and veterinary patient, can be used as experimental medication for treat-resistant depression and has recreational uses as a hallucinogen and dissociative*

To learn more:

- https://www.dea.gov/sites/default/files/2020-06/Ketamine-2020_1.pdf
- [What to Know About Ketamine | Johns Hopkins | Bloomberg School of Public Health](#)

Substance: *Lamotrigine*

Category: *Psychiatric medication*

Information: *Anti-seizure medication used to treat epilepsy, can also be used to treat mood disorders*

To learn more:

- [Lamotrigine: Uses & Side Effects](#)
- [Lamotrigine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Levamisole/tetramisole*

Category: *Used as cutting/bulking agent*

Information: *Used to treat parasitic infections in cattle, can be used to treat certain cancers, has amphetamine-like psychostimulating effects and is commonly mixed into cocaine for its potentiating effects*

To learn more:

- [Levamisole: A High Performance Cutting Agent - PMC](#)
- [Efficacy and safety of Levamisole treatment in clinical presentations of non-hospitalized patients with COVID-19: a double-blind, randomized, controlled trial - PMC](#)

Substance: *Levorphanol*

Category: *Prescription opioid*

Information: *Opioid analgesic used to treat moderate chronic pain, structurally similar to morphine*

To learn more:

- [Levorphanol \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Levorphanol: Revisiting an Underutilized Analgesic - PMC](#)

Substance: *Lidocaine*

Category: *Anesthetic*

Information: *Local anesthetic agent for surface, IM, or IV administration, can treat tachycardic arrhythmias and blocks nerve signals in the body*

To learn more:

- [Lidocaine \(topical application route\) - Side effects & dosage - Mayo Clinic](#)
- [Lidocaine - PubMed](#)

Substance: *LSD*

Category: *Psychedelic*

Information: *Lysergic acid diethylamide - hallucinogenic drug derived from ergot (fungus)*

To learn more:

- <https://www.dea.gov/factsheets/lsd>
- <https://www.unsw.edu.au/research/ndarc/resources/lsd-fact-sheet-2025>

Substance: *LSZ*

Category: *Analogue of LSD*

Information: *Lysergic acid 2,4-dimethylazetide - synthetic psychedelic similar to LSD*

To learn more:

- [Return of the lysergamides. Part II: Analytical and behavioural characterization of N6-allyl-6-norlysergic acid diethylamide \(AL-LAD\) and \(2'S,4'S\)-lysergic acid 2,4-dimethylazetidide \(LSZ\) - PMC](#)
- [Identification of LSD analogs, 1cP-AL-LAD, 1cP-MIPLA, 1V-LSD and LSZ in sheet products - PMC](#)

Substance: *Lysergamides*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Creates psychedelic effects (LSD and LSZ) that have greater number of receptors than other psychedelics creating a more potent effect*

To learn more:

- [Details for Lysergamides](#)
- [Return of the lysergamides. Part I: Analytical and behavioral characterization of 1-propionyl-d-lysergic acid diethylamide \(1P-LSD\) - PMC](#)

Substance: *Mannitol*

Category: *Cutting/bulking agent*

Information: *Used as a low-calorie sweetener, common cutting/bulking agent and can also be used to reduce intracranial pressure with brain injuries*

To learn more:

- [Mannitol: a review of its clinical uses](#)
- [Mannitol | C6H14O6 | CID 6251 - PubChem](#)

Substance: *m-CPP*

Category: *Amphetamine*

Information: *Meta-chlorophenylpiperazine - psychoactive stimulant drug that has been used in some psychiatric studies, but is now an illicitly used stimulant*

To learn more:

- [Metabolism of m-CPP, trazodone, nefazodone, and etoperidone: clinical and forensic aspects - PubMed](#)
- [1-\(3-Chlorophenyl\)piperazine | C10H13ClN2 | CID 1355 - PubChem](#)
- [\[Metachlorophenylpiperazine \(mCPP\): a new designer drug\] - PubMed](#)

Substance: *MDA*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(3,4-methylenedioxyamphetamine) - psychoactive drug with stimulant effects, chemically similar to MDMA*

To learn more:

- [MDMA \(Ecstasy/Molly\) | National Institute on Drug Abuse \(NIDA\)](#)
- [Effects of the Psychedelic Amphetamine MDA \(3,4-Methylenedioxyamphetamine\) in Healthy Volunteers - PubMed](#)

Substance: **MDAI**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(5,6-methylenedioxy-2-aminoindane) - related to MDMA with similar effects*

To learn more:

- [MDMA \(Ecstasy/Molly\) | National Institute on Drug Abuse \(NIDA\)](#)
- [Synthetic Aminoindanes: A Summary of Existing Knowledge - PMC](#)
- [MDAI \(5,6-methylenedioxy-2-aminoindane; 6,7-dihydro-5H-cyclopenta\[f\]\[1,3\]benzodioxol-6-amine; 'sparkle'; 'mindy'\) toxicity: a brief overview and update - PubMed](#)

Substance: **MDEA**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(3,4-methylenedioxy-N-ethylamphetamine) - empathogenic and psychoactive substances similar to MDMA, more sedating effects*

To learn more:

- [MDMA \(Ecstasy/Molly\) | National Institute on Drug Abuse \(NIDA\)](#)
- [The Neuropsychopharmacology and Toxicology of 3,4-methylenedioxy-N-ethyl-amphetamine \(MDEA\) - PMC](#)

Substance: **MDMA**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(3,4-methylenedioxymethamphetamine) - structurally similar to methamphetamine and mescaline*

To learn more:

- [MDMA \(Ecstasy/Molly\) | National Institute on Drug Abuse \(NIDA\)](#)

Substance: **Medetomidine**

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE), veterinary anesthetic*

Information: *Veterinary anesthetic with potent sedative effects, similar to xylazine but much more potent*

To learn more:

- [Responding to medetomidine: clinical and public health needs - PMC](#)
- hip.phila.gov/document/4421/PDPH-HAN-0441A-05-13-24.pdf/
- [Public_Alert_Medetomidine_052024.pdf](#)

Substance: **Melatonin**

Category: *(OVER-THE-COUNTER), sedative*

Information: *Naturally produced hormone that helps with sleep cycle, slight sedative effect to cause drowsiness*

To learn more:

- [Melatonin side effects: What are the risks? - Mayo Clinic](#)
- [Melatonin - StatPearls - NCBI Bookshelf](#)

Substance: *Meloxicam*

Category: *(OVER-THE-COUNTER), anti-inflammatory*

Information: *Anti-inflammatory medication commonly used to treat rheumatoid arthritis and osteoarthritis*

To learn more:

- [Meloxicam \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Methadone*

Category: *MOUD*

Information: *Treats Opioid Use Disorder, manages withdrawal symptoms, can be used for long-term management and pain - highly controlled substance*

To learn more:

- [What is Methadone? Side Effects, Treatment & Use | SAMHSA](#)
- [Methadone: Uses, Warnings & Side Effects](#)

Substance: *Methamphetamine*

Category: *Stimulant*

Information: *Synthetic stimulant that increases CNS activity, causes euphoria, energy and can cause paranoia due to sleep loss from extended use*

To learn more:

- [Methamphetamine | National Institute on Drug Abuse \(NIDA\)](#)
- <https://www.dea.gov/factsheets/methamphetamine>

Substance: *Methedrone*

Category: *Synthetic cathinone*

Information: *Recreational cathinone that causes energy and paranoia, designer stimulant sometimes also attributed to "bath salts"*

To learn more:

- [Methedrone | C₁₁H₁₅NO₂ | CID 216281 - PubChem](#)
- [4-Methylmethcathinone \(Mephedrone\): Neuropharmacological Effects of a Designer Stimulant of Abuse - PMC](#)

Substance: *Methylphenidate*

Category: *Stimulant*

Information: *CNS stimulant for treatment of ADHD and ADD - tradenames of Concerta and Ritalin*

To learn more:

- [Methylphenidate \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Methylfentanyl*

Category: Synthetic opioid

Information: Highly potent opioid that has been found in both powder and pill form

To learn more:

- [A New Fentanyl Derivative: ortho-Methylfentanyl – Axis Forensic Toxicology](#)
- [Mefentanyl - an overview | ScienceDirect Topics](#)
- [Monographs](#)

Substance: *Methyl-furanyl-fentanyl*

Category: Synthetic opioid

Information: Highly potent opioid

To learn more:

- [Ortho-methylfuranylfentanyl | C25H28N2O2 | CID 137700023 - PubChem](#)
- [m-Methyl-furanylfentanyl | C25H28N2O2 | CID 137700039 - PubChem](#)
- [In vitro and in vivo pharmaco-dynamic study of the novel fentanyl derivatives: Acrylfentanyl, Ocfentanyl and Furanylfentanyl - ScienceDirect](#)

Substance: *Metonitazene*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - opioid*

Information: *Potent synthetic opioid that is commonly found in combination with fentanyl and benzodiazepines, has psychoactive effects*

To learn more:

- [Metonitazene: New Synthetic Opioid on the Block | NMS Labs](#)
- [Metonitazene_073020_NMSLabs_Report.pdf](#)

Substance: *Mirtazapine*

Category: *Psychiatric medication*

Information: *Antidepressant medication used to increase levels of serotonin*

To learn more:

- [Mirtazapine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Morphine*

Category: *Prescription opioid*

Information: *Opiate naturally found in opium from certain poppy plants, used as analgesic medication*

To learn more:

- [Morphine \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Morphine - PubMed](#)

Substance: *MXE*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Methoxetamine - dissociative hallucinogenic, designer drug and has some dissociative effects similar to ketamine*

To learn more:

- [Methoxetamine – a novel recreational drug with potent hallucinogenic properties - ScienceDirect](#)
- [Methoxetamine affects brain processing involved in emotional response in rats - PMC](#)

Substance: *MXP*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *Methoxphenidine - dissociative drug with effects similar to PCP and ketamine*

To learn more:

- [METHOXPHENIDINE, A DESIGNER DRUG OR A POSSIBLE ROUTE FOR RESEARCH TO DEPRESSION TREATMENT? - PMC](#)
- [Intoxications by the dissociative new psychoactive substances diphenidine and methoxphenidine - PubMed](#)

N-pyrrolidino protonitazene

Information: see “Protonitazene”

Substance: *Naltrexone*

Category: *MOUD*

Information: *Prescribed to treat Opioid Use Disorder, blocks the effects of opioids, especially the associated cravings*

To learn more:

- [Naltrexone \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Naproxen*

Category: *(OVER-THE-COUNTER)*

Information: *Anti-inflammatory medication used to treat arthritis, mild to moderate pain*

To learn more:

- [Naproxen \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *NBOMe*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *A class of synthetic hallucinogenic drugs similar to LSD and mescaline*

To learn more:

- [NBOMes–Highly Potent and Toxic Alternatives of LSD - PMC](#)

- https://www.deadiversion.usdoj.gov/drug_chem_info/nbome.pdf

Substance: *NENK*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE)*

Information: *(N-ethylnorketamine) - a dissociative anesthetic with hallucinogenic properties*

To learn more:

- [N-Ethylketamine has anesthetic and analgesic effects with abuse liability - PubMed](#)
- [The novel methoxetamine analogs N-ethylketamine hydrochloride \(NENK\), 2-MeO-N-ethylketamine hydrochloride \(2-MeO-NEK\), and 4-MeO-N-ethylketamine hydrochloride \(4-MeO-NEK\) elicit rapid antidepressant effects via activation of AMPA and 5-HT2 receptors - PubMed](#)

Substance: *N-ethylpentylone*

Category: *Synthetic cathinone*

Information: *Cathinone and stimulant with similarities to MDMA and mephedrone*

To learn more:

- https://www.deadiversion.usdoj.gov/drug_chem_info/n-ethylpentylone.pdf

Substance: *Nicotine*

Category: *Stimulant*

Information: *CNS stimulant, naturally occurring alkaloid found in tobacco plants*

To learn more:

- [Nicotine dependence - Symptoms and causes - Mayo Clinic](#)
- [Nicotine | C10H14N2 | CID 89594 - PubChem](#)

Substance: *Norcocaine*

Category: *Cocaine metabolite*

Information: *Minor cocaine metabolite, pharmacologically active metabolite*

To learn more:

- [Norcocaine and cocaethylene distribution patterns in hair samples from light, moderate, and heavy cocaine users - PMC](#)
- [\(-\)-Norcocaine - PubMed](#)
- [Norcocaine: a pharmacologically active metabolite of cocaine found in brain - PubMed](#)

Substance: *Norfentanyl*

Category: *Fentanyl analogue*

Information: *Fentanyl analogue, but can also be used to synthesize fentanyl*

To learn more:

- <https://www.samhsa.gov/sites/default/files/meeting/documents/fentanyl-analogs-06112019.pdf>
- [Fentanyl Absorption, Distribution, Metabolism, and Excretion \(ADME\): Narrative Review and Clinical Significance Related to Illicitly-Manufactured Fentanyl - PMC](#)
- [DEA proposes to control three precursor chemicals used to illicitly manufacture deadly fentanyl](#)

Substance: *Norketamine*

Category: *Ketamine metabolite*

Information: *Active metabolite of ketamine, it has a less potent anesthetic effect*

To learn more:

- [Norketamine, the Main Metabolite of Ketamine, Induces Mitochondria-Dependent and ER Stress-Triggered Apoptotic Death in Urothelial Cells via a Ca²⁺-Regulated ERK1/2-Activating Pathway - PMC](#)
- [Pharmacokinetics of ketamine and its major metabolites norketamine, hydroxynorketamine, and dehydronorketamine: a model-based analysis - PubMed](#)
- [Ketamine Pharmacology: An Update \(Pharmacodynamics and Molecular Aspects, Recent Findings\) - PMC](#)

Substance: *Noroxycodone*

Category: *Oxycodone metabolite*

Information: *Metabolite of oxycodone, minimal analgesic properties*

To learn more:

- [Determination of Oxycodone, Noroxycodone and Oxymorphone by High-Performance Liquid Chromatography–Electrospray Ionization-Tandem Mass Spectrometry in Human Matrices: In vivo and In vitro Applications - PMC](#)
- [Noroxycodone | C17H19NO4 | CID 5489120 - PubChem](#)

Substance: *Norquetiapine*

Category: *Quetiapine metabolite*

Information: *Active metabolite of quetiapine (Seroquel), which is an anti-psychotic medication – see “Quetiapine” entry for further information*

To learn more:

- [Quetiapine and its metabolite norquetiapine: translation from in vitro pharmacology to in vivo efficacy in rodent models - PMC](#)

Substance: *Norquinidine*

Category: *Quinidine metabolite*

Information: *Metabolite of quinidine, which is an anti-malarial agent and anti-arrhythmic medication*

To learn more:

- [Quinidine - StatPearls - NCBI Bookshelf](#)

Substance: *Noscapine*

Category: *Heroin metabolite*

Information: *Alkaloid that has been isolated from the poppy plant, does not have any analgesic properties*

To learn more:

- [Noscapine, an Emerging Medication for Different Diseases: A Mechanistic Review - PMC](#)

Substance: *Orphenadrine*

Category: *Muscle relaxant*

Information: *A muscle relaxant that can be used to treat muscle pain associated with Parkinson's disease*

To learn more:

- [Orphenadrine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Oxycodone*

Category: *Prescription opioid*

Information: *Marketed as OxyContin or Roxicodone, opioid analgesic for severe pain*

To learn more:

- [Oxycodone \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Oxymorphone*

Category: *Prescription opioid*

Information: *Highly potent opioid analgesic medication used as a last-line pain management option*

To learn more:

- [Oxymorphone \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Papaverine*

Category: *Prescription opioid*

Information: *Vasodilator that relaxes smooth muscles, derived from opium poppy*

To learn more:

- [Papaverine \(injection route\) - Side effects & dosage - Mayo Clinic](#)
- [Papaverine: A Miraculous Alkaloid from Opium and Its Multimedicinal Application - PMC](#)

Substance: *Phenacetin*

Category: *Cutting/bulking agent*

Information: *Pain reliever and fever reducer, but has been removed from use due to carcinogenic properties and is a common adulterant in illicit drugs*

To learn more:

- https://www.cfsre.org/images/content/reports/public_alerts/2021.04.20.Public-Alert_Phenacetin_Final.pdf
- [Phenacetin and Analgesic Mixtures Containing Phenacetin - 15th Report on Carcinogens - NCBI Bookshelf](#)

Substance: *Phencyclidine*

Category: *Dissociative anesthetic*

Information: *PCP - can cause hallucinations, psychosis, dissociation, euphoria and in some cases aggression*

To learn more:

- [Phencyclidine Toxicity - StatPearls - NCBI Bookshelf](#)
- <https://www.justice.gov/archive/ndic/pubs4/4440/index.htm>

Substance: *Phenethylamine*

Category: *Stimulant*

Information: *CNS stimulant similar to some amphetamines that boosts mood and energy levels, increases effects of neurotransmitters for serotonin and dopamine*

To learn more:

- <https://www.unodc.org/LSS/SubstanceGroup/Details/275dd468-75a3-4609-9e96-cc5a2f0da467>
- [2-Phenethylamines in Medicinal Chemistry: A Review - PMC](#)
- [Phenethylamine - an overview | ScienceDirect Topics](#)

Substance: *Phenobarbital*

Category: *Barbiturate*

Information: *Barbiturate that can be used to treat seizures, insomnia, anxiety and is being replaced by benzodiazepines in many clinical settings*

To learn more:

- [Phenobarbital - StatPearls - NCBI Bookshelf](#)
- [Phenobarbital: Uses, Interactions & Side Effects](#)

Substance: *Phentermine*

Category: *Amphetamine*

Information: *CNS stimulant used to assist with weight loss by reducing appetite*

To learn more:

- [Phentermine \(oral route\) - Side effects & dosage - Mayo Clinic](#)
- [Phentermine for weight loss - Mayo Clinic](#)

Substance: *Phenylephrine*

Category: *(OVER-THE-COUNTER)*

Information: *Nasal decongestant available (OVER-THE-COUNTER) via nasal spray*

To learn more:

- [Phenylephrine \(nasal route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *PMA/PMMA*

Category: *Stimulant*

Information: (Paramethoxymethamphetamine) - synthetic stimulant and hallucinogenic often mistaken for MDMA

To learn more:

- <https://ndarc.med.unsw.edu.au/sites/default/files/ndarc/resources/NDA073%20Fact%20Sheet%20PMA.pdf>
- <https://www.unodc.org/LSS/SubstanceGroup/Details/275dd468-75a3-4609-9e96-cc5a2f0da467>

Substance: *Pregabalin*

Category: *Anti-convulsant*

Information: *Used to treat epilepsy and nerve pain associated with fibromyalgia*

To learn more:

- [Pregabalin \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Promethazine*

Category: *Antihistamine, anti-emetic*

Information: *Antihistamine with sedative effects, can also prevent nausea and vomiting - illicit use as a sedative*

To learn more:

- [Promethazine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Protonitazene*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - opioid*

Information: *Potent synthetic opioid that emerged in 2019, approximately 3x more potent than fentanyl*

To learn more:

- [A Comprehensive Narrative Review of Protonitazene: Pharmacological Characteristics, Detection Techniques, and Toxicology - PMC](#)
- [https://www.cfsre.org/images/content/reports/public_alerts/2021.12.10.Public-Alert_Protonitazene_NPS \(NOVEL PSYCHOACTIVE SUBSTANCE\)-Discovery_121021.pdf](https://www.cfsre.org/images/content/reports/public_alerts/2021.12.10.Public-Alert_Protonitazene_NPS_(NOVEL_PSYCHOACTIVE_SUBSTANCE)-Discovery_121021.pdf)

Substance: *Psilocin*

Category: *Hallucinogen, dissociative*

Information: *(4-hydroxy-N, N-dimethyltryptamine / 4-OH-DMT) - psychedelic that produces serotonin, present in most psychedelic mushrooms and has recreational and spiritual uses*

To learn more:

- [Psilocin, the Psychoactive Metabolite of Psilocybin, Modulates Select Neuroimmune Functions of Microglial Cells in a 5-HT₂ Receptor-Dependent Manner - PMC](#)

Substance: *Psilocybin*

Category: *Hallucinogen, dissociative*

Information: *(4-PO-DMT) - naturally occurring substance in certain mushroom species, causes hallucinogenic effects*

To learn more:

- [Psilocybin \(Magic Mushrooms\) | National Institute on Drug Abuse \(NIDA\)](#)

Substance: *Pyrazolam*

Category: *Benzodiazepine*

Information: *CNS depressant, benzodiazepine derivative now sold as designer drug and is similar to alprazolam*

To learn more:

- [‘New/Designer Benzodiazepines’: An Analysis of the Literature and Psychonauts’ Trip Reports - PMC](#)

Substance: *Quetiapine*

Category: *Psychiatric medication*

Information: *Antipsychotic medication used to treat schizophrenia, bipolar disorder and major depressive disorder*

To learn more:

- [Quetiapine \(Seroquel\): Uses & Side Effects](#)

Substance: *Quinidine*

Category: *Cardiac medication*

Information: *Treats malaria and can also be used as anti-arrhythmic agent, commonly found in heroin as a hypotensive agent*

To learn more:

- [Quinidine - StatPearls - NCBI Bookshelf](#)
- [Cardiac Complications of Unwitting Co-injection of Quinine/Quinidine with Heroin in an Intravenous Drug User - PMC](#)

Substance: *Quinine*

Category: *Anti-malarial agent*

Information: *Malaria medication, can also treat minor fevers and is a mild analgesic*

To learn more:

- [Quinine, an old anti-malarial drug in a modern world: role in the treatment of malaria - PMC](#)
- [Quinine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Risperdal*

Category: *Psychiatric medication*

Information: *Anti-psychotic medication used to treat schizophrenia, bipolar disorder and some behavioral aggression associated with autism*

To learn more:

- [Risperidone \(Risperdal\): Uses, Interactions & Side Effects](#)

Substance: *Rohypnol*

Category: *Benzodiazepine*

Information: *Used as premedication for surgery because of its sedative and amnesic properties, commonly known as "date rape drug" when used recreationally*

To learn more:

- <https://www.dea.gov/factsheets/rohypnol>
- [Rohypnol Fact Sheet | Office of Justice Programs](#)

Substance: *Sertraline*

Category: *Psychiatric medication*

Information: *Psychiatric medication used for OCD, depression, anxiety and PTSD*

To learn more:

- [Sertraline \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Sildenafil*

Category: *Cardiac medication, erectile dysfunction medication*

Information: *Can treat both erectile dysfunction and pulmonary arterial hypertension*

To learn more:

- [Sildenafil \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Tizanidine*

Category: *Muscle relaxant*

Information: *Muscle relaxant to treat muscle spasticity associated with multiple sclerosis*

To learn more:

- [Tizanidine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *TMA*

Category: *Hallucinogen, dissociative*

Information: *(3,4,5 - trimethoxyamphetamine) - psychedelic with hallucinogenic effects, similar to mescaline*

To learn more:

- [Comparison of the behavioral effects of mescaline analogs using the head twitch response in mice - PMC](#)
- [MDA, MDMA, and other "mescaline-like" substances in the US military's search for a truth drug \(1940s to 1960s\) - PubMed](#)

Substance: *Tramadol*

Category: *Prescription opioid*

Information: *Less potent opioid analgesic medication, commonly combined with acetaminophen*

To learn more:

- [Tramadol - PubMed](#)
- [Tramadol Information | FDA](#)

Substance: *Trazodone*

Category: *Psychiatric medication*

Information: *Antidepressant used for major depressive disorder, can also be used as a sleep aid*

To learn more:

- [Trazodone \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Tropacocaine*

Category: *Cocaine metabolite*

Information: *Cocaine-related alkaloid that is a common contaminant in illicitly manufactured cocaine*

To learn more:

- <https://webbook.nist.gov/cgi/inchi?ID=C537268&Mask=200>
- [Effects of benzoyltropine and tropacocaine on several cholinergic processes in the rat brain - PubMed](#)

Substance: *U-47700*

Category: *Synthetic opioid*

Information: *Opioid analgesic known as "pink heroin" - common in illicitly pressed pills*

To learn more:

- [U-47700: An Emerging Threat - PMC](#)
- https://www.cfsre.org/images/monographs/34-Difluoro-U-47700_031120_Report.pdf

Substance: *Venlafaxine*

Category: *Psychiatric medication*

Information: *Antidepressant that can also treat social anxiety and panic disorders*

To learn more:

- [Venlafaxine \(oral route\) - Side effects & dosage - Mayo Clinic](#)

Substance: *Vicodin*

Category: *Prescription opioid*

Information: *Opioid medication used to treat moderate to severe pain, it is a mixture of hydrocodone and acetaminophen*

To learn more:

- [Hydrocodone & Acetaminophen Capsules or Tablets: Uses & Side Effects](#)

Substance: *Xylazine*

Category: *NPS (NOVEL PSYCHOACTIVE SUBSTANCE) - veterinary tranquilizer*

Information: *Sedative and tranquilizer in veterinary medicine, recently found in illicitly manufactured fentanyl and has wound concerns*

To learn more:

- [What You Should Know About Xylazine | Overdose Prevention | CDC](#)
- [Xylazine | National Institute on Drug Abuse \(NIDA\)](#)