Supplement to WHO Chronicle, 1980, Vol. 34, No 3 (March)

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, notice is hereby given that the following names are under consideration by the World Health Organization as Proposed Internal 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, e.g. for List 43 Prop. INN not later than 31 July 1980.

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. INN): List 432

| Proposed International | Nonproprietary Name (Latin, English) Chemical Name or Description, Molecular and Graphic Formulae Chemical Abstracts Service (CAS) registry number

aclatonii napadisilas aclatonium napadisilate choline 1,5-naphthalenedisulfonate (2·1), dilactate, diacetate C₃₀H₄₆N₂O₁₄S₂ 55077-30-0

Comprehensive information on the INN programme can be found in WHQ Technical Report Series, No. 581, 1975 (Nonproprietary Names for Pharmaceutical Substances Twentieth Report of the WHQ Expert Committee), ISBN 92-4-120581-4 (price Sw. fr. 6...); an account of this publication will be found in page 21 of this Supplement (Annex 2). All names from Lists 1-37 of Proposed International Nonproprietary Names, together with a molecular formula index, will be found in International Nonproprietary Names for Pharmaceutical Substances Cumulative list No. 5, 1977, World Health Organization, Geneva, 1977 (ISBN 92-4-056011-4) (price: Sw. fr. 48...). This publication consists, in the main, of a computer printout which groups together all the proposed and recommended international nonproprietary names (INN)-in Latin, English, French, Russian, and Spanish-published up to March 1977. The printout also indicates in which of the 37 individual lists of proposed names and 16 lists of recommended names, each INN was originally published, and gives references to national nonproprietary names, pharmacopoeia monographs, and other sources. In addition, the list contains molecular formulae and Chemical Abstracts Service registry numbers. For easy reference, national nonproprietary names that differ from INN, molecular formulae, and Chemical Abstracts Service registry numbers are indexed in a series of annexes. A final annex describes the procedure for selecting recommended INN and putlines the general principles to be followed in devising these names. All the textual material published in this volume appears in both English and French.

These publications may be obtained, direct or through booksellers, from the sales agents listed on the back cover of the WHO Chronicle Orders from countries where sales agents have not yet been appointed may be addressed to. World Health Organization, Distribution and Sales Service, 1211 Geneva 27, Switzerland.

1 See Annex 1, p 20

² Other lists of proposed international nonproprietary names can be found in Chron. Wld Hlth Org., 1953, 7, 299; 1954, 8, 216, 313; 1956, 10, 28, 1957, 11, 231; 1958, 12, 102, WHO Chronicle, 1959, 13, 105, 152; 1960, 14, 168, 244. 1961, 15, 314, 1962, 16, 385, 1963, 17, 389; 1964, 18, 433, 1965, 19, 446; 1966, 20, 216; 1967, 21, 70, 478, 1968, 22, 112, 407; 1969, 23, 183, 418, 1970, 24,

119, 413; 1971, 25, 123, 415; 1972, 26, 121, 414; 1973, 27, 120, 330; 1974, 28, 133, supplements to WHO Chronicle, 1974, Vol. 28, No. 9, 1975, Vol. 29, No. 3, No 9; 1976, Vol. 30, No 3, No. 9; 1977, Vol. 31, No. 3, No 9; 1978, Vol. 32, No. 3, No. 9, 1979, Vol. 33, No. 3, No. 9, 1979, Vol. 33, No. 3, No. 9

Lists or recommended international nonproprietary names were published

in Chron Wld Hlth Org., 1955, 9, 185; WHO Chronicle, 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; 1973, 27, 453; supplements to WHO Chronicle, 1974, Vol. 28, No. 10, 1975, Vol. 29, No. 10, 1976, Vol. 30, No. 10; 1977, Vol. 31, No. 10; 1978, Vol. 31, No. 10; 1978, Vol. 33, No. 10.

acrihellinum acrihellin

 3β ,5,14-trihydroxy-19-oxo- 5β -bufa-20,22-dienolide 3-(3-methylcrotonate) C₂₉H₃₈O₇ 67696-82-6

afloqualonum afloqualone 6-amino-2-(fluoromethyl)-3-o-tolyl-4(3H)-quinazolinone C₁₀H₁₄FN₃O 56287-74-2

alfentanilum alfentanil $N-[1-[2-(4-\text{ethyl-}5-\text{oxo-}2-\text{tetrazolin-}1-\text{yl})\text{ethyl}]-4-(\text{methoxymethyl})-4-piperidyl]propionanılide $C_21H_{32}N_6O_3$ 71195-58-9$

$$H_5C_2$$
 $N=N$ $(CH_2)_2$ N CC_2H_5 CC_2H_5 CH_2OCH_3

aliconazolum aliconazole (Z)-1-[2,4-dichloro- β -(p-chlorophenyl)cınnamyl]ımidazole CıııHı $_{12}$ Clı $_{13}$ N $_{2}$ 63824-12-4

alizapridum alizapride N-[(1-allyl-2-pyrrolidinyl)methyl]-6-methoxy-1H-benzotriazole-5-carboxamide C₁₆H₂₁N₅O₂ 59338-93-1

almasilatum almasilate magnesium aluminosilicate (MgAl $_2$ Si $_2$ O $_8$) hydrate Al $_2$ MgO $_8$ Si $_2$ ×H $_2$ O 71205-22-6

benzquercinum benzquercin 3,3',4',5,7-pentakis(benzyloxy)flavone C₅0H40O₁ 13157-90-9

bicifadinum bicifadine

)

(±)-1-p-tolyl-3-azabicyclo[3.1.0]hexane C₁₂H₁₅N 71195-57-8

bremazocinum bremazocine

•)

6-ethyl-1,2,3,4,5,6-hexahydro-3-[(1-hydroxycyclopropyl)methyl]-11,11-dimethyl-2,6-methano-3-benzazocın-8-ol $$C_{20}H_{29}NO_2$ 71990-00-6$

broclepridum broclepride 4-amino-5-bromo-N-[1-(p-chlorobenzyl)-4-piperidyl]-o-anisamide $C_{20}H_{23}BrClN_3O_2$ 71195-56-7

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

bromofenofosum bromofenofos

3,3′,5,5′-tetrabromo-2,2′-biphenyldiol mono(dihydrogen phosphate) $C_{12}H_7B_7AO_5P$ 21466-07-9

bucindololum bucindolol o-[2-hydroxy-3-[(2-indol-3-yl-1,1-dimethylethyl)amino]propoxy]benzonitrıle C₂²H₂₅N₃O₂ 71119-11-4

butopaminum^{*} butopamine (R)-p-hydroxy- α -{[[(R)-3-(p-hydroxyphenyl)-1-methylpropyl]amino]-methyl]benzyl alcohol C₁₀H₂₃NO₃ 66734-12-1

ceftioxidum ceftioxide (5S,6R,7R)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid 7^2 -(Z)-(O-methyloxime), acetate (ester), 5-oxide $C_{16}H_{17}N_5O_8S_2$ 71048-88-9

cianidolum cianidol (+)-catechol *or* (2*R*,3*S*)-3,3′,4′,5,7-flavanpentol C₁₅H₁₄O₅ 154-23-4

demexiptilinum demexiptiline

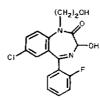
5H-dibenzo[a,d]cyclohepten-5-one O-[2-(methylamino)ethyl]oxime $C_{10}H_{10}N_2O$ 24701-51-7

desglugastrinum desglugastrin N-(4-carboxybutyryl)-L-alanyl-L-tyrosylglycyl-L-tryptophyl-L-leucyl-L-α-aspartylphenyl-L-alaninamide
C49H61N9O13
51987-65-6

HOOC-(CH2)3-CO-L-Ala-L-Tyr-Gly-L-Trp-L-Leu-L-Asp-L-Phe-NH2

disofeninum disofenin [[[(2,6-diisopropylphenyl)carbamoyl]methyl]imino]diacetic acid $C_{18}H_{28}N_2O_5$ 65717-97-7

doxefazepamum doxefazepam 7-chloro-5-(o-fluorophenyl)-1,3-dihydro-3-hydroxy-1-(2-hydroxyethyl)-2H-1,4-benzodiazepin-2-one C₁₇H₄₄CIFN₂O₃ 40762-15-0



dulofibratum dulofibrate p-chlorophenyl 2-(p-chlorophenoxy)-2-methylpropionate C₁₆H₁₄Cl₂O₃ 61887-16-9

elliptimi acetas elliptimum acetate

9-hydroxy-2,5,11-trimethyl-6*H*-pyrido[4,3-*b*]carbazolium acetate C₂₀H₂₀N₂O₃ 58337-35-2

enciprazinum enciprazine

(\pm)-4-(o-methoxyphenyl)- α -[(3,4,5-trimethoxyphenoxy)methyl]-1-piperazineethanol C₂₃H₃₂N₂O₈ 68576-86-3

ethylis carfluzepas ethyl carfluzepate ethyl 7-chloro-5-(*o*-fluorophenyl)-2,3-dihydro-1-(methylcarbamoyl)-2-oxo-1*H*-1,4-benzodiazepine-3-carboxylate C₂₀H₁₇CIFN₃O₄ 65400-85-3

ethylis loflazepas ethyl loflazepate ethyl 7-chloro-5-(o-fluorophenyl)-2,3-dihydro-2-oxo-1*H*-1,4-benzodiazepine-3-carboxylate
C₁₉H₁₄CIFN₂O₃ 29177-84-2

etifeninum etifenin

[[[(2,6-diethylphenyl)carbamoyl]methyl]imino]diacetic acid $C_{16}H_{22}N_2O_5$ 63245-28-3

fibrafyllinum fibrafylline 2-(ρ -chlorophenoxy)-2-methylpropyl 1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxopurine-7-acetate C₁₉H₂₁ClN₄O₅ 70788-27-1

Crolinum Foline (\pm)-8-fluoro- α ,5-bis(p-fluorophenyl)-1,3,4,5-tetrahydro-2H-pyrido[4,3-b]indole-2-butanol C₂₇H₂₅F₃N₂O 70801-02-4

giparmenum giparmen 4-methyl-7-(2-propynyloxy)coumarin C₁₃H₁₀O₃ 67268-43-3

sindamidum glisindamide

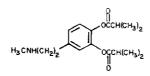
1-cyclohexyl-3-[[p-[2-(1-oxo-2-isomdolinecarboxamido)ethyl]-phenyl]sulfonyl]urea C₂₄H₂₄N₄O₅S 71010-45-2

glisolamidum glisolamide 1-cyclohexyl-3-[[ρ -[2-{5-methyl-3-isoxazolecarboxamido}ethyl]-phenyl]sulfonyl]urea $C_{20}H_{26}N_4O_5S$ 24477-37-0

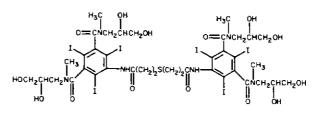
halofantrinum halofantrine 1,3-dichloro- α -[2-{dibutylamino}ethyl]-6-{trifluoromethyl}-9-phenanthrene-methanol C20H ∞ Cl2F3NO 69756-53-2

ibopaminum ibopamine

4-[2-(methylamino)ethyl]-o-phenylene diisobutyrate C₁₇H₂₅NO₄ 66195-31-1

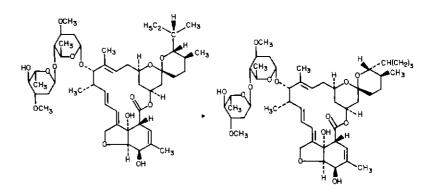


iohexolum iohexol iotasulum iotasul 5,5'-[thiobis(ethylenecarbonylimino)]bis[N,N'-bis(2,3-dihydroxypropyl)-2,4,6-triiodo-N,N'-dimethylisophthalamide] C34H50l6N $_5$ O14S 71767-13-0



ivermectinum ivermectin

a mixture of components I and II 70288-86-7 component I: 5-O-demethyl-22,23-dihydroavermectin A_{1a} or (2-aE,4E,8E)-(5'S,6S,6'R,7S,11R,13R,15S,17aR,20R,20aR,20bS)-6'-(S)-secbutyl-3',4',5',6,6',7,10,11,14,15,17a,20,20a,20b-tetradecahydro-20,20b-dihydroxy-5',6,8,19-tetramethyl-17-oxospiro[11,15-methano-2H,13H,17Hfuro[4,3,2-pq][2,6]benzodioxacyclooctadecin-13,2'-[2H]pyran]-7-yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl- α -L-arabino-hexopyranosyl)-3-O-methyl- α -Larabino-hexopyranoside C48H74O14 70161-11-4 component II: 5-O-demethyl-25-de(1-methylpropyl)-22,23-dihydro-25-(1-methylethyl)avermectin A_{1a} or (2aE,4E,8E)-(5'S,6S,6'R,7S,11R,13R,15S,17aR,20R,20aR,20bS)-3',4',5',6,6',7,10,11,14,15,17a,20,20a,20b-tetradecahydro-20,20b-dihydroxy-6'isopropyl-5',6,8,19-tetramethyl-17-oxospiro[11,15-methano-2H,13H,17H,furo[4,3,2-pq][2,6]benzodioxacyclooctadecin-13,2'-[2H]pyran-7-yl 2,6-dideoxy-4-O-(2,6-dideoxy-3-O-methyl- α -L-arabino-hexopyranosyl)-3-O-methyl- α -Larabino-hexopyranoside C47H72O14 70209-81-3



levonantradolum levonantradol



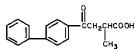
(-)-{6*S*,6a*R*,9*R*,10a*R*}-5,6,6a,7,8,9,10,10a-octahydro-6-methyl-3-[(*R*)-1-methyl-4-phenylbutoxy]-1,9-phenanthridinediol 1-acetate $C_{27}H_{25}NO_4$ 71048-87-8

lofentanilum lofentanil (—)-methyl cis-3-methyl-1-phenethyl-4-(N-phenylpropionamido)isonipecotate $C_{25}H_{32}N_2O_3$ 61380-40-3

loprodiolum loprodiol 2,2-bis(chloromethyl)-1,3-propanediol $C_6H_{10}Cl_2O_2$ 2209-86-1

medroxalolum medroxalol metaterolum metaterol m-hydroxy- α -[(isopropylamino)methyl]benzyl alcohol C₁₁H₁₇NO₂ 3571-71-9

metbufenum metbufen 3-(4-biphenylylcarbonyl)-2-methylpropionic acid C₁₇H₁₆O₃ 63472-04-8



mobenzoxaminum mobenzoxamine 4'-fluoro-4-[4-[2-[(ρ -methoxy- α -phenylbenzyl)oxy]ethyl]-1-piperazinyl]-butyrophenone C₃₀H₃₅FN₂O₃ 65329-79-5

nicoboxilum nicoboxil 2-butoxyethyl nicotinate C₁₂H₁₇NO₂ 13912-80-6

nonivamidum nonivamide N-vanillylnonamide C₁₇H₂₇NO₃ 2444-46-4

octapinolum octapinol 4-(2-propylpentyl)-1-piperidineethanol C₁₅H₃₁NO 71138-71-1

octenidinum enidine 1,1'-decamethylenebis[1,4-dihydro-4-(octylimino)pyridine] $C_{30}H_{62}N_4$ 71251-02-0

oxiracetamum oxiracetam $\begin{array}{lll} \mbox{4-hydroxy-2-oxo-1-pyrrolidineacetamide} \\ \mbox{C}_6\mbox{H}_{10}\mbox{N}_2\mbox{O}_3 & \mbox{62613-82-5} \end{array}$

pepleomycinum pepleomycin $\begin{array}{lll} \textit{N1-[3-[[(S)-\alpha-methylbenzyl]amino]propyl]$bleomycinamide} \\ \textit{C$_{61}$H$_{46}$N$_{16}$O$_{21}$S$_2} & 68247-85-8 \end{array}$

peralopridum peralopride 1-(4-amino-5-chloro-*o*-anisoyl)-4-piperonylpiperazine C₂₀H₂₂ClN₃O₄ 57083-89-3

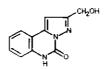
pirazolacum pirazolac 4-(p-chlorophenyl)-1-(p-fluorophenyl)pyrazole-3-acetic acid C₁₇H₁₂ClFN₂O₂ 71002-09-0

piridicillinum piridicillin $\begin{array}{ll} \{2S,5R,6R\}\text{-}6\text{-}[\{R\}\text{-}2\text{-}[6\text{-}[\rho\text{-}[bis(2\text{-hydroxyethyl})sulfamoyl]phenyl}]\text{-}1,2\text{-}dihydro-2-oxonicotinamido}]\text{-}2\text{-}(\rho\text{-hydroxyphenyl})acetamido}]\text{-}3,3\text{-}dimethyl-7-oxo-4-thia-1-azabicyclo}[3.2.0]heptane-2-carboxylic acid $C_{32}H_{35}N_5O_{11}S_2$ & 69414-41-1 \end{array}$

piroctonum piroctone 1-hydroxy-4-methyl-6-(2,4,4-trimethylpentyl)-2(1*H*)-pyridone C₁₄H₂₃NO₂ 50650-76-5

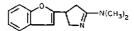
pirquinozolum pirquinozol

2-(hydroxymethyl)pyrazolo[1,5-c]quinazolin-5(6H)-one C₁₁H₉N₃O₂ 65950-99-4



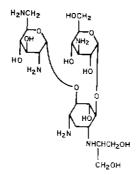
pridefinum pridefine 3-(diphenylmethylene)-1-ethylpyrrolidine C₁₉H₂₁N 5370-41-2

prifurolinum prifuroline 4-(2-benzofuranyl)-2-(dimethylamino)-1-pyrroline C₁4H₁sN₂O 70833-07-7



propikacinum propikacin

O-3-amino-3-deoxy- α -D-glucopyranosyl(1 → 4)-*O*-[2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl(1 → 6)]-2-deoxy-N3-[2-hydroxy-1-(hydroxymethyl)ethyl]-L-streptamine C₂₁H₄₂N₅O₁₂ 66887-96-5



prosulpridum prosulpride

N-[(1-propyl-2-pyrrolidinyl)methyl]-5-sulfamoyl-o-anisamide C_{1e}H₂₅N₃O₄S 68556-59-2

$$\begin{array}{c|c} & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

proxorphanum proxorphan

(-)-(4aR,5R,10bS)-13-(cyclopropylmethyl)-4,4a,5,6-tetrahydro-3H-5,10b-(iminoethano)-1H-naphthp[1,2-c]pyran-9-ol C₁₉H₂₅NO₂ 69815-38-9

rifapentinum rifapentine sitoglusidum sitogluside

 3β -(β -D-glucopyranosyloxy)stigmast-5-ene C₃₅H₈₀O₆ 474-58-8

somatostatinum somatostatin growth hormone-release inhibiting factor: L-alanylglycyl-L-cysteinyl-L-lysyl-L-asparaginyl-L-phenylalanyl-L-phenylalanyl-L-tryptophyl-L-lysyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-cysteine cyclic $(3 \rightarrow 14)$ disulfide $C_{76}H_{104}N_{16}O_{19}S_2$ 38916-34-6

soquinololum soquinolol

(á()

5-[3-(*tert*-butylamino)-2-hydroxypropoxy]-3,4-dihydro-2(1*H*)-isoquinolinecarboxaldehyde C₁₇H_{2*}N₂O₃ 61563-18-6

spirogermanium spirogermanium 2-[3-(dimethylamino)propyl]-8,8-diethyl-2-aza-8-germaspiro[4.5]decane C₁₇H₂₆GeN₂ 41992-23-8

$$H_5C_2$$
 G_6 $N-(CH_2)_3N(CH_3)_3$

sulbutiaminum sulbutiamine



N,N'-[dithiobis[2-{2-hydroxyethyl}-1-methylvinylene]]bis[N-[{4-amino-2-methyl-5-pyrimidinyl}methyl]formamide] disobutyrate (ester) $C_{32}H_{40}N_8O_6S_2$ 3286-46-2

sulmepridum sulmepride N-[(1-methyl-2-pyrrolidinyl)methyl]-5-sulfamoyl-o-anisamide $C_{14}H_{21}N_3O_4S$ 57479-88-6

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

suriclonum suriclone 4-methyl-1-piperazinecarboxylic acid ester with (\pm)-6-(7-chloro-1,8-naphthyridin-2-yl)-2,3,6,7-tetrahydro-7-hydroxy-5H-p-dithino[2,3-c]pyrrol-5-one C₂₀H₂₀ClN₅O₃S₂ 53813-83-5

talosalatum talosalate

phthalidyl salicylate, acetate or salicylic acid acetate, ester with 3-hydroxyphthalide $C_{17}H_{12}O_6$ 66898-60-0

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tamitinolum tamitinol 4-[(ethylamino)methyl]-2-methyl-5-[{methylthio}methyl]-3-pyridinol $C_{11}H_{12}N_2OS$ 59429-50-4

teoprololum teoprolol

7-[3-[[2-hydroxy-3-[(2-methylindol-4-yl)oxy]propyl]amino]butyl]theophylline $C_{23}H_{20}N_{6}O_{4}$ 65184-10-3



tıflamizolum tiflamizole 4,5-bis(ρ -fluorophenyl)-2-[(1,1,2,2-tetrafluoroethyl)sulfonyl]imidazole $C_{17}H_{10}F_6N_2O_2S$ 62894-89-7

tizanidinum tizanidine 5-chloro-4-(2-imidazolin-2-ylamino)-2,1,3-benzothiadiazole C₃H₄CłN₅S 51322-75-9

triaconazolum triaconazole

()

 $\begin{array}{ll} \textit{cis-1-[p-[[2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-4-isopropylpiperazine \\ C_{26}H_{31}Cl_2N_5O_3 & 67915-31-5 \end{array}$

veralipridum veralipride N-[(1-allyl-2-pyrrolidinyl)methyl]-5-sulfamoyl-<math>o-veratramide C₁₇H₂₅N₃O₅S 66644-81-3

verofyllinum verofylline (\pm)-1,8-dimethyl-3-(2-methylbutyl)xanthine C₁₂H₁₈N₄O₂ 66172-75-6



H₃C H₂CH₂H₅

zapizolamum zapizolam 8-chloro-6-{o-chlorophenyl}-4H-pyrido[2,3-f]-s-triazolo[4,3-a][1,4]diazepine C₁₉H₃Cl₂N₅ 64098-32-4

zoficonazolum zoficonazole 1-[2,4-dichloro- β -[3-(p-chlorophenoxy)propoxy]phenethyl]imidazole C₂₀H₁₉Cl₃N₂O₂ 71097-23-9

AMENDMENTS TO PREVIOUS LISTS

Cumulative List No. 5, 1977

International Nonproprietary Names (INN) for Pharmaceutical Substances:

p. 194 delete

taurolinum taurolin insert

taurolidinum taurolidine

Supplement to Vol. 33, No. 3

Proposed International Nonproprietary Names (Prop. INN): List 41

p. 6 deléte

halogabidum halogabide insert

progabidum progabide

ketoconazolum ketoconazole

Complete chemical name by preceeding it by (\pm) -

p. 13 delete

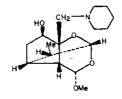
sulmetozinum sulmetozine insert

tritiozinum tritiozine

p. 15 valperinolum

valperinol

Replace the graphic formula by:



Supplement to Vol. 33, No. 9

Proposed International Nonproprietary Names (Prop. INN): List 42

p. 4 bornelonum bornelone Insert ")" after "...ylidene"; replace CAS registry No. by: 2226-11-1

brovincaminum brovincamine

Replace chemical name by: 11-bromovincamine

p. 14 oltiprazum oltipraz eplace "32-thione" in the chemical name by "3-thione"

p. 15 pirmenolum pirmenol

Replace "2,5-dimethyl" in the chemical name by "2,6-dimethyl"

p. 17 trientinum trientine

Delete ".2HCI" from the graphic formula

p. 18 delete

insert

verocaininum verocainine tiapamilum tiapamil

Аплех 1

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:

- 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 the Expert Advisory Panel on the International Pharmacopoeia 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.
 - (i) 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 pously filed have been withdrawn, 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 Winnesolution EB15 R7 (Off. Rec. Wid Hith 1955, 60, 3) and amended by the Board in respective EB43.R9 (Off. Rec. Wid Hith Org., 1969, 173, 10).
- 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. International Nonproprietary Names (INN) should be distinctive in sound and spelling. They should not be inconveniently long and should not be liable to confusion with names in common use.
- 2. The INN 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 anatomical, physiological,

pathological or therapeutic suggestion should be avoided.

These primary principles are to be implemented by using the following secondary principles

- 3. In devising the INN of the first substance in a new pharmacological group, consideration should be given to the possibility of devising suitable INN for related substances, belonging to the new group.
- 4. In devising INN for acids, one-word names are preferred; their salts should be named without modifying the acid name, e.g. "oxacillin" and "oxacillin sodium", "ibufenac" and "ibufenac sodium".
- 5. INN 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.

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

- The use of an isolated letter or number should be avoided; hyphenated construction is also undesirable.
- 7. To facilitate the translation and pronunciation of INN, "f" should be

used instead of "ph", "t" instead of "th", "e" instead of "ae" or "oe", and "i" instead of "y"; the use of the letters "h" and "k" should be avoided.

8. 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. 9. Group relationship in INN (see Guiding Principle 2) should if possible be shown by using a stem from the following list. The stem should only be used for substances of the appropriate group. Where a stem is shown without any hyphens it may be used anywhere in the name.

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

Latin	English	French	
-actidum	-actide	-actide	synthetic polypeptides with a corticotrophin-like action
andr	andr	andr	steroids, androgens
-arolum	-arol	-arol	anticoagulants of the dicoumarol group
- <u>a</u> zepamum	-azepam	-azepam	substances of the diazepam group
	bol	bol	steroids, anabolic
azonum	-buzone	-buzone	anti-inflammatory analgesics of the phenylbutazone group
-cainum	-caine	-caĭne	local anaesthetics
cef-	cef-	céf-	antibiotics, derivatives of cefalosporanic acid
-cillinum	-cillin	-cilline	antibiotics, derivatives of 6-aminopenicillanic acid
cort	cort	cort	corticosteroids, except those of the prednisolone group
-cyclinum	-cycline	-cycline	antibiotics of the tetracycline group
estr	estr	estr	estrogenic substances
-fibratum	-fibrate	-fibrate	substances of the clofibrate group
-forminum	-formin	-formine	hypoglycemics of the phenformin group
gest	gest	gest	steroids, progestogens
gli-	gli-	gli-	sulfonamide hypoglycemics
io-	io-	io-	iodine-containing contrast media
-ium	-ium	-ium	quaternary ammonium compounds
-metacinum		-métacine	anti-inflammatory substances of the indometacin group
-mycinum	-mycin	-mycine	antibiotics, produced by Streptomyces strains
-nidazolum	-nidazole	-nidazole	antiprotozoal substances of the metronidazole group
-ololum	-olol	-olol	β-adrenergic blocking agents of the propranolol group
-onidum	-onide	-onide	steroids for tropical use, containing an acetal group
-orexum	-orex	-orex	anorexigenic agents, phenethylamine derivates
-praminum	-pramine	-pramine	substances of the impramine group
-profenum	-profen	-profène	anti-inflammatory substances of the ibuprofen group
prost	prost	prost	prostaglandins
-relinum	-relin	-réline	hypophyseal hormone release-stimulating peptides
sulfa-	sulfa-	sulfa-	sulfonamides, anti-infective
-terolum	-terol	-térol	bronchodilators, phenethylamine derivates
ૂ 'sidum	-tizide	-tizide	diuretics of the chlorothiazide group
rinum	-verine	-vérine	spasmolytics with a papaverine-like action

Annex 2 NONPROPRIETARY NAMES FOR PHARMACEUTICAL SUBSTANCES: TWENTIETH REPORT OF THE WHO EXPERT COMMITTEE

in its twentieth report¹ the WHO Expert Committee on Nonproprietary Names for Pharmaceutical Substances reviewed the general principles for devising, and the procedures for selecting, international nonproprietary names (INN) in the light of developments in pharmaceutical compounds in recent years. The most significant recent change has been the extension to the naming of synthetic chemical substances of the practice previously used for substances originating in or derived from

natural products. This practice involves employing a characteristic "stem" indicative of a common property of the members of a group. The reasons for, and the implications of, the change are fully discussed. Also reported is the intention to change the practice with regard to the nomenclature of individual members of polymeric series.

Other sections of the report concern instructions to be followed by bodies making application for international nonproprietary names, the

availability of computer-printed cumulative lists of international nonproprietary names, information supplied by WHO Member States concerning their official use of national or international names for pharmaceutical products, and proposals relative to the withdrawal of international non-proprietary names allocated to substances that are no longer in use.

The official texts relating to the procedures for selecting, and general guidance for devising, international nonproprietary names are reproduced

in two annexes to the report. Other annexes give examples of international nonproprietary names that incorporate selected stems, the most frequently used initial groups of letters in international nonproprietary names, a historical review of the programme of selecting international nonproprietary names, some useful literature references, and a model of the form to be used in all applications for international nonproprietary names.

¹ WHO Technical Report Series, No. 581, 1975 (Nonproprietary Names for Pharmaceutical Substances Twentieth Report of the WHO Expert Committee), ISBN 92 4 120581 4, Price: Sw. fr. 6.—