

International Nonproprietary Names for Pharmaceutical Substances

In accordance with paragraph 7 of the Procedure for the Selection of Recommended International Nonproprietary Names for Pharmaceutical Sub-

stances,¹ notice is hereby given that the following are selected as recommended international nonproprietary names.

The inclusion of a name in the

lists of recommended international nonproprietary names does not imply any recommendation for the use of the substance in medicine or pharmacy.

Recommended International Nonproprietary Names (Rec. INN): List 24

Recommended International
 Nonproprietary Name (Latin, English)

Chemical Name or Description and Molecular Formulae

acidum acetohydroxamicum
 acetohydroxamic acid

acetohydroxamic acid
 $C_2H_5NO_2$

acidum gadopenteticum
 gadopentetic acid

dihydrogen $[N,N$ -bis[2-[bis(carboxymethyl)amino]ethyl]glycinato(5-)]-
 gadolinate(2-)
 $C_{14}H_{20}GdN_3O_{10}$

acidum octanoicum
 octanoic acid

octanoic acid
 $C_8H_{16}O_2$

acifranum
 acifran

($\pm$)-4,5-dihydro-5-methyl-4-oxo-5-phenyl-2-furoic acid
 $C_{12}H_{10}O_4$

acrivastinum
 acrivastine

(*E*)-6-[(*E*)-3-(1-pyrrolidinyl)-1-*p*-tolylpropenyl]-2-pyridineacrylic acid
 $C_{22}H_{24}N_2O_2$

ademetoninum
 ademetonine

(*S*)-5'-[(3-amino-3-carboxypropyl)methylsulfonio]-5'-deoxyadenosine
 hydroxide, inner salt
 $C_{15}H_{22}N_6O_5S$

aganodinum
 aganodine

(4,7-dichloro-2-isoindoliny)guanidine
 $C_9H_{10}Cl_2N_4$

alaceprilum
 alacepril

N-[1-[(*S*)-3-mercapto-2-methylpropionyl]-*L*-prolyl]-3-phenyl-*L*-alanine acetate
 (ester)
 $C_{20}H_{26}N_2O_5S$

alifedrinum
 alifedrine

1-cyclohexyl-3-[[(α *S*, β *R*)- β -hydroxy- α -methylphenethyl]amino]-1-propanone
 $C_{18}H_{27}NO_2$

allylthiourea
 allylthiourea

1-allyl-2-thiourea
 $C_4H_6N_2S$

altanserinum
 altanserin

3-[2-[4-(*p*-fluorobenzoyl)piperidino]ethyl]-2-thio-2,4(1*H*,3*H*)-quinazolin-1-one
 $C_{22}H_{22}FN_3O_2S$

ambicromilum
 ambicromil

4,6-dioxo-10-propyl-4*H*,6*H*-benzo[1,2-*b*:5,4-*b'*]dipyr-2,8-dicarboxylic acid
 $C_{17}H_{12}O_8$

¹ *Off. Rec. Wld Hlth Org.*, 1955, 60, 3 (Resolution EB15.R7); 1969, 1973, 10 (Resolution EB43.R9).

² Other lists of recommended international nonproprietary names can be found in *Chron. Wld Hlth Org.*, 1955,

9, 185; *WHO Chronicle*, 1959, 13, 106, 463, 1962, 16, 101; 1965, 19, 165, 206, 249; 1966, 20, 221; 1967, 21, 538, 1968, 22, 463; 1969, 23, 490; 1970, 24, 126; 1971, 25, 476; 1972, 26, 476; 1973, 27, 253; 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. 32, No. 10; 1979, Vol. 33, No. 10; 1980, Vol. 34, No. 10; Vol. 35, No. 5; Vol. 36, No. 6; Vol. 37, No. 6.

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amflutizolum amflutizole	4-amino-3-(<i>a,a,a</i> -trifluoro- <i>m</i> -tolyl)-5-isothiazolecarboxylic acid C ₁₁ H ₇ F ₃ N ₂ O ₂ S
amifloxacinum amifloxacin	6-fluoro-1,4-dihydro-1-(methylamino)-7-(4-methyl-1-piperazinyl)-4-oxo-3-quinolinecarboxylic acid C ₁₈ H ₁₈ FN ₄ O ₃
amosulalolum amosulalol	(±)-5-[1-hydroxy-2-[[2-(<i>o</i> -methoxyphenoxy)ethyl]amino]ethyl]- <i>o</i> -toluenesulfonamide C ₁₈ H ₂₄ N ₂ O ₅ S
aprotininum aprotinin	Arg-Pro-Asp(tentative)-Phe-HCys-Leu-Glu(tentative)-Pro-Pro-Tyr-Thr-Gly-Pro-HCys-Lys-Ala-Arg-Ileu-Ileu-Arg-Tyr-Phe-Tyr-AspN-Ala-Lys-Ala-Gly-Leu-HCys-GluN-Thr-Phe-Val-Tyr-Gly-Gly-HCys-Arg-Ala-Lys-Arg-AspN-AspN-Phe-Lys-Ser-Ala-Glu-AspN-HCys-Met-Arg-Thr-HCys-Gly-Gly-Ala C ₂₈₄ H ₄₄₀ N ₈₈ O ₇₇ S ₇ (tentative)
aptazapinum aptazapine	(±)-1,3,4,14b-tetrahydro-2-methyl-2 <i>H</i> ,10 <i>H</i> -pyrazino[1,2- <i>a</i>]pyrrolo-[2,1- <i>c</i>][1,4]benzodiazepine C ₁₈ H ₁₉ N ₃
asposicillinum asposicillin	(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[(2 <i>R</i>)-2-[(2 <i>R</i>)-2-amino-3-(methylcarbamoyl)propionamido]-2-(<i>p</i> -hydroxyphenyl)acetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]-heptane-2-carboxylic acid C ₂₁ H ₂₇ N ₅ O ₇ S
benaxibinum benaxibine	<i>p</i> -(<i>o</i> -xylosylamino)benzoic acid C ₁₂ H ₁₃ NO ₆
bencianolum bencianol	(2 <i>R</i> ,3 <i>S</i>)-3',4'-[(diphenylmethylene)dioxy]-3,5,7-flavantriol C ₂₈ H ₂₂ O ₄
binedalinum binedaline	1-[[2-(dimethylamino)ethyl]methylamino]-3-phenylindole C ₁₈ H ₂₃ N ₃
bioresmethrinum bioresmethrin	(5-benzyl-3-furyl)methyl (+)- <i>trans</i> -2,2-dimethyl-3-(2-methylpropenyl)-cyclopropanecarboxylate C ₂₂ H ₂₆ O ₃
biriperonum biriperone	(±)-4'-fluoro-4-(3,4,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4- <i>b</i>]indol-2(1 <i>H</i>)-yl)butyrophenone C ₂₄ H ₂₆ FN ₃ O
brocrinatum brocrinat	[[7-bromo-3-(<i>o</i> -fluorophenyl)-1,2-benzisoxazol-6-yl]oxy]acetic acid C ₁₅ H ₉ BrFNO ₄
bromerguridum bromerguride	3-(2-bromo-9,10-didehydro-6-methylergolin-8 <i>α</i> -yl)-1,1-diethylurea C ₂₆ H ₂₈ BrN ₄ O
broxaterolum broxaterol	(±)-3-bromo- <i>α</i> -[(<i>tert</i> -butylamino)methyl]-5-isoxazolemethanol C ₉ H ₁₃ BrN ₂ O ₂
bucricainum bucricaine	9-(butylamino)-1,2,3,4-tetrahydroacridine C ₁₇ H ₂₂ N ₂
bunazosinum bunazosin	1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-butyrylhexahydro-1 <i>H</i> -1,4-diazepine C ₁₈ H ₂₇ N ₅ O ₃
buparvaquonum buparvaquone	2-[(4- <i>tert</i> -butylcyclohexyl)methyl]-3-hydroxy-1,4-naphthoquinone C ₂₁ H ₂₆ O ₃
butanserinum butanserin	3-[4-[4-(<i>p</i> -fluorobenzoyl)piperidino]butyl]-2,4(1 <i>H</i> ,3 <i>H</i>)quinazolin-1-one C ₂₄ H ₂₆ FN ₃ O ₃
cabastinum cabastine	(±)- <i>trans</i> -1-[<i>cis</i> -4-cyano-4-(<i>p</i> -fluorophenyl)cyclohexyl]-3-methyl-4-phenylisonipecotic acid C ₂₆ H ₂₉ FN ₂ O ₂

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carumonamum carumonam	(Z)-[[[(2-amino-4-thiazolyl)[[(2S,3S)-2-(hydroxymethyl)-4-oxo-1-sulfo-3-azetidinyl]carbamoyl]methylene]amino]oxy]acetic acid, carbamate (ester) C ₁₂ H ₁₄ N ₆ O ₁₀ S ₂
cefpimizolum cefpimizole	1-[(6R,7R)-2-carboxy-7-[(R)-2-(5-carboxyimidazole-4-carboxyamido)-2-phenylacetamido]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-4-(2-sulfoethyl)pyridinium hydroxide, inner salt C ₂₈ H ₂₆ N ₆ O ₁₀ S ₂
cefpriomum cefpriome	1-[(6R,7R)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-6,7-dihydro-5H-1-pyridinium hydroxide, inner salt, 7 ² -(Z)-(O-methyloxime) C ₂₂ H ₂₂ N ₆ O ₅ S ₂
cetirizinium cetirizine	(±)-[2-[4-(p-chloro- <i>n</i> -phenylbenzyl)-1-piperazinyl]ethoxy]acetic acid C ₂₁ H ₂₅ ClN ₂ O ₃
ciclosporinum ciclosporin	cyclosporin A or cyclo[[<i>(E)</i> -(2S,3R,4R)-3-hydroxy-4-methyl-2-(methylamino)-6-octenoyl]-L-2-aminobutyryl-N-methylglycyl-N-methyl-L-leucyl-L-valyl-N-methyl-L-leucyl-L-alanyl-D-alanyl-N-methyl-L-leucyl-N-methyl-L-leucyl-N-methyl-L-valyl] C ₆₂ H ₁₁₁ O ₁₁ O ₁₂
ciclotropii bromidum ciclotropium bromide	(8 <i>r</i>)-3 <i>α</i> -hydroxy-8-isopropyl-1 <i>α</i> H,5 <i>α</i> H-tropanium bromide, <i>α</i> -phenylcyclopentaneacetate C ₂₄ H ₃₆ BrNO ₂
cifostodinum cifostodine	cytidine cyclic 2',3'-(hydrogen phosphate) C ₉ H ₁₂ N ₃ O ₇ P
ciglitazonum ciglitazone	(±)-5-[p-[(1-methylcyclohexyl)methoxy]benzyl]-2,4-thiazolidinedione C ₁₈ H ₂₃ NO ₃ S
cilastatinum cilastatin	(Z)-7-[[<i>(R)</i> -2-amino-2-carboxyethyl]thio]-2-[(<i>S</i>)-2,2-dimethylcyclopropanecarboxamido]-2-heptenoic acid C ₁₆ H ₂₆ N ₂ O ₅ S
cimetropii bromidum cimetropium bromide	8-(cyclopropylmethyl)-6 <i>β</i> ,7 <i>β</i> -epoxy-3 <i>α</i> -hydroxy-1 <i>α</i> H,5 <i>α</i> H-tropanium bromide, (-)-(<i>S</i>)-tropate C ₂₁ H ₂₈ BrNO ₄
cinexaxadifum cinexaxadil	<i>α</i> -[[[8-acetyl-1,4-benzodioxan-5-yl]oxy]methyl]-4-(3,4,5-trimethoxycinnamoyl)-1-piperazineethanol C ₂₉ H ₃₆ N ₂ O ₆
ciprazafonum ciprazafone	4'-chloro-2'-(o-chlorobenzoyl)-2-(cyclopropylamino)-N-methylacetanilide C ₁₉ H ₁₆ Cl ₂ N ₂ O ₂
ciprofloxacinum ciprofloxacin	1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid C ₁₇ H ₁₆ FN ₃ O ₃
climazoliolum climazolam	8-chloro-6-(o-chlorophenyl)-1-methyl-4 <i>H</i> -imidazo[1,5- <i>a</i>][1,4]benzodiazepine C ₁₈ H ₁₃ Cl ₂ N ₃
colforsinum colforsin	(3 <i>R</i> ,4 <i>aR</i> ,5 <i>S</i> ,6 <i>S</i> ,6 <i>aS</i> ,10 <i>S</i> ,10 <i>aR</i> ,10 <i>bS</i>)-dodecahydro-5,6,10,10 <i>b</i> -tetrahydroxy-3,4 <i>a</i> ,7,7,10 <i>a</i> -pentamethyl-3-vinyl-1 <i>H</i> -naphtho[2,1- <i>b</i>]pyran-1-one, 5-acetate C ₂₂ H ₃₄ O ₇
colistimethatum natricum colistimethate sodium	an antibiotic obtained from colistin sulfate by sulfomethylation with formaldehyde and sodium bisulfite
darodipinum darodipine	diethyl 4-(4-benzofurazanyl)-1,4-dihydro-2,6-dimethyl-3,5-pyridinedicarboxylate C ₁₉ H ₂₁ N ₃ O ₃

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dazmegrelum dazmegrel	3-(imidazol-1-ylmethyl)-2-methylindole-1-propionic acid $C_{16}H_{17}N_3O_2$
dazopridum dazopride	4-amino-5-chloro- <i>N</i> -(1,2-diethyl-4-pyrazolidinyl)- <i>o</i> -anisamide $C_{15}H_{23}ClN_4O_2$
deloxolonom deloxolone	3 β -hydroxyolean-9(11)-en-30-oic acid, hydrogen succinate $C_{34}H_{62}O_6$
denopamlinum denopamine	(-)-(<i>R</i>)- α -[[(3,4-dimethoxyphenethyl)amino]methyl]- <i>p</i> -hydroxybenzyl alcohol $C_{18}H_{23}NO_4$
dezaguaninum dezaguanine	6-amino-1,5-dihydro-4 <i>H</i> -imidazo[4,5- <i>c</i>]pyridin-4-one $C_6H_6N_4O$
diacereinum diacerein	9,10-dihydro-4,5-dihydroxy-9,10-dioxo-2-anthroic acid, diacetate $C_{19}H_{12}O_8$
dibrospidii chloridum dibrospidium chloride	3,12-bis(3-bromopropionyl)-3,12-diaza-6,9-diazoniadispiro[5.2.5.2]hexadecane dichloride $C_{18}H_{32}Br_2Cl_2N_4O_2$
diproteverinum diproteverine	1-(3,4-diethoxybenzyl)-3,4-dihydro-6,7-diisopropoxyisoquinoline $C_{28}H_{35}NO_4$
dopexaminum dopexamine	4-[2-[[6-(phenethylamino)hexyl]amino]ethyl]pyrocatechol $C_{22}H_{32}N_2O_2$
dotarizinum dotarizine	1-(diphenylmethyl)-4-[3-(2-phenyl-1,3-dioxolan-2-yl)propyl]piperazine $C_{28}H_{34}N_2O_2$
dronabinolum dronabinol	(6 <i>aR</i> ,10 <i>aR</i>)-6 <i>a</i> ,7,8,10 <i>a</i> -tetrahydro-6,6,9-trimethyl-3-pentyl-6 <i>H</i> - dibenzo[<i>b,d</i>]pyran-1-ol $C_{21}H_{30}O_2$
ebelenium ebesen	2-phenyl-1,2-benzisoselenazolin-3-one $C_{13}H_8NOSe$
eldexomerum eldexomer	product of etherification of hydrolysed starch with epichlorhydrin in the presence of excess alkali
enalaprilatum enalaprilat	1-[<i>N</i> -[(<i>S</i>)-1-carboxy-3-phenylpropyl]- <i>L</i> -alanyl]- <i>L</i> -proline $C_{18}H_{24}N_2O_5$
enisoprostum enisoprost	($\pm$)-methyl (Z)-7-[(1 <i>R</i> ,2 <i>R</i> ,3 <i>R</i>)-3-hydroxy-2-[(<i>E</i>)-(4 <i>RS</i>)-4-hydroxy-4-methyl- 1-octenyl]-5-oxocyclopentyl]-4-heptenoate $C_{22}H_{36}O_5$
enprostilum enprostil	methyl-7-[(1 <i>R</i> *,2 <i>R</i> *,3 <i>R</i> *)-3-hydroxy-2-[(<i>E</i>)-(3 <i>R</i> *)-3-hydroxy-4-phenoxy-1- butenyl]-5-oxocyclopentyl]-4,5-heptadienoate $C_{23}H_{28}O_5$
epostanum epostane	4 α ,5-epoxy-3,17 β -dihydroxy-4,17-dimethyl-5 α -androst-2-ene-2-carbonitrile $C_{22}H_{31}NO_3$
ericoloium ericolol	($\pm$)-3-[2-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]-4-chlorophenyl]-2- cyclopenten-1-one $C_{18}H_{24}ClNO_3$
erocainidum erocainide	(<i>E</i>)-2-(<i>p</i> -chlorobenzylidene)cyclohexanone (<i>E</i>)- <i>O</i> - [3-(diisopropylamino)propyl]oxime $C_{22}H_{33}ClN_2O$
etersalatatum etersalate	salicylic acid acetate, ester with β -hydroxy- <i>p</i> -acetophenetidide or 2-(<i>p</i> -acetamidophenoxy)ethyl salicylate, acetate (ester) $C_{19}H_{19}NO_6$

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etilefrini pivalas etilefrine pivalate	(±)- <i>m</i> -[(ethylamino)-1-hydroxyethyl]phenyl pivalate or (±)- <i>a</i> -[(ethyl- amino)methyl]- <i>m</i> -hydroxybenzyl alcohol 3-pivalate $C_{15}H_{23}NO_3$
etretinum etretin	(<i>all</i> - <i>E</i>)-9-(4-methoxy-2,3,6-trimethylphenyl)-3,7-dimethyl-2,4,6,8- nonatetraenoic acid $C_{21}H_{26}O_3$
fenoldopamum fenoldopam	6-chloro-2,3,4,5-tetrahydro-1-(<i>p</i> -hydroxyphenyl)-1 <i>H</i> -3-benzazepine-7,8-diol $C_{16}H_{16}ClNO_3$
fenretinidum fenretinide	<i>all-trans</i> -4'-hydroxyretinanilide $C_{26}H_{32}NO_2$
fepradinolum fepradinol	(±)- <i>a</i> -[(2-hydroxy-1,1-dimethylethyl)amino]methyl]benzyl alcohol $C_{12}H_{18}NO_2$
florifeninum florifenine	2-(1-pyrrolidinyl)ethyl <i>N</i> -[7-(trifluoromethyl)-4-quinolyl]anthranilate $C_{23}H_{22}F_3N_3O_2$
fluprofyllinum fluprofylline	7-[3-[4-(<i>p</i> -fluorobenzoyl)piperidino]propyl]theophylline $C_{22}H_{26}FN_5O_3$
flurithromycinum flurithromycin	(8 <i>S</i>)-8-fluoroerythromycin $C_{37}H_{66}FNO_{13}$
flusoxololum flusoxolol	(<i>S</i>)-1-[<i>p</i> -[2-[(<i>p</i> -fluorophenethyl)oxy]ethoxy]phenoxy]-3-(isopropylamino)-2- propanol $C_{22}H_{30}FNO_4$
flutropii bromidum flutropium bromide	(8 <i>r</i>)-8-(2-fluoroethyl)-3 <i>a</i> -hydroxy-1 <i>aH</i> ,5 <i>aH</i> -tropanium bromide, benzilate $C_{24}H_{28}BrFNO_3$
fluzinamidum fluzinamide	<i>N</i> -methyl-3-[(<i>a,a,a</i> -trifluoro- <i>m</i> -tolyl)oxy]-1-azetidinecarboxamide $C_{12}H_{13}F_3N_2O_2$
fosfocreatinum fosfocreatinine	(1-methyl-4-oxo-2-imidazolidinylidene)phosphoramidic acid $C_4H_8N_5O_4P$
fostedilum fostedil	diethyl (<i>p</i> -2-benzothiazolylbenzyl)phosphonate $C_{18}H_{20}NO_3PS$
frabuprofenum frabuprofen	2-[4-(<i>a,a,a</i> -trifluoro- <i>m</i> -tolyl)-1-piperazinyl]ethyl (±)- <i>p</i> -isobutylhydratropate $C_{26}H_{33}F_3N_2O_2$
fumoxicillinum fumoxicillin	(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[(<i>R</i>)-2-(furfurylideneamino)-2-(<i>p</i> -hydroxyphenyl)acetamido]-3,3- dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid $C_{21}H_{27}N_3O_6S$
unicatum glunicate	2-deoxy-2-nicotinamido-β- <i>D</i> -glucopyranose 1,3,4,6-tetranicotinate $C_{36}H_{28}N_6O_{10}$
guaimesalum guaimesal	(±)-2-(<i>o</i> -methoxyphenoxy)-2-methyl-1,3-benzodioxan-4-one $C_{16}H_{14}O_5$
hyalosidasum hyalosidase	hyaluronoglucosaminidase or E C 3.2.1.35
icospiramidum icospiramide	(±)-8-[<i>cis</i> -4-cyano-4-(<i>p</i> -fluorophenyl)cyclohexyl]-1-(<i>p</i> -fluorophenyl)-4-oxo- 1,3,8-triazaspiro[4.5]decane-3-acetamide $C_{28}H_{31}F_2N_3O_2$
idebenonum idebenone	2-(10-hydroxydecyl)-5,6-dimethoxy-3-methyl- <i>p</i> -benzoquinone $C_{19}H_{30}O_5$

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imidazoli salicylas imidazole salicylate	salicyclic acid, compound with imidazole (1 : 1) C ₁₀ H ₁₀ N ₂ O ₃
imipenemum imipenem	(5 <i>R</i> ,6 <i>S</i>)-3-[[2-(formimidoylamino)ethyl]thio]-6-[(<i>R</i>)-1-hydroxyethyl]-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid C ₁₂ H ₁₇ N ₃ O ₄ S
indanidinum indanidine	4-(2-imidazolin-2-ylamino)-2-methyl-2 <i>H</i> -indazole C ₁₁ H ₁₃ N ₅
indolaprilum indolapril	(2 <i>S</i> ,3 <i>aS</i> ,7 <i>aS</i>)-1-[(<i>S</i>)- <i>N</i> -[(<i>S</i>)-1-carboxy-3-phenylpropyl]alanyl]hexahydro-2-indolinecarboxylic acid, 1-ethyl ester C ₂₄ H ₃₄ N ₂ O ₅
iodecimolum iodecimol	5,5'-[malonylbis[(2-hydroxyethyl)imino]]bis[<i>N,N'</i> -bis[2-hydroxy-1-(hydroxymethyl)ethyl]-2,4,6-triiodoisophthalamide] C ₃₅ H ₄₄ I ₃ N ₆ O ₁₈
iofetaminum (¹²³ I) iofetamine (¹²³ I)	(±)- <i>p</i> -iodo- ¹²³ <i>I</i> - <i>N</i> -isopropyl- <i>α</i> -methylphenethylamine C ₁₂ H ₁₈ ¹²³ IN
iosimidium iosimide	<i>N,N,N',N',N'',N''</i> -hexakis(2-hydroxyethyl)-2,4,6-triiodo-1,3,5-benzenetricarboxamide C ₂₁ H ₃₀ I ₃ N ₃ O ₉
iotrolanum iotrolan	5,5'-[malonylbis(methylimino)]bis[<i>N,N'</i> -bis[2,3-dihydroxy-1-(hydroxymethyl)propyl]-2,4,6-triiodoisophthalamide] C ₃₇ H ₄₈ I ₃ N ₆ O ₁₈
ipramidilum ipramidil	<i>N,N</i> -diisopropyl-3,4-furazandicarboxamide 2-oxide C ₁₀ H ₁₆ N ₄ O ₄
iproplatinum iproplatin	<i>ab</i> -dichloro- <i>ce</i> -dihydroxy- <i>df</i> -bis(isopropylamine)platinum C ₆ H ₂₀ Cl ₂ N ₂ O ₂ Pt
itraconazolum itraconazole	(±)-1- <i>sec</i> -butyl-4-[<i>p</i> -[4-[<i>p</i> -[[2 <i>R</i> *,4 <i>S</i> *]-2-(2,4-dichlorophenyl)-2-(1 <i>H</i> -1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-Δ ² -1,2,4-triazolin-5-one C ₃₅ H ₃₈ Cl ₂ N ₄ O ₄
ketorfanolum ketorfanol	17-(cyclopropylmethyl)-4-hydroxymorphinan-6-one C ₂₀ H ₂₅ NO ₂
ketorolacum ketorolac	(±)-5-benzoyl-2,3-dihydro-1 <i>H</i> -pyrrolizine-1-carboxylic acid C ₁₅ H ₁₃ NO ₃
ketotrexatum ketotrexate	<i>N</i> -[<i>p</i> -[[2-(2-amino-1,4,5,6,7,8-hexahydro-5-methyl-4-oxo-6-pteridinyl)ethyl]amino]benzoyl]-L-glutamic acid C ₂₁ H ₂₇ N ₇ O ₈
laurixaminum laurixamine	3-(dodecyloxy)propylamine C ₁₅ H ₃₃ NO
laurocapramum laurocapram	1-dodecylhexahydro-2 <i>H</i> -azepin-2-one C ₁₈ H ₃₅ NO
lenampicillinum lenampicillin	2,3-dihydroxy-2-butenyl (2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[(<i>R</i>)-2-amino-2-phenylacetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate, cyclic carbonate C ₂₁ H ₂₃ N ₃ O ₇ S
levocabastinum levocabastine	(-)- <i>trans</i> -1-[<i>cis</i> -4-cyano-4-(<i>p</i> -fluorophenyl)cyclohexyl]-3-methyl-4-phenylisonipecotic acid C ₂₆ H ₂₉ FN ₂ O ₂

lisinoprilum lisinopril	1-[N ² -[(S)-1-carboxy-3-phenylpropyl]-L-lysyl]-L-proline C ₂₁ H ₃₁ N ₃ O ₅
losulazinum losulazine	1-[(p-fluorophenyl)sulfonyl]-4-[p-[(7-(trifluoromethyl)-4-quinolyl)amino]benzoyl]piperazine C ₂₇ H ₂₂ F ₄ N ₄ O ₃ S
loxoprofenum loxoprofen	(±)-p-[(2-oxocyclopentyl)methyl]hydratropic acid C ₁₅ H ₁₆ O ₃
lufuradomum lufuradom	(±)-N-[(8-fluoro-2,3-dihydro-1-methyl-5-phenyl-1H-1,4-benzodiazepin-2-yl)methyl]-3-furamide C ₂₂ H ₂₀ FN ₃ O ₂
lutrelinum lutrelin	5-oxo-L-prolyl-L-histidyl-L-tryptophyl-L-seryl-L-tyrosyl-D-tryptophyl-N-methyl-L-leucyl-L-arginyl-N-ethyl-L-prolinamide C ₆₃ H ₈₃ N ₁₇ O ₁₂
mafosfamidum mafosfamide	(±)-2-[[2-bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorin-4-yl]thio]ethanesulfonic acid P-cis-oxide C ₈ H ₁₈ Cl ₂ N ₂ O ₅ PS ₂
mecetronii etilsulfas mecetronium etilsulfate	ethylhexadecyldimethylammonium ethyl sulfate C ₂₂ H ₄₈ NO ₄ S
mecladanolum mecladanol	(2R,3S)-3-methoxy-3',4',5,7-flavantetrol C ₁₆ H ₁₆ O ₆
menogarilum menogaril	(2R*,3S*,4R*,5R*,6R*,11R*,13R*)-4-(dimethylamino)-3,4,5,6,11,12,13,14-octahydro-3,5,8,10,13-pentahydroxy-11-methoxy-6,13-dimethyl-2,6-epoxy-2H-naphthaceno[1,2-b]oxocin-9,16-dione C ₂₈ H ₃₁ NO ₁₀
mespirenonum mespirenone	15α,16α-dihydro-17-hydroxy-7α-mercapto-3-oxo-3'H-cyclopropa[15,16]-17α-pregna-1,4,15-triene-21-carboxylic acid, γ-lactone, acetate C ₂₅ H ₃₀ O ₄ S
methoxaminum methoxamine	2-amino-1-(2,5-dimethoxyphenyl)propan-1-ol or α-(1-aminoethyl)-2,5-dimethoxybenzyl alcohol C ₁₁ H ₁₇ NO ₃
mifentidinum mifentidine	N-(p-imidazol-4-ylphenyl)-N'-isopropylformamidine C ₁₃ H ₁₆ N ₄
milrinonum milrinone	1,6-dihydro-2-methyl-6-oxo[3,4'-bipyridine]-5-carbonitrile C ₁₂ H ₈ N ₃ O
mioflazinum mioflazine	(±)-4-[4,4-bis(p-fluorophenyl)butyl]-3-carbamoyl-2',6'-dichloro-1-piperazineacetanilide C ₂₅ H ₃₀ Cl ₂ F ₂ N ₄ O ₂
mioimazolium imazole	1-isopropyl-2-imidazolidinethione C ₆ H ₁₂ N ₂ S
mitozolomidum mitozolomide	3-(2-chloroethyl)-3,4-dihydro-4-oxoimidazo[5,1-d]-as-tetrazine-8-carboxamide C ₇ H ₇ ClN ₆ O ₂
naflorcortum naflorcort	9-fluoro-1',4'-dihydro-11β,21-dihydroxy-2'βH-naphtho[2',3':16,17]pregna-1,4-diene-3,20-dione C ₂₈ H ₃₃ FO ₄
nedocromilum nedocromil	9-ethyl-6,9-dihydro-4,6-dioxo-10-propyl-4H-pyrano[3,2-g]quinoline-2,8-dicarboxylic acid C ₁₉ H ₁₇ NO ₇
nefazodonum nefazodone	1-[3-[4-(m-chlorophenyl)-1-piperazinyl]propyl]-3-ethyl-4-(2-phenoxyethyl)-Δ ² -1,2,4-triazolin-5-one C ₂₅ H ₃₂ ClN ₅ O ₂

Recommended international
Nonproprietary Name (Latin, English)

Chemical Name or Description and Molecular Formulae

nipradilolum nipradilol	8-[2-hydroxy-3-(isopropylamino)propoxy]-3-chroman-3-ol, 3-nitrate $C_{15}H_{22}N_2O_6$
nocloprostum nocloprost	(Z)-7-[(1R,2R,3R,5R)-5-chloro-3-hydroxy-2-[(E)-(3R)-3-hydroxy-4,4-dimethyl-1-octenyl]cyclopentyl]-5-heptenoic acid $C_{22}H_{37}ClO_4$
ofloxacinum ofloxacin	(±)-9-fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid $C_{18}H_{20}FN_3O_4$
otimeratum natricum otimerate sodium	ethyl(hydrogen 2-mercapto-5-benzoxazolecarboxylato)mercury, sodium salt $C_{10}H_8HgNNaO_3S$
oxacillinum oxacillin	$C_{19}H_{19}N_3O_5S$
picartamidum picartamide	(±)-tetrahydro-N-methyl-2-(2-pyridyl)thio-2-thiophenecarboxamide $C_{11}H_{14}N_2S_2$
piriprostum piriprost	(4R,5R)-1,4,5,6-tetrahydro-5-hydroxy-4-[(E)-(3S)-3-hydroxy-1-octenyl]-1-phenylcyclopenta[b]pyrrole-2-valeric acid $C_{26}H_{35}NO_4$
plicamycinum plicamycin	an antibiotic substance obtained from cultures of <i>Streptomyces tanashiensis</i> , or the same substance produced by any other means
proterguridum proterguride	1,1-diethyl-3-(6-propylergolin-8α-yl)urea $C_{22}H_{32}N_4O$
quinacainolum quinacainol	(±)-2-tert-butyl-α-[2-(4-piperidyl)ethyl]-4-quinolinemethanol $C_{21}H_{30}N_2O$
quisultazinum quisultazine	N,N-dimethyl-10-(3-quinuclidinyl)phenothiazine-2-sulfonamide $C_{21}H_{25}N_3O_2S_2$
ramifenazonum ramifenazone	4-(isopropylamino)-2,3-dimethyl-1-phenyl-3-pyrazolin-5-one $C_{14}H_{19}N_3O$
revenastum revenast	2,3-diphenyl-1-[3-[4-(2-pyridyl)-1-piperazinyl]propyl]-3-pyrazolin-5-one $C_{27}H_{29}N_5O$
ridazololum ridazolol	(±)-4-chloro-5-[2-[[3-(o-chlorophenoxy)-2-hydroxypropyl]amino]ethyl]amino-3(2H)-pyridazinone $C_{15}H_{18}Cl_2N_4O_3$
ristianolum ristianol	2-[(4-pyridylmethyl)thio]ethanol $C_8H_{11}NOS$
ritanserinum ritanserine	6-[2-[4-[bis(p-fluorophenyl)methylene]piperidino]ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one $C_{27}H_{26}F_2N_2OS$
ronipamilum ronipamil	(±)-2-[3-(methylphenethylamino)propyl]-2-phenyltetradecanenitrile $C_{32}H_{48}N_2$
ropivacainum ropivacaine	(-)-1-propyl-2',6'-pipecoloxylidide $C_{17}H_{28}N_2O$
setoperonum setoperone	6-[2-[4-(p-fluorobenzoyl)piperidino]ethyl]-2,3-dihydro-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one $C_{21}H_{24}FN_3O_2S$

somantadinum somantadine	α,α -dimethyl-1-adamantaneethylamine $C_{14}H_{25}N$
taumustinum taumustine	1-(2-chloroethyl)-3-[2-(dimethylsulfamoyl)ethyl]-1-nitroso-urea $C_7H_{15}ClN_4O_4S$
tazasubratum tazasubrate	($\pm$)- α -[(6-ethoxy-2-benzothiazolyl)thio]hydratropic acid $C_{18}H_{17}NO_3S_2$
tazeprofenum tazeprofene	($\pm$)- α -methyl-2-phenyl-6-benzothiazoleacetic acid $C_{16}H_{13}NO_2S$
telenzepinum telenzepine	4,9-dihydro-3-methyl-4-[(4-methyl-1-piperazinyl)acetyl]-10H-thieno- [3,4-b][1,5]benzodiazepin-10-one $C_{19}H_{22}N_4O_2S$
tenilsetamum tenilsetam	($\pm$)-3-(2-thienyl)-2-piperazinone $C_8H_{10}N_2OS$
teprenonum teprenone	6,10,14,18-tetramethyl-5,9,13,17-nonadecatetraen-2-one, mixture of (5 <i>E</i> ,9 <i>E</i> ,13 <i>E</i>) and (5 <i>Z</i> ,9 <i>E</i> ,13 <i>E</i>) isomers $C_{23}H_{38}O$
terguridum terguride	1,1-diethyl-3-(6-methylergolin-8 α -yl)urea $C_{20}H_{28}N_4O$
teriparatidum teriparatide	L-seryl-L-valyl-L-seryl-L-glutamyl-L-isoleucyl-L-glutamyl-L-leucyl-L-methionyl- L-histidyl-L-asparagyl-L-leucylglycyl-L-lysyl-L-histidyl-L-leucyl-L-asparagyl- L-seryl-L-methionyl-L-glutamyl-L-arginyl-L-valyl-L-glutamyl-L-tryptophyl-L-leucyl- L-arginyl-L-lysyl-L-lysyl-L-leucyl-L-glutamyl-L-aspartyl-L-valyl-L-histidyl- L-asparagylphenyl-L-alanine $C_{181}H_{281}N_{55}O_{51}S_2$
tetramethrinum tetramethrin	2,2-dimethyl-3-(2-methylpropenyl)cyclopropanecarboxylic acid, ester with <i>N</i> - (hydroxymethyl)-1-cyclohexene-1,2-dicarboximide or 1-cyclohexene-1,2- dicarboximidomethyl 2,2-dimethyl-3-(2-methylpropenyl)cyclopropane- carboxylate $C_{18}H_{25}NO_4$
tilactasum tilactase	β -D-galactosidase or E.C. 3.2.1.23
tilsuprostum tilsuprost	methyl ($\pm$)-4-[[[(3 <i>aR</i> *,4 <i>R</i> *,5 <i>R</i> *,6 <i>aS</i> *)-3,3 <i>a</i> ,4,5,6,6 <i>a</i> -hexahydro-5-hydroxy-4-[(<i>E</i>)- (3 <i>S</i> *)-3-hydroxy-1-octenyl]cyclopenta[<i>b</i>]pyrrol-2-yl]thio]butyrate $C_{20}H_{33}NO_4S$
timefurinum timefurone	4,9-dimethoxy-7-[(methylthio)methyl]-5 <i>H</i> -furo[3,2- <i>g</i>][1]benzopyran-5-one $C_{15}H_{14}O_5S$
timabesonum timabesone	<i>S</i> -methyl 9-fluoro-11 β ,17-dihydroxy-16 β -methyl-3-oxoandrost-1,4-diene-17 β - carbothioate $C_{22}H_{29}FO_4S$
tiprinastum tiprinast	3,4-dihydro-6-isobutyl-5-methyl-4-oxothieno[2,3- <i>d</i>]pyrimidine-2-carboxylic acid $C_{12}H_{14}N_2O_3S$
tolnapersinum tolnapersine	5,6,7,8-tetrahydro-6-(4- <i>o</i> -tolyl-1-piperazinyl)-2-naphthol $C_{21}H_{26}N_2O$
tolrestatum tolrestat	<i>N</i> -[6-methoxythio-5-(trifluoromethyl)-1-naphthoyl]sarcosine $C_{16}H_{14}F_3NO_3S$
tolufazepamum tolufazepam	7-chloro-5-(<i>o</i> -chlorophenyl)-1,3-dihydro-1-[2-(<i>p</i> -tolylsulfonyl)ethyl]-2 <i>H</i> -1,4- benzodiazepin-2-one $C_{24}H_{22}Cl_2N_2O_3S$

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tosulurum tosulur	2-methoxyethyl (<i>p</i> -tolylsulfonyl)carbamate C ₁₁ H ₁₅ NO ₅ S
transcainidum transcainide	(±)- <i>trans</i> -4-(dimethylamino)-1-(2-hydroxycyclohexyl)-2',6'-isonipecotoxylidide C ₂₂ H ₃₅ N ₃ O ₂
trazolopridum trazalopride	<i>N</i> -(1-benzyl-4-piperidyl)-6-methoxy-1 <i>H</i> -benzotriazole-5-carboxamide C ₂₀ H ₂₃ N ₅ O ₂
triletidum triletide	<i>N</i> -[<i>N</i> -(<i>N</i> -acetyl-3-phenyl-L-alanyl)-3-phenyl-L-alanyl]-L-histidine, methyl ester C ₂₇ H ₃₁ N ₅ O ₅
troxidipidum troxidipide	(±)-3,4,5-trimethoxy- <i>N</i> -3-piperidylbenzamide C ₁₆ H ₂₂ N ₂ O ₄
ufenamatum ufenamate	butyl <i>N</i> -(<i>a,a,a</i> -trifluoro- <i>m</i> -tolyl)anthranilate C ₁₈ H ₁₁ F ₃ NO ₂
valdetamidum valdetamide	2,2-diethyl-4-pentenamide C ₉ H ₁₇ NO
valproatum pivoxilum valproate pivoxil	hydroxymethyl 2-propylvalerate, pivalate C ₁₄ H ₂₆ O ₄
valproatum seminatricum valproate semisodium	sodium hydrogen bis(2-propylvalerate) C ₁₆ H ₃₁ NaO ₄
vinepidinum vinepidine	(4' <i>S</i>)-4'-deoxyeurocristine C ₄₆ H ₅₆ N ₄ O ₉
vintriptolum vintriptol	[23(<i>S</i>)]-4-deacetyl-3-[(1-carboxy-2-indol-3-ylethyl)carbamoyl]-3-de(methoxycarbonyl)vincal leukoblastine, ethyl ester C ₉₈ H ₈₁ N ₆ O ₈
zidapamidum zidapamide	4-chloro- <i>N</i> -(1-methyl-2-isoindolyl)-3-sulfamoylbenzamide C ₁₈ H ₁₄ ClN ₃ O ₃ S
zinci acetat basicum zinc acetate, basic	hexakis(μ-acetato)-μ ₄ -oxotetrazinc C ₁₂ H ₁₈ O ₁₃ Zn ₄
zinoconazolum zinoconazole	5-chloro-2-thienyl imidazol-1-ylmethyl ketone, (<i>E</i>)-(2,6-dichlorophenyl)hydrazone C ₁₅ H ₁₁ Cl ₂ N ₄ S
zofenoprilum zofenopril	(4 <i>S</i>)- <i>N</i> -[(<i>S</i>)-3-mercapto-2-methylpropionyl]-4-(phenylthio)-L-proline benzoate (ester) C ₂₂ H ₂₃ NO ₄ S ₂
zuclopenthixolum zuclopenthixol	(<i>Z</i>)-4-[3-(2-chlorothioxanthen-9-ylidene)propyl]-1-piperazineethanol C ₂₂ H ₂₅ ClN ₂ OS

AMENDMENTS TO PREVIOUS LISTS

Vol. 21, N. 12

International Nonproprietary Names (Rec. INN): List 7

p. 542	difemerinum difemerine	<i>replace chemical name by the following: 2-(dimethylamino)-1,1-dimethylethyl benzilate</i>
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Supplement to Vol. 29, N. 10

International Nonproprietary Names (Rec. INN): List 15

p. 8	stilonii iodidum stilonium iodide	<i>complete chemical name with (E), e.g.: triethyl[2-[(E)-</i>
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Supplement to Vol. 35, N. 5

International Nonproprietary Names (Rec. INN): List 21

	<i>delete</i>	<i>insert</i>
p. 1	acidum indacrinicum indacrinic acid	indacrinonum indacrinone

Supplement to Vol. 37, N. 6

International Nonproprietary Names (Rec. INN): List 23

p. 9	teicoplaninum teicoplanin	<i>delete molecular formula</i>
p. 11	corbadrinum corbadrine	<i>the amendment in List 23 rec. is superseded and the chemical name should be replaced by: erythro-(–)-α-(1-aminoethyl)-3,4-dihydroxybenzyl alcohol</i>