



**List of
Precursors and chemicals
Frequently used in the illicit manufacture of narcotic
drugs and psychotropic substances under
International Control**

In accordance with the
United Nations Convention against Illicit Traffic
in Narcotic Drugs and Psychotropic Substances, 1988

Prepared by the
INTERNATIONAL NARCOTICS CONTROL BOARD

Vienna International Centre
P.O. Box 500
1400 Vienna, Austria

Introduction

This list has been prepared by the International Narcotics Control Board (INCB) as a tool to be used for the identification of substances scheduled in Tables I and II of the United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances, 1988 (1988 Convention).

All those involved with the implementation of the provisions of article 12 of the 1988 Convention, including regulatory, administrative and law enforcement authorities, will find the list helpful. For example, it will be required to complete the Board's Form D, "Annual information on substances frequently used in the illicit manufacture of narcotic drugs and psychotropic substances", as required under the provisions of article 12, paragraph 12. It will also be required by regulatory and administrative authorities to check the names of chemicals associated with, *inter alia*, applications for authorizations for export or import. Law enforcement authorities will require the information, *inter alia*, to check documentation accompanying consignments of chemicals and to further identify chemicals seized at illicit laboratories.

The list is comparable to the lists of narcotic drugs and psychotropic substances under international control, and the alphabetical listings of other names and trade names of narcotic drugs and psychotropic substances, which are published by the Board as the "Yellow List" and the "Green List", respectively.

Part One gives a list of those substances scheduled in Tables I and II of the 1988 Convention. The list is divided into two sections, the first listing those substances included in Table I, and the second listing those substances in Table II. English, French and Spanish names as used in the respective versions of the Tables of the 1988 Convention are given, as well as Harmonized System (HS) codes and Chemical Abstracts Service (CAS) registry numbers, to facilitate rapid identification of all scheduled substances. The full Chemical Abstracts Index name of each substance is given also for reference purposes.

Part Two lists in alphabetical order the chemical names, synonyms and trade names, etc., of the substances included in Part One. Although not explicitly stated in the 1988 Convention, it is understood that the name of each of those substances, as given in the Tables of the Convention, covers also all isomeric forms of the substance. Consequently, it should be noted that where a specific isomer is listed in Part Two, for example *l*-ephedrine as a synonym for ephedrine, this should not be understood to mean that only the *l*-form of ephedrine is controlled.

Part Three provides a table of conversion factors needed to convert quantities of scheduled substances in their salt form into quantities of pure anhydrous base.

Regular updating of the information provided in this list, particularly that relating to the chemical names, synonyms and trade names, etc., of scheduled substances, will be necessary to ensure the effectiveness of controls. Governments are kindly requested to provide the Board with any additions and/or amendments to the information provided to ensure that this database is maintained up to date.

For additional synonyms, trade names, and individual monographs of the scheduled substances, Governments are referred to the "Multilingual Dictionary of Precursors and Chemicals Frequently Used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances under International Control", produced by the Laboratory and Scientific Section of UNODC, which can be accessed at:

http://www.unodc.org/documents/scientific/MLD_Precursors_2015_Ebook.pdf

English, French and Spanish names as used in the respective versions of Tables I and II of the 1988 Convention are given, as well as Harmonized System (HS) codes and Chemical Abstracts Service (CAS) registry numbers¹, to facilitate rapid identification of all scheduled substances. Chemical Abstracts Index names are given in parentheses.

SUBSTANCES INCLUDED IN TABLE I

Acetic anhydride Anhydride acétique Anhídrido acético	(acetic oxide) HS code: 2915.24 CAS number: 108-24-7
N-Acetylanthranilic acid Acide N-acétylanthranilique Acido N-acetilantranílico	(benzoic acid, 2-(acetylamino)-) HS code: 2924.23 CAS number: 89-52-1
Ephedrine Ephédrine Efedrina	([R-(R*,S*)]-α-[1-(methylamino)ethyl]-benzenemethanol) HS code: 2939.41 [#] CAS number: 299-42-3
Ergometrine Ergométrine Ergometrina	(ergoline-8-carboxamide,9,10-didehydro-N-(2-hydroxy-1-methylethyl)-6-methyl-[8β(S)]) HS code: 2939.61 CAS number: 60-79-7
Ergotamine Ergotamine Ergotamina	(ergotaman-3',6',18'-trione, 12'-hydroxy-2'-methyl-5'-(phenylmethyl)-,(5α)) HS code: 2939.62 CAS number: 113-15-5
Isosafrole Isosafrole Isosafrol	(1,3-benzodioxole,5-(1-propenyl)-) HS code: 2932.91 CAS number: 120-58-1
Lysergic acid Acide lysergique Acido lisérgico	((8β)-9,10-didehydro-6-methylergoline-8-carboxylic acid) HS code: 2939.63 CAS number: 82-58-6
3,4-Methylenedioxyphenyl-2-propanone Méthylènedioxyphényl-3,4 propanone-2 3,4-Metilendioxifenil-2-propanona	(2-propanone,1-[3,4(methylenedioxy)phenyl]-) HS code: 2932.92 CAS number: 4676-39-5
Norephedrine Norephédrine Norefedrina	(R*,S*)-α-(1-aminoethyl)benzenemethanol HS code: 2939.44 [#] CAS number: 14838-15-4
Phenylacetic acid Acide phénylacétique Acido fenilacético	(benzeneacetic acid) HS code: 2916.34 CAS number: 103-82-2
1-Phenyl-2-propanone Phényl-1 propanone-2 1-Fenil-2-propanona	(1-phenyl-2-propanone) HS code: 2914.31 CAS number: 103-79-7
α-Phenylacetoacetonitrile (APAAN)² α -Phénylacétoacétonitrile α -Fenilacetoacetonitrilo	(3-oxo-2-phenylbutanenitrile) HS code: 2926.40 CAS number: 4468-48-8
Piperonal Pipéronal Piperonal	(1,3-benzodioxole-5-carboxaldehyde) HS code: 2932.93 CAS number: 120-57-0
Potassium permanganate Permanganate de potassium Permanganato potásico	(permanganic acid (HMnO₄), potassium salt) HS code: 2841.61 CAS number: 7722-64-7
Pseudoephedrine Pseudoéphédrine Seudoefedrina	([S-(R*,R*)]-α-[1-(methylamino)ethyl]-benzenemethanol) HS code: 2939.42 [#] CAS number: 90-82-4

¹ The CAS numbers for the salts of the substances listed are different from those given. Therefore, a substance with a CAS number that does not appear in the list may nevertheless be a scheduled substance.

² APAAN was included in Table 1 of the 1988 Convention effective 6 October 2014.

Safrole

Safrole
Safrol

(1,3-benzodioxole,5-(2-propenyl)-)
HS code: 2932.94 CAS number: 94-59-7

The salts of the substances listed in this Table whenever the existence of such salts is possible.

Since January 2017, the World Customs Organization's *Harmonized System (HS) Nomenclature* includes new code numbers for pharmaceutical preparations containing ephedrine, pseudoephedrine and norephedrine, as follows:

3003.41 – Containing ephedrine or its salts
3003.42 – Containing pseudoephedrine (INN) or its salts
3003.43 – Containing norephedrine or its salts
(Note: subheading 3003 concerns medications in bulk)

3004.41 – Containing ephedrine or its salts
3004.42 – Containing pseudoephedrine (INN) or its salts
3004.43 – Containing norephedrine or its salts
(Note: subheading 3004 concerns retail medications)

SUBSTANCES INCLUDED IN TABLE II

Acetone Acétone Acetona	(2-propanone) HS code: 2914.11 CAS number: 67-64-1
Anthranilic acid Acide anthranilique Acido antranílico	(2-aminobenzoic acid) HS code: 2922.43 CAS number: 118-92-3
Ethyl ether Ether éthylique Eter etílico	(1,1'-oxybis[ethane]) HS code: 2909.11 CAS number: 60-29-7
Hydrochloric acid ³ Acide chlorhydrique Acido clorhídrico	(hydrochloric acid) HS code: 2806.10 CAS number: 7647-01-0
Methyl ethyl ketone Méthyléthylcétone Metiletilcetona	(2-butanone) HS code: 2914.12 CAS number: 78-93-3
Piperidine Pipéridine Piperidina	(piperidine) HS code: 2933.32 CAS number: 110-89-4
Sulphuric acid ³ Acide sulfurique Acido sulfúrico	(sulfuric acid) HS code: 2807.00 CAS number: 7664-93-9
Toluene Toluène Tolueno	(benzene, methyl-) HS code: 2902.30 CAS number: 108-88-3

The salts of the substances listed in this Table whenever the existence of such salts is possible.

³ The salts of hydrochloric acid and sulphuric acid are specifically excluded from Table II.

PART TWO: CHEMICAL NAMES, SYNONYMS AND TRADE NAMES, ETC., OF SCHEDULED SUBSTANCES AND THEIR SALTS, IN ALPHABETICAL ORDER

The names of substances as given in the 1988 Convention are printed in **bold type**. They are accompanied by a reference to whether the related substances are scheduled in Table I or Table II of the 1988 Convention, as detailed in PART ONE.

Listed chemical names, synonyms and trade names apply sometimes to pure substances and sometimes to the salts of those substances. In all such cases, reference is made to the substance name as given in PART ONE. Commercial products identified by their trade names usually contain a scheduled substance mixed with one or more other ingredients. As indicated in the Introduction it is understood that the names of the substances, as given in the Tables of the Convention, cover all isomeric forms of the substances.

The list does not assume to be comprehensive. The absence of any chemical name, synonym or trade name, etc., for a scheduled substance does not necessarily mean that the substance with that name is not under international control. Further, it should be noted that the same name, particularly common or trade names, may be used for different substances in different countries. In cases where ambiguity may occur, it is recommended that the name of the substance in question should always be checked against the chemical designation or formula.

All chemical names, synonyms and trade names are listed alphabetically wherever possible. Chemical names with a prefix are included at the respective alphabetical position of the substance itself. Thus, for example,

N-acetylaminobenzoic acid is listed under "a",
trans-ephedrine is listed under "e",
D-lysergic acid is listed under "l",
1,2-methylenedioxy-4-allyl-benzene is listed under "m",
(+)-pseudoephedrine is listed under "p", and
 α -toluic acid is listed under "t", etc.

Name

N-AAA
 2-Acetamidobenzoic acid
 o-Acetamidobenzoic acid
 ortho-Acetamidobenzoic acid
 Acetanhydride
 Acetic acid, anhydride
Acetic anhydride
 Acetic oxide
 Aceton, -a, -e, -um
alpha-Aceto-*alpha*-cyanotoluene
Acetone
 Acétone
 Acetonersatz
 Acetonylbenzene
 5-Acetyl-1,3-benzodioxole
 1-(Acetyl)-3,4-methylenedioxybenzene
 Acetyl acetate
N-Acetylaminobenzoic acid
 2-Acetylaminobenzoic acid
 o-Acetylaminobenzoic acid
 1-Acetylamino-2-carboxybenzene
 Acetyl anhydride
***N*-Acetylanthranilic acid**
 2-Acetyl-benzeneacetonitrile
 Acetyl ether
 Acetyl oxide
alpha-Acetyl phenylacetoneitrile
 2-Acetyl-2-phenylacetoneitrile
alpha-Acetyl-*alpha*-tolunitrile
 Acide *N*-acétylanthranilique
 Acide 2-aminobenzöique
 Acide o-aminobenzöique
 Acide anthranilique
 Acide benzéne acétique
 Acide chlorhydrique
 Acide ergoline-8 β -carboxylique, didéhydro
 -9,10-méthyl-6-
 Acide indolo (4,3-fg)-quinoline, ergoline-8-carboxylique
 Acide lysergique
 Acide lysergique 2-hydroxy-1-méthyléthylamide
 Acide lysergique 2-propanolamide
 Acide phénylacétique
 Acide sulfurique
 Acide α -toluïque
 Acido *N*-acetilantranílico
 Acido orto-aminobenzoico
 Acido antranílico
 Acido bencenoacetico
 Acido clorhidrico
 Acido fenilacético
 Acido lisérgico
 Acido piroacetico
 Acido sulfúrico
 Acido α -toloico
 Acidum hydrochloricum (concentratum)
 Actifed
 Acutrim
 Adiret
 Aether anaestheticus
 Afrinol
 Allent
 5-Allyl-1,3-benzodioxole

Substance

N-Acetylanthranilic acid
N-Acetylanthranilic acid
N-Acetylanthranilic acid
N-Acetylanthranilic acid
 Acetic anhydride
 Acetic anhydride
see Table I
 Acetic anhydride
 Acetone
alpha-Phenylacetoacetonitrile
see Table II
 Acetone
 Methyl ethyl ketone
 1-Phenyl-2-propanone
 3,4-Methylenedioxyphenyl-2-propanone
 3,4-Methylenedioxyphenyl-2-propanone
 Acetic anhydride
N-Acetylanthranilic acid
N-Acetylanthranilic acid
N-Acetylanthranilic acid
N-Acetylanthranilic acid
 Acetic anhydride
see Table I
alpha-Phenylacetoacetonitrile
 Acetic anhydride
 Acetic anhydride
alpha-Phenylacetoacetonitrile
alpha-Phenylacetoacetonitrile
alpha-Phenylacetoacetonitrile
alpha-Phenylacetoacetonitrile
N-Acetylanthranilic acid
 Anthranilic acid
 Anthranilic acid
 Anthranilic acid
 Anthranilic acid
 Phenylacetic acid
 Hydrochloric acid

 Lysergic acid
 Lysergic acid
 Lysergic acid
 Ergometrine
 Ergometrine
 Phenylacetic acid
 Sulphuric acid
 Phenylacetic acid
N-Acetylanthranilic acid
 Anthranilic acid
 Anthranilic acid
 Phenylacetic acid
 Hydrochloric acid
 Phenylacetic acid
 Lysergic acid
 Acetone
 Sulphuric acid
 Phenylacetic acid
 Hydrochloric acid
 Pseudoephedrine
 Norephedrine
 Norephedrine
 Ethyl ether
 Pseudoephedrine
 Pseudoephedrine
 Saffrole

<i>Name</i>	<i>Substance</i>
Allylcatechol methylene ether	Safrole
Allyldioxybenzene methylene ether	Safrole
1-Allyl-3,4-methylenedioxybenzene	Safrole
4-Allyl-1,2-methylenedioxybenzene	Safrole
<i>m</i> -Allylpyrocatechin methylene ether	Safrole
4-Allylpyrocatechol formaldehyde acetal	Safrole
Allylpyrocatechol methylene ether	Safrole
Ambenyl-D	Pseudoephedrine
Amfed TD	Norephedrine
2-Aminobenzoic acid	Anthranilic acid
<i>o</i> -Aminobenzoic acid	Anthranilic acid
ortho-Aminobenzoic acid	Anthranilic acid
1-Amino-2-carboxybenzene	Anthranilic acid
α -(1-Aminoethyl) benzylalcohol	Norephedrine
2-Amino-1-phenyl-1-propanol	Norephedrine
Anaesthetic ether	Ethyl ether
Anesthesia ether	Ethyl ether
Anhídrido acético	Acetic anhydride
Anhídrido etanoico	Acetic anhydride
Anhydride acétique	Acetic anhydride
Anhydride éthanoïque	Acetic anhydride
Anthranilic acid	see Table II
<i>o</i> -Anthranilic acid	Anthranilic acid
Anthranilic acid, <i>N</i> -acetyl	<i>N</i> -Acetylanthranilic acid
Antisal 1A	Toluene
APAAN	<i>alpha</i> -Phenylacetoacetonitrile
Appedrine	Norephedrine
Arconovina	Ergometrine
Astmaphedrine	Ephedrine
Atridine	Pseudoephedrine
Avetol	Ergotamine
Azacyclohexane	Piperidine
Azijnzuur anhydride	Acetic anhydride
BMK	1-Phenyl-2-propanone
Basergin, -e	Ergometrine
Bellergal	Ergotamine
Benafed	Pseudoephedrine
Benazma	Pseudoephedrine
Benylin	Pseudoephedrine
Benzeneacetic acid	Phenylacetic acid
Benzeneacetonitrile, <i>alpha</i> -acetyl	<i>alpha</i> -Phenylacetoacetonitrile
Benzene, 4-allyl-1,2-(methylenedioxy)	Safrole
Benzenemethanol, α -[1-(methylamino)ethyl]-,[R-(R*,S*)]-	Ephedrine
Benzenemethanol, α -[1-(methylamino)ethyl]-,[S-(R*,R*)]-	Pseudoephedrine
Benzene, methyl-	Toluene
Benzene-1,2-(methylenedioxy)-4-allyl-	Safrole
Benzene-1,2-(methylenedioxy)-4-propenyl-	Isosafrole
1,3-Benzodioxal-5-yl-propan-2-one	3,4-Methylenedioxyphenyl-2-propanone
1,3-Benzodioxole-5-carbaldehyde	Piperonal
1,3-Benzodioxole-5-carboxaldehyde	Piperonal
1,3-Benzodioxole, 5-(1-propenyl)-	Isosafrole
1,3-Benzodioxole, 5-(2-propenyl)-	Safrole
1-(1,3-Benzodioxol-5-yl)-2-propanone	3,4-Methylenedioxyphenyl-2-propanone
1-(1,3-Benzodioxol-5-yl)-propan-2-one	3,4-Methylenedioxyphenyl-2-propanone
Benzoic acid, 2-(acetylamino)-	<i>N</i> -Acetylanthranilic acid
<i>N</i> -(5-(Benzyl-10b-hydroxy-2-methyl)-3,6-dioxoperhydro-oxazolo-(3,2-a)-pyrrolo(2,1c)pyrazin-2-yl)-D-lysergamide	Ergotamine
5'-Benzyl-12'-hydroxy-2'-methylergotaman-3',6',18-trione	Ergotamine
Benzyl methyl ketone	1-Phenyl-2-propanone
Biophedrin	Ephedrine
BMK	1-Phenyl-2-propanone
BOV	Sulphuric acid
Brexin	Pseudoephedrine

<i>Name</i>	<i>Substance</i>
Butane-2-one	Methyl ethyl ketone
Butanone	Methyl ethyl ketone
Butanone-2	Methyl ethyl ketone
2-Butanone	Methyl ethyl ketone
3-Butanone	Methyl ethyl ketone
Cafergot	Ergotamine
Cairox	Potassium permanganate
Caniphedrin, -e	Ephedrine
2-Carboxyacetanilide	<i>N</i> -Acetylanthranilic acid
Carboxyanilin, -e	Anthranilic acid
2-Carboxyanilin, -e	Anthranilic acid
o-Carboxyaniline	Anthranilic acid
ortho-Carboxyaniline	Anthranilic acid
Cenafed	Pseudoephedrine
Cetona	Acetone
Chameleon mineral	Potassium permanganate
Cheston	Pseudoephedrine
Chlorhydric acid	Hydrochloric acid
Chlorowodor	Hydrochloric acid
Chlor-trimeton Decongestant	Pseudoephedrine
CI 77755	Potassium permanganate
Coldecon	Norephedrine
Condy's crystals	Potassium permanganate
Congestac	Pseudoephedrine
Congesteze	Pseudoephedrine
Control	Norephedrine
Cornocentin, -e	Ergometrine
Cornutamin	Ergotamine
Co-Tylenol	Pseudoephedrine
CP-25	Toluene
Cryovinal	Ergometrine
1-Cyano-1-phenyl-2-propanone	<i>alpha</i> -Phenylacetoacetonitrile
Cyclopentimine	Piperidine
Cypentyl	Piperidine
DAM-57	Lysergic acid
Daycare	Pseudoephedrine
Decofed	Pseudoephedrine
Deconamine	Pseudoephedrine
Decongestant Syrup	Pseudoephedrine
Dex-A-Diet	Norephedrine
Dexatrim	Norephedrine
Dextrolysergic acid levo-2-propanolamine	Ergometrine
D-Feda	Pseudoephedrine
Diadax	Norephedrine
9,10-Didehydro- <i>N</i> -(2-hydroxy-1-methylethyl)-6-methylergoline-8 β -carboxamide	Ergometrine
9,10-Didehydro- <i>N</i> -[(<i>S</i>)-2-hydroxy-1-methylethyl]-6-methylergoline-8 β -carboxamide	Ergometrine
[8 β (<i>S</i>)]-9,10-Didehydro- <i>N</i> -(2-hydroxy-1-methylethyl)-6-methylergoline-8 β -carboxamide	Ergometrine
9,10-Didehydro-6-methylergoline-8 β -carboxylic acid	Lysergic acid
(8 β)-9,10-Didehydro-6-methylergoline-8-carboxylic acid	Lysergic acid
Diethoxyethane	Ethyl ether
Diethyl ether	Ethyl ether
Diethyl oxide	Ethyl ether
Diet Plan with Diadax	Norephedrine
Diet Aid	Norephedrine
3,4-Dihydroxybenzaldehyde methylene ketal	Piperonal
Dimacol	Pseudoephedrine
Diméthylcétal	Acetone
Diméthylcétone	Acetone

<i>Name</i>	<i>Substance</i>
3,4-Dimethylenedioxybenzaldehyde	Piperonal
Diméthylformaldéhyde	Acetone
Dimethylketone	Acetone
Dioxyde d'éthyle	Ethyl ether
Dioxymethyleneprotocatechuic aldehyde	Piperonal
Dipping acid	Sulphuric acid
Disophrol	Pseudoephedrine
Dorcol	Pseudoephedrine
Drixora	Pseudoephedrine
Drixoral	Pseudoephedrine
Dwuetylowy eter	Ethyl ether
Eciphin	Ephedrine
Ectasule-minus	Ephedrine
Efedrin, -a, -e	Ephedrine
Efedron	Ephedrine
Efetonina	Ephedrine
Effergot	Ergotamine
Eggophedrin, -e	Ephedrine
Elton	Pseudoephedrine
Emprazil	Pseudoephedrine
Endrine	Ephedrine
Ephedral	Ephedrine
Ephedrate	Ephedrine
Ephedremal	Ephedrine
Ephedrin, -a, -e, -um	Ephedrine
(-)-Ephedrin, -e	Ephedrine
Ephedrine	see Table I
Ephédrine	Ephedrine
l-Ephedrin, -e	Ephedrine
l(-)-Ephedrine	Ephedrine
(-)-(1R,2S)-Ephedrine	Ephedrine
(-)-erythro-Ephedrine	Ephedrine
l(R),2(S)-erythro-(-)-Ephedrine	Ephedrine
trans-Ephedrine	Pseudoephedrine
dl-Ephedrinum	Ephedrine
Ephedrital	Ephedrine
Ephedrivo	Ephedrine
Ephedrol	Ephedrine
Ephedronguent	Ephedrine
Ephedrosan	Ephedrine
Ephedrosst	Ephedrine
Ephedrotal	Ephedrine
Ephedsol	Ephedrine
Ephetonin, -e	Ephedrine
Ephoxamin	Ephedrine
Ergam	Ergotamine
Ergate	Ergotamine
Ergkatal	Ergotamine
Ergine	Lysergic acid
Ergoatetrine	Ergometrine
Ergobasine	Ergometrine
Ergocaf	Ergotamine
Ergo Caffein	Ergotamine
Ergofar	Ergometrine
Ergoklinine	Ergometrine
Ergoline-8 β -carboxamide, 9,10 didehydro- <i>N</i> -(2-hydroxy-1-methylethyl)-6-methyl-, [8 β (S)]	Ergometrine
Ergoline-8 β -carboxylic acid, 9,10-didehydro-6-methyl-	Lysergic acid
Ergomal	Ergometrine
Ergomar	Ergotamine

<i>Name</i>	<i>Substance</i>
Ergomar "Nordson"	Ergometrine
Ergomed	Ergometrine
Ergomet	Ergometrine
Ergometrin, -a, -i, -um	Ergometrine
Ergometrine	see Table I
Ergométrine	Ergometrine
Ergometrinin, -e	Ergometrine
Ergonine	Ergometrine
Ergonovin, -e, -um	Ergometrine
Ergostabil	Ergometrine
Ergostat	Ergotamine
Ergostetrine	Ergometrine
Ergotaman-3',6',18'-trione,12'-hydroxy-2'-methyl-5'- (phenylmethyl)-,(5' α)	Ergotamine
Ergotamin, -a, -i, -um	Ergotamine
Ergotamine	see Table I
Ergotaminine	Ergotamine
Ergotan	Ergotamine
Ergotan-A	Ergotamine
Ergotartrat	Ergotamine
Ergotatropin	Ergotamine
Ergotocine	Ergometrine
Ergoton-A	Ergotamine
Ergoton-B	Ergometrine
Ergotate	Ergometrine
Ermalate	Ergometrine
Ermetrin, -e	Ergometrine
Esprit pyroligneux	Acetone
Étérfílico	Ethyl ether
Eter sulfurico	Ethyl ether
Ethane,1,1'-oxybis-	Ethyl ether
Ethane oxyéthane	Ethyl ether
Ethanoic acid anhydride	Acetic anhydride
Ethanoic anhydrate	Acetic anhydride
Ethanoic anhydride	Acetic anhydride
Ether	Ethyl ether
Ether éthylique	Ethyl ether
Ether pro narcosi	Ethyl ether
Ether sulfurique	Ethyl ether
Ethoxyethane	Ethyl ether
Ethyl ether	see Table II
Ethyl methyl ketone	Methyl ethyl ketone
Ethyl oxide	Ethyl ether
Etin	Ergotamine
Exmigra	Ergotamine
Exmigrex	Ergotamine
Fasupond	Norephedrine
Feda	Pseudoephedrine
D-Feda	Pseudoephedrine
Fedahist	Pseudoephedrine
Fedrazil	Pseudoephedrine
Fedrine	Ephedrine
Fema No. 2878	Phenylacetic acid
Femergin	Ergotamine
α -Fenilacetoacetonitrilo	<i>alpha</i> -Phenylacetoacetonitrile
Fenilpropanolamina	Norephedrine
1-Fenil-2-propanona	1-Phenyl-2-propanone
First Sign	Pseudoephedrine
5-Formylbenzodioxole	Piperonal
5-Formyl-1,3-benzodioxole	Piperonal
Fugoa	Norephedrine
Fugoa N	Norephedrine

<i>Name</i>	<i>Substance</i>
Galpseud	Pseudoephedrine
Geliotropin	Piperonal
Gotamine	Ergotamine
Gynergen	Ergotamine
Halin	Pseudoephedrine
Halofed	Pseudoephedrine
Heliotropin, -e	Piperonal
Help	Norephehrine
Hemogen	Ergometrine
4,6,6a,7,8,9-Hexahydro-7-methylindole[4,3-fg]quinoline-9-carboxylic acid	Lysergic acid
(6aR,9R)-4,6,6a,7,8,9-Hexahydro- <i>N</i> -[(2S)-1-hydroxyprop-2-yl]-7-methyl-indolo[4,3-fg]quinoline-9-carboxamide	Ergometrine
Hexahydropyridin, -e	Piperidine
Hexazane	Piperidine
Histalet	Pseudoephedrine
Hydrochloric acid	see Table II
Hydrochloride acid	Hydrochloric acid
Hydrogen chloride (aqueous)	Hydrochloric acid
Hydroot	Sulphuric acid
1-Hydroxy-2-methylamino-1-phenylpropane	Ephedrine
α -Hydroxy- β -methylaminopropylbenzene	Ephedrine
	Pseudoephedrine
Hydroxymethylethyllysergamide	Ergometrine
<i>N</i> -[1-(Hydroxymethyl)ethyl]- <i>D</i> -lysergamide	Ergometrine
<i>N</i> -(2-Hydroxy-1-methylethyl)- <i>D</i> (+)-lysergamide	Ergometrine
<i>N</i> -[(<i>S</i>)-2-Hydroxy-1-methylethyl]lysergamide	Ergometrine
<i>N</i> -[(<i>S</i>)-2-Hydroxy-1-methylethyl]- <i>D</i> -lysergamide	Ergometrine
<i>N</i> -[α -(Hydroxymethyl)ethyl]- <i>D</i> -lysergamide	Ergometrine
(α R, β R)- β -Hydroxy- α -methylphenethyl- <i>N</i> -methylammonium chloride	Pseudoephedrine
(+)-(α S, β S)- β -Hydroxy- α -methylphenethyl- <i>N</i> -methylammonium chloride	Pseudoephedrine
12'-Hydroxy-2'-methyl-5' α -(phenylmethyl)-ergotaman-3',6',18-trione	Ergotamine
12'-Hydroxy-2'-methyl-3',6',18-trioxo-5-benzylergotaman	Ergotamine
(5'S)-12'-Hydroxy-2'-methyl-3',6',18-trioxo-5-benzylergotaman-(+)-	Ergotamine
(-)-(1R,2S)- <i>N</i> -(1-Hydroxy-1-phenylprop-2-yl)- <i>N</i> -methylammonium HCl	Ephedrine
Hydroxypropyllysergamide	Ergometrine
(+)- <i>N</i> -[(2S)-1-Hydroxyprop-2-yl]- <i>D</i> -lysergamide	Ergometrine
Indolo-(4,3-fg)-quinoline, ergotamin-3',6',18-trione	Ergotamine
Intensin	Pseudoephedrine
I-Sedrin	Ephedrine
Isoclor	Pseudoephedrine
Isoephedrine	Pseudoephedrine
d-Isoephedrine	Pseudoephedrine
Isofedrin	Pseudoephedrine
Isofedrol	Ephedrine
Isolysergic acid	Lysergic acid
Iso-phedrizem	Ephedrine
Isosafrol	Isosafrole
Isosafrole	see Table I
Kalii Permanganas	Potassium permanganate
Kaliumpermanganat	Potassium permanganate
Ketobutan	Methyl ethyl ketone
β -Ketonepropane	Acetone
β -Ketopropane	Acetone
Kontexin	Norephedrine
Kratedyn	Ephedrine
Kronofed-A	Pseudoephedrine
Lanatrata	Ergotamine

<i>Name</i>	<i>Substance</i>
Lexofedrin	Ephedrine
Lexophedrine	Ephedrine
Linctifed	Pseudoephedrine
Lingraine	Ergotamine
Lingrän	Ergotamine
Lingrene	Ergotamine
Lysergic acid	see Table I
D-Lysergic acid	Lysergic acid
(+)-Lysergic acid	Lysergic acid
D(+)-Lysergic acid	Lysergic acid
D(+)-Lysergic acid- β -hydroxyisopropylamide	Ergometrine
D-Lysergic acid 1-(hydroxymethyl)ethylamide	Ergometrine
D-Lysergic acid 2-hydroxy-1-methylethylamide	Ergometrine
D-Lysergic acid-1,2-propanolamide	Ergometrine
Margonovine	Ergometrine
Matting acid	Sulphuric acid
Maxiphed	Pseudoephedrine
MDP2P	3,4-Methylenedioxyphenyl-2-propanone
3,4-MDP-2-P	3,4-Methylenedioxyphenyl-2-propanone
MEC	Methyl ethyl ketone
Medihaler-Ergotamine	Ergotamine
MEETCO	Methyl ethyl ketone
MEK	Methyl ethyl ketone
Methacid, -e	Toluene
Methane, phenyl-	Toluene
Methyl acetone	Methyl ethyl ketone
[R-(R*,S*)]- α -[1-(Methylamino)ethyl]benzenemethanol	Ephedrine
[S-(R*,R*)]- α -[1-(Methylamino)ethyl]benzenemethanol	Pseudoephedrine
α -[1-(Methylamino)ethyl]benzene methanol	Ephedrine
	Pseudoephedrine
α -[1-(Methylamino)ethyl]benzyl alcohol	Ephedrine
	Pseudoephedrine
1- α -[1-(Methylamino)ethyl]benzyl alcohol	Ephedrine
dl- α -[1-(Methylamino)ethyl]benzyl alcohol	Ephedrine
2-Methylamino-1-phenyl-1-propanol	Ephedrine
	Pseudoephedrine
2-Methylamino-1-phenylpropan-1-ol	Ephedrine
2-Methylamino-1-phenylpropanol	Ephedrine
(1R,2S)-2-Methylamino-1-phenyl-1-propanol	Ephedrine
(1R,2S)-2-Methylamino-1-phenyl-propan-1-ol	Ephedrine
(+)-2-Methylamino-1-phenylpropan-1-ol	Pseudoephedrine
(+)-(1S,2R)-2-(Methylamino)-1-phenyl-1-propanol	Pseudoephedrine
(+)-(1S,2S)-2-(Methylamino)-1-phenylpropan-1-ol	Pseudoephedrine
DL-threo-2-(Methylamino)-1-phenylpropan-1-ol	Pseudoephedrine
Methylbenzene	Toluene
Methylbenzol	Toluene
Methyl benzyl ketone	1-Phenyl-2-propanone
Methyl ketone	Acetone
1,2-Methylenedioxy-4-allyl-benzene	Safrole
3,4-Methylenedioxy-allylbenzene	Safrole
3,4-(Methylenedioxy)benzaldehyde	Piperonal
3,4-Methylenedioxybenzyl methyl ketone	3,4-Methylenedioxyphenyl-2-propanone
3,4-Methylenedioxy-4-(isopropenyl)-benzene	Isosafrole
3,4-Methylenedioxyphenylacetone	3,4-Methylenedioxyphenyl-2-propanone
3,4-Methylenedioxyphenyl-2-propanone	see Table I
1-(3,4-Methylenedioxyphenyl)-2-propanone	3,4-Methylenedioxyphenyl-2-propanone
Méthylènedioxy-3,4-phényl propanone-2	3,4-Methylenedioxyphenyl-2-propanone
1,2-(Methylenedioxy)-4-propenylbenzene	Isosafrole
1,2-(Methylenedioxy)-4-propen-2-ylbenzene	Isosafrole
3,4-(Methylenedioxy)-1-propenylbenzene	Isosafrole
Méthyléthylcétone	Methyl ethyl ketone
Methyl ethyl ketone	see Table II

<i>Name</i>	<i>Substance</i>
<i>N</i> -Methylnorephedrine	Ephedrine
Methyl piperonyl ketone	3,4-Methylenedioxyphenyl-2-propanone
3,4-Metilendioxiifenil-2-propanona	3,4-Methylenedioxyphenyl-2-propanone
Metiletilcetona	Methyl ethyl ketone
Metriclavin, -e	Ergometrine
Metrisanol	Ergometrine
Migral Rigetamine	Ergotamine
Migretamine	Ergotamine
Migril	Ergotamine
Migwell	Ergotamine
Minims ephedrine (hydrochloride)	Ephedrine
Monydrin	Norephedrine
Mucorama	Norephedrine
Muriatic acid	Hydrochloric acid
Mydriatin	Norephedrine
Myfedrine	Pseudoephedrine
Naldegesic	Pseudoephedrine
Narixan	Pseudoephedrine
Nasa-12	Pseudoephedrine
Nasol	Ephedrine
NCI-CO1730	Anthranilic acid
NCI-CO7272	Toluene
NCI-C55652	Ephedrine
Neo-ergotin	Ergotamine
Neofed	Pseudoephedrine
Neofemergen	Ergometrine
Neo-Femergen	Ergometrine
Nordhausen acid	Sulphuric acid
Norephedrine	See Table I
Novafed 120	Pseudoephedrine
Novahistine	Pseudoephedrine
Novergo	Ergometrine
Obestat	Norephedrine
Octowy bezwodnik	Acetic anhydride
Oil of Vitriol	Sulphuric acid
Oranyl	Pseudoephedrine
Otrinol	Pseudoephedrine
3-Oxapentane	Ethyl ether
8H-Oxazolo(3,2-a)pyrrolo(2,1-c)pyrazine, ergotam- 3',6',18-trione	Ergotamine
Oxido acetico	Acetic anhydride
Oxido de acetilo	Acetic anhydride
2-Oxobutane	Methyl ethyl ketone
3-Oxo-2-phenylbutanenitrile	<i>alpha</i> -Phenylacetoacetonitrile
3-Oxo-2-phenylbutyronitrile	<i>alpha</i> -Phenylacetoacetonitrile
2-Oxo-1-phenylpropyl cyanide	<i>alpha</i> -Phenylacetoacetonitrile
Oxybisethane	Ethyl ether
1-1'-Oxybis[ethane]	Ethyl ether
Oxyde acétique	Acetic anhydride
Oxyde acétylique	Acetic anhydride
Oxyde d'éthyle	Ethyl ether
P2P	1-Phenyl-2-propanone
PAA	Phenylacetic acid
Pandril	Ephedrine
Panergal	Ergometrine
Paragesic	Pseudoephedrine
PediaCare	Pseudoephedrine
Pentamethyleneamine	Piperidine
Pentamethylenimin, -e	Piperidine
Perhydropyridine	Piperidine
Permanganate de potassium	Potassium permanganate
Permanganate of potash	Potassium permanganate
Permanganato potásico	Potassium permanganate
Permanganic acid, potassium salt	Potassium permanganate

Name

Phenergan-D
Phenoxine
Phenylacetic acid
2-Phenylacetic acid
w-Phenylacetic acid
alpha-Phenylacetoacetonitrile
2-Phenylacetoacetonitrile
 α -Phénylacétoacétonitrile
Phenylacetone
 α -Phenylacetone
Phenyl-drine
Phenylethanoic acid
1-Phenyl-2-amino-1-propanol
1-Phenyl-1-hydroxy-2-methylaminopropane

Phenyl methane
1-Phenyl-2-methylaminopropanol

1-Phenyl-2-methylamino-1-propanol

1-Phenyl-2-methylaminopropanol-1
Phenylmethyl methyl ketone
1-Phenyl-2-oxopropane
Phenylpropanolamine
Phénylpropanolamine
Phenylpropanolaminum
Phenyl-2-propanone
Phényl-1 propanone-2
1-Phenyl-2-propanone
3-Phenyl-2-propanone
Piperidin, -a
Piperidine
Pipéridine
Piperonal
Pipéronal
Piperonaldehyde
Piperonylaldehyde
Piperonyl methyl ketone
PMK
Polaramine
Potassium permanganate
P2P
Proasthmin
Procol
Profedrine
Pronarcol
Propadrine
Propagest
2-Propanon, -e
Propanone
Propan-2-one
2-Propanone, 1-(1,3-benzodioxol-5-yl)-
2-Propanone, 1-[3,4-(methylenedioxy)phenyl]-
2-Propanone, 1-phenyl
5-(1-Propenyl)-1,3-benzodioxole
5-(2-Propenyl)-1,3-benzodioxole
4-Propenylcatechol methylene ether
4-Propenyl-1,2-methylenedioxybenzene
Protocatechualdehyde methylene ether
Protocatechuic aldehyde methylene ether
Pseudoephedrine
Pseudo-éphédrine

Substance

Pseudoephedrine
Norephedrine
see Table I
Phenylacetic acid
Phenylacetic acid
see Table I
alpha-Phenylacetoacetonitrile
alpha-Phenylacetoacetonitrile
1-Phenyl-2-propanone
1-Phenyl-2-propanone
Norephedrine
Phenylacetic acid
Norephedrine
Ephedrine
Pseudoephedrine
Toluene
Ephedrine
Pseudoephedrine
Ephedrine
Pseudoephedrine
Ephedrine
1-Phenyl-2-propanone
1-Phenyl-2-propanone
Norephedrine
Norephedrine
Norephedrine
1-Phenyl-2-propanone
1-Phenyl-2-propanone
see Table I
1-Phenyl-2-propanone
Piperidine
see Table II
Piperidine
see Table I
Piperonal
Piperonal
Piperonal
3,4-Methylenedioxyphenyl-2-propanone
3,4-Methylenedioxyphenyl-2-propanone
Pseudoephedrine
see Table I
1-Phenyl-2-propanone
Ephedrine
Norephedrine
Pseudoephedrine
Ethyl ether
Norephedrine
Norephedrine
Acetone
Acetone
Acetone
3,4-Methylenedioxyphenyl-2-propanone
3,4-Methylenedioxyphenyl-2-propanone
1-Phenyl-2-propanone
Isosafrole
Safrole
Isosafrole
Isosafrole
Piperonal
Piperonal
see Table I
Pseudoephedrine

<i>Name</i>	<i>Substance</i>
d-Pseudoephedrine	Pseudoephedrine
(+)-Pseudoephedrine	Pseudoephedrine
L-(+)-Pseudoephedrine	Pseudoephedrine
(+)-(1S,2S)-Pseudoephedrine	Pseudoephedrine
Pseudoephedrine Polistirex	Pseudoephedrine
Pseudofrin	Pseudoephedrine
Pyroacetic acid	Acetone
Pyroacetic ether	Acetone
Quetena de metilo	Acetone
Racephedrine	Ephedrine
RCRA Waste Number U117	Ethyl ether
RCRA Waste Number U141	Isosafrole
RCRA Waste Number U159	Methyl ethyl ketone
RCRA Waste Number U203	Safrole
RCRA Waste Number U220	Toluene
Repedrina	Pseudoephedrine
Restaslim	Norephedrine
Reukap	Ephedrine
Rhinalair	Pseudoephedrine
Rhindecon	Norephedrine
Rhyuno oil	Safrole
Rigetamine	Ergotamine
Rinexin	Norephedrine
Robidrine	Pseudoephedrine
Robitussin	Pseudoephedrine
Rocof	Pseudoephedrine
Ro-Fedrin	Pseudoephedrine
Rondec	Pseudoephedrine
Sacetyl	Norephedrine
Safrol	Safrole
Safrole	see Table I
Safrole MF	Safrole
Sal-Phedrine	Ephedrine
Salzsäure	Hydrochloric acid
Samedrine	Ephedrine
Sancos Co	Pseudoephedrine
Sanephedrine	Ephedrine
Schwefelsäure	Sulphuric acid
Secacornine	Ergometrine
Secagyn	Ergotamine
Secometrin, -e	Ergometrine
Secupan	Ergotamine
Seudoefedrina	Pseudoephedrine
Seudotabs	Pseudoephedrine
Shikimol, -e	Safrole
Sinarest	Pseudoephedrine
Sine-Aid	Pseudoephedrine
Sine-Off	Pseudoephedrine
Sinufed	Pseudoephedrine
Slim Caps	Norephedrine
Solvent ether	Ethyl ether
Spaneph	Ephedrine
Spent sulfuric acid	Sulphuric acid
Spirit of salt	Hydrochloric acid
Spirit of sulfur	Sulphuric acid
Spray-U-Thin	Norephedrine
Stay Trim	Norephedrine
Sucrets	Norephedrine
Sudafed	Pseudoephedrine
Sudanyl	Pseudoephedrine
Sudelix	Pseudoephedrine
Sudomyl	Pseudoephedrine

Name

Sufedrin
Sufrol
Sulfuric acid
Sulfuric ether
Sulphuric acid
Suolelix
Symptom 2
Syntometrine
Syrтуссар
Takimetrin
Tinaroc
Toluene
Toluène
Tolueno
 α -Toluic acid
Toluol
Tolu-sol
Toluylic acid
 α -Tolylic acid
Triocos
Triphed
Tusaphed
Tussafed
Tussifed
Tylenol
Unitrol
Ursinus
Uteron
Vencipon
Vitamin L
Vitamino L1
Vitriol brown oil
Vitriol, oil of
Wal-Phed
Westrim
Wigraine
Zephrol

Substance

Pseudoephedrine
Sulphuric acid
Sulphuric acid
Ethyl ether
see Table II
Pseudoephedrine
Pseudoephedrine
Ergometrine
Norephedrine
Ergometrine
Norephedrine
see Table II
Toluene
Toluene
Phenylacetic acid
Toluene
Toluene
Phenylacetic acid
Phenylacetic acid
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Pseudoephedrine
Ergometrine
Ephedrine
Anthranilic acid
Anthranilic acid
Sulphuric acid
Sulphuric acid
Pseudoephedrine
Norephedrine
Ergotamine
Ephedrine

**PART THREE: TABLE SHOWING THE PURE ANHYDROUS BASE CONTENT
OF SOME SCHEDULED SUBSTANCES IN THEIR SALT FORM**

Substance	Base or salt	Approximate pure anhydrous base content (percentage)
Ephedrine	Base hemihydrate (0.5H ₂ O)	95
	Hydrochloride	82
	Nitrate	72
	Sulphate (2 mol. base)	77
Ergometrine	Hydrochloride	90
	Maleate	74
	Oxalate	82
	Tartrate (2 mol. base)	81
Ergotamine	Hydrochloride	94
	Succinate (2 mol. base)	91
	Tartrate (2 mol. base)	89
Norephedrine	Hydrochloride	80
Piperidine	Aurichloride	20
	Bitartrate	36
	Hydrochloride	70
	Nitrate	58
	Phosphate	46
	Picrate	27
	Platinichloride (2 mol. base)	29
	Thiocyanate	59
Pseudoephedrine	Hydrochloride	82
	Sulphate (2 mol. base)	77

The above table of conversion factors should be used to convert quantities of scheduled substances in their salt form into quantities of pure anhydrous base.