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International Nonproprietary Names for Pharmaceutical Substances

In accordance with article 3 of the Procedure for the Selection of Recommended International Nonproprietary Names for Pharmaceutical Substances,¹ notice is hereby given that the following names are under consideration by the World Health Organization as Proposed International Nonproprietary Names.

Comments on, or formal objections to, the proposed names may be forwarded by any person to the Pharmaceuticals unit of the World Health Organization within four months of the date

of their publication in the WHO Chronicle.

The inclusion of a name in the lists of proposed international nonproprietary names does not imply any recommendation for the use of the substance in medicine or pharmacy.

Proposed International Nonproprietary Names (Prop. I.N.N.): List 29 2

Proposed International Nonproprietary Name (Latin, English)

Chemical Name or Description, Molecular and Graphic Formulae

acidum aceburicum aceburic acid 4-hydroxybutyric acid acetate C6H10O4

 $H_3C-CO-O-(CH_2)_3-COOH$

acidum furacrinicum furacrinic acid 6-methyl-5-(2-methylenebutyryl)-2-benzofurancarboxylic acid C15H14O4

$$H_2C = C - CO$$
 C_2H_5

183, 418; 1970, 24, 119, 413; 1971, 25, 123, 415; 1972, 26, 121, 414.

Lists of recommended international non-proprietary names were published in *Chron. Wid Hilh Org.*, 1955, 9, 185; *WHO Chron.cle*, 1959, 13, 106, 463; 1962, 16, 101; 1965, 19, 165, 206, 249; 1966, 20, 421; 1967, 21, 538; 1968, 22, 463; 1969, 23, 490; 1970, 24, 526; 1971, 25, 476; 1972, 26, 476.

All names from lists 1–25 of proposed international nonproprietary names, together with a molecular formula index, will be found in: World Health Organization (1971) International nonproprietary names for pharmaceutical substances: Cumulative list No. 3, 1971, Geneva, 189 pages (price: £2.40, \$6.00, or Sw. fr. 24.—).

¹ See Annex, p 21.

² Other lists of proposed international non-proprietary names can be found in Chron. Wid Hith Org., 1953, 7, 299, 1954; 8, 216, 313; 1956, 10, 28; 1957, 11, 231; 1958, 12, 102; WHO Chromcle, 1959, 13, 105, 152; 1960, 14, 168, 244; 1961, 15, 314; 1962, 16, 385; 1963, 17, 389; 1964, 18, 431; 1965, 19, 446; 1966, 20, 216; 1967, 21, 70, 478; 1968, 22, 112, 407; 1969, 23.

acidum prodolicum prodolic acid 1,3,4,9-tetrahydro-1-propylpyrano [3,4-*b*]indole-1-acetic acid C₁₆H₁₉NO₃

avoparcinum avoparcin a glycopeptide antibiotic obtained from cultures of Streptomyces candidus, or the same substance produced by any other means

batroxobinum batroxobin a thrombinlike enzyme obtained from the venom of the serpent ${\it Bothrops\ atrox}$

benfosforminum benfosformin disodium [(benzylamidino)amidino]phosphoramidate monohydrate $C_9H_{12}N_5Na_2O_3P.H_2O$

bisbendazolum bisbendazole bis [1-(1-methyl-2-benzimidazolyl)ethyl] tetrathio-p-benzenedicarbamate $C_{28}H_{28}N_{6}S_{4}$

bromocriptinum bromocriptine 2-bromoergocryptine C32H40BrN5O5

brosotamidum brosotamide 5-bromo-2,3-cresotamide CaHaBrNO2

bunaftinum bunaftine N-butyl-N-[2-(diethylamino)ethyl]-1-naphthamide $C_{21}H_{30}N_2O$

buprenorphinum buprenorphine 21-cyclopropyl-7 a- [(S)-1-hydroxy-1,2,2-trimethylpropyl]-6,14-endo-ethano-6,7,8,14-tetrahydrooripavine C₂₉H₄₁NO₄

butixiratum butixirate a-ethyl-4-biphenylacetic acid compound with *trans*-4-phenylcyclohexylamine (1:1) $C_{16}H_{16}O_2 \cdot C_{12}H_{17}N$ or $C_{28}H_{33}NO_2$

calcii natrii ferriclas calcium sodium ferriclate monocalcium tetrasodium bis[pentaaqua-[D-gluconato(4-)]-tetra- μ -hydroxy-dioxotriferrate(3-)] C₁₂H₄₄CaFe₆Na₄O₃₆

camiverinum camiverine 2-phenyl-N-[2-(1-pyrrolidinyl)ethyl]glycine isopentyl ester $C_{19}H_{30}N_2O_2$

carbuterolum carbuterol [5-[2-(tert-butylamino)-1-hydroxyethyl]-2-hydroxyphenyl]urea C13H21N3O3

carindacillinum carindacillin $N\hbox{-}(2\hbox{-}carboxy\hbox{-}3,3\hbox{-}dimethyl\hbox{-}7\hbox{-}oxo\hbox{-}4\hbox{-}thia\hbox{-}1\hbox{-}azabicyclo\,[3\,.\,2\,.\,0]\hbox{-}hept\hbox{-}6\hbox{-}y!)\hbox{-}2\hbox{-}phenylmalonamic acid 1\hbox{-}(5\hbox{-}indanyl) ester $C_{26}H_{26}N_2O_6S$$

caroxazonum caroxazone

2-oxo-2*H*-1,3-benzoxazine-3(4*H*)-acetamide C₁₀H₁₀N₂O₃

cefoxitinum cefoxitin

3-(hydroxymethyl)-7-methoxy-8-oxo-7-[2-(2-thienyl)acetamido]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid carbamate (ester) C16H17N3O7S2

ceruletidum ceruletide

5-oxo-L-prolyl-L-glutaminyl-L-aspartyl-L-tyrosyl-L-threonylglycyl-L-tryptophyl-L-methionyl-L-aspartylphenyl-L-alaninamide 4-(hydrogen sulfate) (ester) C₅₈H₇₃N₁₃O₂₁S₂

SO₃H H-5-oxo-L-Pro-L-Glu(NH₂)-L-Asp-L-Tyr-L-Thr-Gly-L-Trp-L-Met-L-Asp-L-Phe-NH₂

ciclopraminum ciclopramine

2,3,7,8-tetrahydro-3-(methylamino)-1*H*-quino[1,8-ab][1]benzazepine C₁₈H₂₀N₂

clazolamum clazolam

(+)-2-chloro-5,9,10,14b-tetrahydro-5-methylisoquino [2,1-d]1,4]-benzodiazepin-6(7H)-one C₁₈H₁₇C!N₂O

clocanfamidum clocanfamide

 $\rho\text{-chloro-}N\text{-}(2\text{-hydroxyethyl})\text{-}N\text{-}[(3\text{-methyl-}2\text{-norbornyl})\text{methyl}]\text{-}benzamide $C_{18}H_{24}CINO_2$$

cloridarolum cloridarol

a-(p-chlorophenyl)-2-benzofuranmethanol C₁₅H₁₁ClO₂

clorotepinum clorotepine

1-(8-chloro-10,11-dihydrodibenzo [b,f]thiepin-10-yl)-4-methylpiperazine C₁₉H₂₁CIN₂S

cioxazolamum cloxazolam

10-chloro-11b-(o-chlorophenyl)-2,3,7,11b-tetrahydro-oxazolo[3,2-d] [1,4]benzodiazepin-6(5H)-one C₁₇H₁₄Cl₂N₂O₂

colfenamatum colfenamate N-(α,α,α -trifluoro-m-tolyl)anthranilic acid, ester with glycolamide C16H13F3N2O3

cormetasonum cormetasone 6,6,9-trifluoro-11 β ,17,21-trihydroxy-16 α -methylpregna-1,4-diene-3,20-dione C₂₂H₂₇F₃O₅

dazadrolum dazadrol $\alpha\text{-}(\text{$p$-chlorophenyl})\text{-}\alpha\text{-}2\text{-}imidazolin\text{-}2\text{-}yl\text{-}2\text{-}pyridinemethanol}$ C15H14ClN3O

dectaflurum dectaflur 9-octadecenylamine hydrofluoride C₁₈H₃₇N · HF *or* C₁₈H₃₈FN

H3C-(CH2)7-CH=CH-(CH2)7-CH2-NH2 • HF

dipyrithionum dipyrithione 2,2'-dithiodipyridine 1,1'-dioxide C10HaN2O2S2

dobutaminum dobutamine

(\pm)-4-[2-[[3-(ho-hydroxyphenyl)-1-methylpropyl]amino]ethyl]pyrocatechol C18H23NO3

doxazolinum doxazoline

 $2\text{-}(3,6\text{-}dimethoxy\text{-}2,4\text{-}dimethylbenzyl})\text{-}2\text{-}imidazoline}$ $C_{14}H_{20}N_{2}O_{2}$

drocinonidum drocinonide

9-fluoro-11 β ,16 α ,17,21-tetrahydroxy-5 α -pregnane-3,20-dione cyclic 16,17-acetal with acetone C24H35FO6

elucainum elucaine

 $\alpha\text{-}[(diethylamino)methyl]benzyl alcohol benzoate (ester) <math display="inline">C_{19}H_{23}NO_2$

endrisonum endrisone 11 β -hydroxy-6 α -methylpregna-1,4-diene-3,20-dione C22H3oO3

etidocainum etidocaine (\pm)-2-(N-ethylpropylamino)-2',6'-butyroxylidide C₁₇H₂₈N₂O

etofenamatum etofenamate 2-(2-hydroxyethoxy)ethyl-N-(α , α , α -trifluoro-m-tolyl)anthranilate C18H18F3NO4

etoloxaminum etoloxamine 2- $[(\alpha-phenyl-o-tolyl)oxy]$ triethylamine C₁₉H₂₅NO

fenalcominum fenalcomine

α-ethyl-ρ- [2-[(α-methylphenethyl)amino]ethoxy]benzyl alcohol C₂₀H₂₇NO₂

fenbendazolum fenbendazole

methyl 5-(phenylthio)-2-benzimidazolecarbamate C15H13N3O2S

fenipentolum fenipentol

α-butylbenzyl alcohol C11H16O

fenisorexum fenisorex

cis-7-fluoro-1-phenyl-3-isochromanmethylamine C16H16FNO

fentonii bromidum fentonium bromide 3α -hydroxy-8-(p-phenylphenacyl)- 1α H, 5α H-tropanium bromide (-)-tropate C_{31} H $_{34}$ BrNO $_{4}$

fluazacortum
"nazacort

9-fluoro-11 β ,21-dihydroxy-2'-methyl-5' β H-pregna-1,4-dieno [17,16-d] oxazole-3,20-dione 21-acetate C₂₅H₃₀FNO6

gemazocinum gemazocine 3-(cyclopropylmethyl)-6-ethyl-1,2,3,4,5,6-hexahydro-11,11-dimethyl-2,6-methano-3-benzazocin-8-ol C2oH29NO

glutaralum 'utaral pentanedial *or* glutaraldehyde C5H8O2

OHC-(CH2)3-CHO

halazepamum halazepam 7-chloro-1,3-dihydro-5-phenyl-1-(2,2,2-trifluoroethyl)-2*H*-1,4-benzodiazepin-2-one C₁₇H₁₂CIF₃N₂O

halcinonidum halcinonide

21-chloro-9-fluoro-11 β ,16 α ,17-trihydroxypregn-4-ene-3,20-dione cyclic 16,17-acetal with acetone C₂₄H₃₂CIFO₅

hetaflurum hetaflur

hexadecylamine hydrofluoride C16H35N · HF or C16H36FN

H3C-(CH2)14-CH2-NH2 • HF

indapamidum indapamide

4-chloro-N-(2-methyl-1-indolinyl)-3-sulfamoylbenzamide C16H16ClN3O3S

lauroguadinum lauroguadine

1,1'-[4-(dodecycloxy)-m-phenylene]diguanidine C₂₀H₃₆N₆O

lisocillidum lisocillide

mazaticolum mazaticol 6,6,9-trimethyl-9-azabicyclo [3 . 3 . 1]non-3 β -yl di-2-thienylglycolate C₂₁H₂₇NO₃S₂

mebiquinum biquine dihydroxy(6-methyl-8-quinolinolato)bismuth C10H10BiNO3

mesabolonum mesabolone 17 β - [(1-methoxycyclohexyl)oxy}-5 α -androst-1-en-3-one C₂₅H₄₀O₃

metergotaminum metergotamine 1-methylergotamine C34H37N5O5

naltrexonum naltrexone (–)-17-(cyclopropylmethyl)-4,5 α -epoxy-3,14-dihydroxymorphinan-6-one $C_{20}H_{23}NO_4$

nicoclonatum nicoclonate p-chloro-α-isopropylbenzyl nicotinate C16H16CINO2

niprofazonum niprofazone N-[(antipyrinylisopropylamıno)methyl]nicotinamide $C_{21}H_{25}N_5O_2$

olaflurum olaflur 2,2'-[[3-[(2-hydroxyethyl)octadecylamino]propyl]imino]diethanol dihydrofluoride C27H58N2O3 · 2HF or C27H60F2N2O3

oxisopredum oxisopred 11 β ,17,21-trihydroxy-B-homo-A-norpregn-1-ene-3,6,20-trione C₂₁H₂₈O₈

/averolinum papaveroline 1-(3,4-dihydroxybenzyl)-6,7-isoquinolinediol C16H13NO4

penflutizidum penflutizide 3,4-dihydro-3-pentyl-6-(trifluoromethyl)-2*H*-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide C₁₃H₁₈F₃N₃O₄S₂

pentifyllinum pentifylline 1-hexyltheobromine C13H2oN4O2

pentoxifyllinum pentoxifylline 1-(5-oxohexyl)theobromine C13H18N4O3

pentrinitrolum pentrinitrol pentaerythritol trinitrate CsHaNaO10

peraquinsinum peraquinsin 6,7-dimethoxy-2-[2-[4-(o-methoxyphenyl)-1-piperazinyl]ethyl]-4(3H)-quinazolinone C23H2aN4O4

pretamazii iodidum pretamazium iodide 4-(4-biphenylyl)-3-ethyl-2-(p-1-pyrrolidinylstyryl)thiazolium iodide $C_{29}H_{29}IN_2S$

prodipinum prodipine

1-isopropyl-4,4-diphenylpiperidine C₂₀H₂₅N

propafenonum propafenone

2'-[2-hydroxy-3-(propylamino)propoxy]-3-phenylpropiophenone C21H27NO3

propetamidum propetamide

2-p-phenetidino-N-propylpropionamide C₁₄H₂₂N₂O₂

____micinum rosamicin 3-ethyl-7-hydroxy-2,8,12,16-tetramethyl-5,13-dioxo-9- [[3,4,6-trideoxy-3-(dimethylamino)- β -D-xylo-hexopyranosyl]oxy]-4,17-dioxabicyclo[14.1.0]heptadec-14-ene-10-acetaldehyde C₃₁H₅₁NO₉

salantelum salantel

$3^\prime\text{-chloro-}4^\prime\text{-}(p\text{-chlorobenzoyl})\text{-}3,5\text{-diiodosalicylanilide} C_{20}H_{11}Cl_2l_2NO_3$

salfluverinum salfluverine

α,α,α-trıfluoro-m-salicylotoluidide C14H10F3NO2

sulfatroxazolum sulfatroxazole

N^1 -(4,5-dimethyl-3-isoxazolyl)sulfanilamide $C_{11}H_{13}N_3O_3S$

sulglicotidum sulglicotide

the sulfuric polyester of a glycopeptide isolated from pig duodenum

tetriprofenum tetriprofen

ticarcillinum ticarcillin N-(2-carboxy-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]-hept-6-yl)-3-thiophenemalonamic acid $C_{15}H_{16}N_2O_6S_2$

timepidii bromidum timepidium bromide 3-(di-2-thienylmethylene)-5-methoxy-1,1-dimethyl-piperidinium bromide C17H22BrNOS2

timololum timolol (–)-1-(tert-butylamino)-3-[(4-morpholino-1,2,5-thiadiazol-3-yl)oxyl]-2-propanol C₁₃H₂₄N₄OfS

tolamololum tolamolol

 $\begin{array}{l} p\text{-}[2\text{-}[[2\text{-hydroxy-3-}(o\text{-tolyloxy})propyl]amino]ethoxy]benzamide \\ C_{19}H_{24}N_{2}O_{4} \end{array}$

trapıdilum trapidil 7-(diethylamino) -5-methyl-s-triazolo [1,5-a] pyrimidine C₁₀H₁₅N₅

Names for Radicals and Groups

Some substances for which a proposed international nonproprietary name has been established may be used in the form of salts or esters. The radicals or

groups involved may be of complex composition and it is then inconvenient to refer to them in systematic chemical nomenclature. Consequently, shorter non-

proprietary names for some radicals and groups have been devised or selected, and they are suggested for use with the proposed international nonproprietary names.

1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxopurine-7-propanesulfonate

teprosilate

AMENDMENTS TO PREVIOUS LISTS

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Proposed International Nonproprietary Names (Prop. I.N.N.): List 28

p.420 delete

difamizolum

difamizole

p.429 delete

renactidum renactide insert

difenamizolum difenamizole

insert

giractidum giractide

Annex

PROCEDURE FOR THE SELECTION OF RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES*

The following procedure shall be followed by the World Health Organization in the selection of recommended international nonproprietary names for pharmaceutical substances, in accordance with the World Health Assembly resolution WHA3.11:

- 1. Proposals for recommended international nonproprietary names shall be submitted to the World Health Organization on the form provided therefor.
- 2. Such proposals shall be submitted by the Director-General of the World Health Organization to the members of " Expert Advisory Panel on the Inter-
- onal Pharmacopoeia and Pharmaceutical Preparations designated for this purpose, for consideration in accordance with the "General principles for guidance in devising International Nonproprietary Names", appended to this procedure. The name used by the person discovering or first developing and marketing a pharmaceutical substance shall be accepted, unless there are compelling reasons to the contrary.
- 3. Subsequent to the examination provided for in article 2, the Director-General of the World Health Organization shall give notice that a proposed international nonproprietary name is being considered.
- A. Such notice shall be given by publication in the *Chronicle of the World Health Organization* ¹ and by letter to Member States and to national pharmacopoeia commissions or other bodies designated by Member States.
 - Notice may also be sent to specific persons known to be concerned with a name under consideration
 - B. Such notice shall:
 - (i) set forth the name under consideration,

- (ii) identify the person who submitted a proposal for naming the substance, if so requested by such person;
- (iii) identify the substance for which a name is being considered:
- (iv) set forth the time within which comments and objections will be received and the person and place to whom they should be directed:
- (v) state the authority under which the World Health Organization is acting and refer to these rules of procedure.
- C. In forwarding the notice, the Director-General of the World Health Organization shall request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the proposed name during the period it is under consideration by the World Health Organization.
- 4. Comments on the proposed name may be forwarded by any person to the World Health Organization within four months of the date of publication, under article 3, of the name in the Chronicle of the World Health Organization.
- 5. A formal objection to a proposed name may be filed by any interested person within four months of the date of publication, under article 3, of the name in the *Chronicle of the World Health Organization*.
 - A. Such objection shall:
 - (i) identify the person objecting;
 - (ii) state his interest in the name,
 - (III) set forth the reasons for his objection to the name proposed.

- 6. Where there is a formal objection under article 5, the World Health Organization may either reconsider the proposed name or use its good offices to attempt to obtain withdrawal of the objection. Without prejudice to the consideration by the World Health Organization of a substitute name or names, a name shall not be selected by the World Health Organization as a recommended international nonproprietary name while there exists a formal objection thereto filed under article 5 which has not been withdrawn.
- 7. Where no objection has been filed under article 5, or all objections previously filed have been withdrawn, the Director-General of the World Health Organization shall give notice in accordance with subsection A of article 3 that the name has been selected by the World Health Organization as a recommended international nonproprietary name.
- 8. In forwarding a recommended international nonproprietary name to Member States under article 7, the Director-General of the World Health Organization shall:
- A. request that it be recognized as the nonproprietary name for the substance; and
- B. request that Member States take such steps as are necessary to prevent the acquisition of proprietary rights in the name, including prohibiting registration of the name as a trade-mark or trade-name.
- *Text adopted by the Executive Board of WHO in resolution EB15.R7 (Off Rec. Wld Hith Org., 1955, 60, 3) and amended by the Board in resolution EB43 R9 (Off. Rec. Wld Hith Org., 1969, 173, 10)
- ¹ The title of this publication was changed to WHO Chronicle in January 1959

GENERAL PRINCIPLES FOR GUIDANCE IN DEVISING INTERNATIONAL NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES*

- 1. Names should be distinctive in sound and spelling. They should not be inconveniently long and should not be liable to confusion with names already in common use.
- 2. The name for a substance belonging to a group of pharmacologically related substances should, where appropriate, show this relationship. Names that are likely to convey to a patient an anatom-
- *Text revised by the Expert Committee on Nonproprietary Names for Pharmaceutical Substances (unpublished reports WHO/Pharm/67 443, WHO/Pharm/68.447, and WHO/Pharm/70.458)

ical, physiological, pathological or therapeutic suggestion should be avoided.

The above primary principles are to be implemented by utilization of the following secondary principles.

- 3. In devising the name of the first substance in a new pharmacological group (the parent substance), consideration should be given to the possibility of devising suitable names for related substances belonging to the new group.
- 4. In devising a name from the systematic chemical name of a substance, syllabes such as "methylhydro", "methoxy", and "chlor" should preferably be abbreviated, for example, to "medro", "meto", and "clo"; the derived name should not be chemically misleading.
- 5. In devising names for acids, oneword names are preferred; their salts should be named without modifying the acid name, e.g., "oxacillin" and "oxacillin sodium", "ibufenac" and "ibufenac sodium". The salts of acids

having two-word names such as " nicotinic acid " should be named in the usual style, e.g., " sodium nicotinate".

6. Names for substances which are used as salts should in general apply to the active base (or the active acid). Names for different salts or esters of the same active substance should differ only in respect of the name of the inactive acid (or the inactive base). Exceptions may have to be made for those cases in which pharmacological activity may reside in both parts of the salt or ester.

For quaternary ammonium substances, the cation and anion should be named appropriately as separate components of a quaternary substance and not in the amine-salt style.

- The use of an isolated letter or number should be avoided; hyphenated construction is also undesirable.
- 8. To facilitate translation and pronunciation "f" should preferably be used instead of "ph", "t" instead of "th", "e" instead of "ae" or "oe", and "i" instead of "y".

- 9. Provided that the names suggested are in accordance with these principles, names proposed by the person discovering or first developing and marketing a pharmaceutical preparation, or names already officially in use in any country, should receive preferential consideration.
- 10. Group relationship in names (see item 2) should preferably be shown by using common syllables in the following list. Where a syllable or a group of syllables is shown without any hyphens it may be used anywhere in the name. The syllable, or group of syllables, should, if possible, be used only for such substances.

Subsidiary group relationships should be shown by devising names which show similarities to and are analogous with a previously named substance, the parent substance.

At the end of the list are gene... chemical syllables. Should they come into conflict with other suggested syllables, the suffix conveying the best information should be used.

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Latin
              English
                           French
  -actidum
              -actide
                           -actide
                                            synthetic polypeptides with a corticotrophin-like action
  -andr-
              -andr-
                           -andr-
  or -stan-
              or -stan-
                          or -stan-
                                              steroids, androgenic
  or -ster-
              or -ster-
                          or -ster-
  -arolum
              -arol
                          -arol
                                            anticoagulants of the coumarin type
  -bamatum
              -bamate
                                            tranquillizers of the propanediol and pentanediol series
                          -bamate
  barb
              barb
                          barb
                                            barbituric acids, hypnotic activity
  bol
              bal
                          bol
                                            anabolic steroids
  -cainum
              -caine
                          -caine
                                            local anaesthetics
 cef-
              cef-
                          céf-
                                            antibiotics with cefalosporanic acid nucleus
 -cillinum
              -cillin
                          -cılline
                                            penicillins: derivatives of 6-amino-penicillanic acid
 cort
             cart
                          cort
                                            steroids, glucocorticoids and mineralocorticoids, other than prednisolone
 -crinum
             -crine
                          -crine
                                            acridine derivatives
 -curium
             -curium
                          -curium
                                            curare-like drugs
 -cyclinum
             -cycline
                          -cycline
                                           antibiotics, tetracycline derivatives
 -estr-
              -estr-
                          -estr-
                                           estrogenic drugs
 -forminum -formin
                         -formine
                                           guanidine oral antidiabetics
 gest
             gest
                         gest
                                           steroids, progestative
 gli-
             gli-
                         gli-
                                           sulfonamide oral antidiabetics
 io-
             ia-
                         ia-
                                           iodine-containing contrast media
 -moxinum
            -moxin
                         -moxine
                                           monoamine oxidase inhibitors
 -mycinum
             -mycin
                         -mycine
                                           antimicrobial antibiotics, produced by Streptomyces strains
กเfur-
             nifur-
                         nifur-
                                           5-nitrofuran derivates
-oлidum
             -onide
                         -onide
                                           steroids for topical use: acetal derivatives
-orexum
             -orex
                         -orex
                                           anorexigenic agents
-praminum -pramine
                         -pramine
                                          dibenzazepine, compounds of the imipramine type
prost
            prost
                         prost
                                           prostagiandins
-serpinum
            -serpine
                         -serpine
                                           derivatives of Rauwolfia alkaloids
sulfa-
            sulfa-
                         sulfa-
                                          sulfonamides, used as antimicrobials
-terolum
            -teral
                         -térol
                                          bronchodilators: phenethylamine derivatives
-tizidum
            -tizide

    tizide

                                          diuretics which are thiazide derivatives
-toinum
            -toin
                        -toine
                                          antiepileptics which are hydantoin derivatives
-verinum
            -verine
                        -vérine
                                          spasmolytics with a papaverine-like action
-inum
            -ine
                        -ine
                                          alkaloids and organic bases
-onum
            -one
                        -One
                                          ketones
-ium
            -ium
                        -ium
                                          quaternary ammonium compounds
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