

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 19²

Recommended International
Nonproprietary Name (Latin, English)

Chemical Name or Description and Molecular Formulae

acarbosum acarbose	$O\text{-}4\text{-}6\text{-dideoxy-4-}[[1S,4R,5S,6S]\text{-}4,5,6\text{-trihydroxy-3-(hydroxymethyl)\text{-}2-cyclohexen-1\text{-yl}]\text{amino}\text{-}\alpha\text{-D\text{-}glucopyranosyl}\text{-}(1\rightarrow4)\text{-}O\text{-}\alpha\text{-D\text{-}glucopyranosyl}\text{-}(1\rightarrow4)\text{-D\text{-}glucopyranose}$ $\text{C}_{25}\text{H}_{43}\text{NO}_{11}$
afurololum afurolol	$7\text{-}[3\text{-}(tert\text{-butylamino)\text{-}2-hydroxypropoxy}]\text{phthalide}$ $\text{C}_{15}\text{H}_{21}\text{NO}_4$
alafosalinum alafosalin	$[(1R)\text{-}1\text{-}[(2S)\text{-}2\text{-aminopropionamido}]\text{ethyl}]\text{phosphonic acid}$ $\text{C}_5\text{H}_{13}\text{N}_2\text{O}_4\text{P}$
aclometasonum aclometasone	$7\alpha\text{-chloro-}11\beta,17,21\text{-trihydroxy-}16\alpha\text{-methylpregna-}1,4\text{-diene-}3,20\text{-dione}$ $\text{C}_{22}\text{H}_{28}\text{ClO}_5$
alepridum alepride	$2\text{-}(allyloxy)\text{-}4\text{-amino-}5\text{-chloro-N-[1-(3-cyclohexen-1-ylmethyl)\text{-}4-piperidyl]\text{benzamide}$ $\text{C}_{22}\text{H}_{30}\text{ClN}_3\text{O}_2$
alinidinum alinidine	$2\text{-}(N\text{-allyl)-2-6-dichloroanilino}\text{-}2\text{-imidazoline}$ $\text{C}_{12}\text{H}_{13}\text{Cl}_2\text{N}_3$
allopurinolum allopurinol	$1H\text{-pyrazolo[3,4-}d\text{]pyrimidin-4-ol}$ $\text{C}_5\text{H}_4\text{N}_4\text{O}$
almagatum almagate	aluminum magnesium carbonate hydroxide ($\text{Al}_2\text{Mg}_6(\text{CO}_3)_2(\text{OH})_{14}$) tetrahydrate $\text{C}_2\text{H}_4\text{Al}_2\text{Mg}_6\text{O}_{20}\text{.4H}_2\text{O}$
alminoprofenum alminoprofen	$p\text{-}[(2\text{-methylallyl)amino}]\text{hydratropic acid}$ $\text{C}_{13}\text{H}_{17}\text{NO}_2$
alozafonum alozafone	$4'\text{-chloro-}2\text{-}[(2\text{-cyano-}1\text{-methylethyl)methylamino}\text{-}2'\text{-}(o\text{-fluorobenzoyl)}\text{-}N\text{-methylacetanilide}$ $\text{C}_{21}\text{H}_{21}\text{ClF}_3\text{N}_3\text{O}_2$
amafolonum amafolone	$3\alpha\text{-amino-}2\beta\text{-hydroxy-}5\alpha\text{-androstan-}17\text{-one}$ $\text{C}_{19}\text{H}_{29}\text{NO}_2$
amfetaminium amfetaminil	$[(\alpha\text{-methylphenethyl)amino}]\text{phenylacetonitrile}$ $\text{C}_{17}\text{H}_{18}\text{N}_2$
amidantelum amidantel	$4\text{-}[[1\text{-}(dimethylamino)ethylidene]amino]\text{-}2\text{-methoxyacetanilide}$ $\text{C}_{13}\text{H}_{19}\text{N}_3\text{O}_2$

¹ Off. Rec. Wld Hlth Org., 1955, 60, 3 (Resolution EB15.R7); 1969, 173, 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, 421; 1967, 21, 538; 1968, 21, 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. 32, No. 10.

*Recommended International
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Chemical Name or Description and Molecular Formulae

amikhellinum amikhelline	9-[2-(diethylamino)ethoxy]-4-hydroxy-7-methyl-5 <i>H</i> -furo[3,2- <i>g</i>][1]benzopyran-5-one $C_{18}H_{21}NO_5$
apramycinum apramycin	4- <i>O</i> -[3 <i>α</i> -amino-6 <i>α</i> -[(4-amino-4-deoxy- α -D-glucopyranosyl)oxyl]-2,3,4,4 <i>a</i> ,6,7,8,8 <i>a</i> <i>α</i> -octahydro-8 <i>β</i> -hydroxy-7 <i>β</i> -(methylamino)pyrano-[3,2- <i>b</i>]pyran-2 <i>α</i> -yl]-2-deoxy-D-streptamine $C_{21}H_{41}N_5O_{11}$
azacitidinum azacitidine	4-amino-1- β -D-ribofuranosyl-s-triazin-2(1 <i>H</i>)-one $C_8H_{12}N_4O_5$
azimexonum azimexon	1-[1-(2-cyano-1-aziridinyl)-1-methylethyl]-2-aziridinecarboxamide $C_8H_{14}N_4O$
bentemazolum bentemazole	5-(1-benzylimidazol-2-yl)-1 <i>H</i> -tetrazole $C_{11}H_{10}N_6$
bentiromidum bentiromide	(<i>S</i>)- <i>p</i> -(α -benzamido- <i>p</i> -hydroxyhydrocinnamamido)benzoic acid $C_{21}H_{20}N_2O_5$
benzaprinoxidum benzaprinoxide	1-chloro- <i>N,N</i> -dimethyl-5 <i>H</i> -dibenzo[<i>a,d</i>]cycloheptene- $\Delta^{5,7}$ -propylamine <i>N</i> -oxide $C_{20}H_{20}ClNO$
bepridilum bepridil	β -[(2-methylpropoxy)methyl]- <i>N</i> -phenyl- <i>N</i> -(phenylmethyl)-1-pyrrolidineethanamine $C_{24}H_{34}N_2O$
brallobarbitalum brallobarbital	5-allyl-5-(2-bromoallyl)barbituric acid $C_{10}H_{11}BrN_2O_3$
brosuximidum brosuximide	2-(<i>m</i> -bromophenyl)succinimide $C_{10}HeBrN_2O_2$
brotizolamum brotizolam	2-bromo-4-(<i>o</i> -chlorophenyl)-9-methyl-6 <i>H</i> -thieno[3,2- <i>f</i>]-s-triazolo[4,3- <i>a</i>]-[1,4]diazepine $C_{15}H_{10}BrC_1N_4S$
buquineranum buquineran	1-butyl-3-[1-(6,7-dimethoxy-4-quinazolinyl)-4-piperidyl]urea $C_{20}H_{29}N_5O_3$
butikacinum butikacin	<i>O</i> -3-amino-3-deoxy- α -D-glucopyranosyl-(1 \rightarrow 6)- <i>D</i> -[6-amino-6-deoxy- α -D- ϵ' -copyranosyl-(1 \rightarrow 4)]- <i>N'</i> -[(<i>S</i>)-4-amino-2-hydroxybutyl]-2-deoxy-D-streptamin. $C_{22}H_{45}N_5O_{12}$
butilfeninum butilfenin	[[(<i>p</i> -butylphenyl)carbamoyl]methyl]imino]diacetic acid $C_{16}H_{22}N_2O_5$
butoconazolum butoconazole	(\pm)-1-[4-(<i>p</i> -chlorophenyl)-2-[(2,6-dichlorophenyl)thio]butyl]imidazole $C_{19}H_{17}Cl_3N_2S$
butofilololum butofilolol	(\pm)-2'-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]-5'-fluorobutyrophenone $C_{17}H_{26}FN_2O_3$
cadralazinum cadralazine	ethyl 6-[ethyl(2-hydroxypropyl)amino]-3-pyridazinecarbazate $C_{12}H_{21}N_5O_3$
carubicinum carubicin	(1 <i>S,3S</i>)-3-acetyl-1,2,3,4,6,11-hexahydro-3,5,10,12-tetrahydroxy-6,11-dioxo-1-naphthacenyl 3-amino-2,3,6-trideoxy- α -L- <i>lyxo</i> -hexopyranoside $C_{26}H_{27}NO_{10}$
cefotaximum cefotaxime	(6 <i>R,7R</i>)-7-[2-(2-amino-4-thiazolyl)glyoxylamido]-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid α -(<i>O</i> -methyloxime), acetate (ester) $C_{16}H_{17}N_5O_7S_2$

cefotiamum	(6 <i>R,7R</i>)-7-[2-(2-amino-4-thiazoly)acetamido]-3-[[1-[2-(dimethylamino)-ethyl]-1 <i>H</i> -tetrazol-5-yl]thio)methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid <chem>C11H23N3O4S3</chem>
celucloralum	cellulose 2-hydroxyethyl ether reaction product with chloral
celucloral	
cibenzolinum	2-(2,2-diphenylcyclopropyl)-2-imidazoline <chem>C16H18N2</chem>
cibenzoline	
ciclosidominum	<i>N</i> -(cyclohexylcarbonyl)-3-morpholinosydnone imine <chem>C13H20N4O3</chem>
ciclosidomine	
cicotizolatum	2-bromo-4-(<i>o</i> -chlorophenyl)-9-cyclohexyl-6 <i>H</i> -thieno[3,2- <i>f</i>]-5-triazolo[4,3- <i>a</i>]-[1,4]diazepine <chem>C20H14BrClN4S</chem>
cicotizolam	
cinfenoacum	<i>p</i> -[2-(α -carboxy- <i>p</i> -anisoyl)vinyl]benzoic acid <chem>C15H14O6</chem>
cinfenoac	
cinitapridum	4-amino- <i>N</i> -[1-(3-cyclohexen-1-ylmethyl)-4-piperidyl]-2-ethoxy-5-nitrobenzamide <chem>C21H30N4O4</chem>
cinitapride	
cinoquidoxum	<i>N</i> -(2-cyanoethyl)-3-methyl-2-quinoxalinecarboxamide 1,4-dioxide <chem>C13H12N4O3</chem>
cinoquidox	
ciprefadolum	(\pm)- <i>m</i> -[2-(cyclopropylmethyl)-1,3,4,5,6,7,8,8 <i>a</i> α -octahydro-4 <i>a</i> β (2 <i>H</i>)-isoquinolyl]phenol <chem>C19H27NO</chem>
ciprefadol	
cipropridum	<i>N</i> -[(1-(cyclopropylmethyl)-2-pyrrolidinyl)methyl]-5-sulfamoyl- <i>o</i> -anisamide <chem>C17H25N3O4S</chem>
cipropride	
clopipazanum	4-(2-chloroxanthen-9-ylidene)-1-methylpiperidine <chem>C19H18ClNO</chem>
clopipazan	
cloranololum	1-(<i>tert</i> -butylamino)-3-(2,5-dichlorophenoxy)-2-propanol <chem>C13H16Cl2NO2</chem>
cloranolol	
detorubicinum	glyoxylic acid 3 ² -ester with doxorubicin, 2-(diethyl acetal) or [(2 <i>S,4S</i>)-4-[(3-amino-2,3,6-trideoxy- α -L-fxyo-hexopyranosyl)oxy]-1,2,3,4,6,11-hexahydro-2,5,12-trihydroxy-7-methoxy-6,11-dioxo-2-naphthacenyl]carbonyl]-methyl glyoxylate 2-(diethyl acetal) <chem>C33H39NO14</chem>
detorubicin	
diacetololum	3'-acetyl-4'-[2-hydroxy-3-(isopropylamino)propoxy]acetanilide <chem>C15H24N2O4</chem>
diacetolol	
difemetorexum	2-(diphenylmethyl)-1-piperidineethanol <chem>C20H25NO</chem>
difemetorex	
dioxifedrinum	3,4-dihydroxy- α -[1-(methylamino)ethyl]benzyl alcohol <chem>C10H15NO3</chem>
dioxifedrine	
dipivefrinum	(\pm)-3,4-dihydroxy- α -[(methylamino)methyl]benzyl alcohol 3,4-dipivalate <chem>C15H25NO5</chem>
dipivefrine	
ecipramidilum	3-[(2,2-diphenylcyclopropyl)methyl]amino]propyl 3,4,5-trimethoxybenzoate <chem>C29H33NO6</chem>
ecipramidil	
encainidum	(\pm)-2'-(2-(1-methyl-2-piperidyl)ethyl)- <i>p</i> -anisanilide <chem>C22H28N2O2</chem>
encainide	
epicainidum	<i>N</i> -[(1-ethyl-2-pyrrolidinyl)methyl]benzylamide <chem>C21H26N2O2</chem>
epicainide	
etilamfetaminum	<i>N</i> -ethyl- α -methylphenethylamine <chem>C11H17N</chem>
etilamfetamine	

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etiracetam	(\pm)- α -ethyl-2-oxo-1-pyrrolidineacetamide
etiracetam	C ₉ H ₁₄ N ₂ O ₂
etizolam	4-(α -chlorophenyl)-2-ethyl-9-methyl-6H-thieno[3,2-f]-s-triazolo[4,3-a][1,4]diazepine
etizolam	C ₁₇ H ₁₅ ClN ₄ S
etretinatum	ethyl (<i>all</i> -E)-9-[4-methoxy-2,3,6-trimethylphenyl]-3,7-dimethyl-2,4,6,8-nonatetraenoate
etretinate	C ₂₃ H ₃₀ O ₃
exifonum	2,3,3',4,4',5'-hexahydroxybenzophenone
exifone	C ₁₅ H ₁₀ O ₇
fecleminum	2-(α -cyclohexylbenzyl)-N,N,N',N'-tetraethyl-1,3-propanediamine
feclemine	C ₂₄ H ₄₂ N ₂
fepitrizolum	α -[1-methyl-3-(3-pyridyl)-1 <i>H</i> -1,2,4-triazol-5-yl]benzyl alcohol
fepitrizol	C ₁₅ H ₁₄ N ₄ O
fibrinogenum (¹²⁵ I)	A preparation of fibrinogen (human) labeled with iodine ¹²⁵ I
fibrinogen (¹²⁵ I)	
fluindionum	2-(<i>p</i> -fluorophenyl)-1,3-indandione
fluindione	C ₁₅ H ₉ FO ₂
fluproquazonom	4-(<i>p</i> -fluorophenyl)-1-isopropyl-7-methyl-2(1 <i>H</i>)-quinazolinone
fluproquazone	C ₁₅ H ₁₇ FN ₂ O
fosfomycinum	(-)-(1 <i>R</i> ,2 <i>S</i>)-(1,2-epoxypropyl)phosphonic acid
fosfomycin	C ₅ H ₇ O ₄ P
furofenacum	2-ethyl-2,3-dihydro-5-benzofuranacetic acid
furofenac	C ₁₂ H ₁₄ O ₃
glicetanilum	5'-chloro-2-[<i>p</i> -[(5-isobutyl-2-pyrimidinyl)sulfamoyl]phenyl]- <i>o</i> -acetaniside
glicetanile	C ₂₂ H ₂₅ ClN ₄ O ₄ S
guacetisalum	<i>o</i> -methoxyphenyl salicylate acetate
guacetisal	C ₁₆ H ₁₄ O ₅
guaietolinum	3-(α -ethoxyphenoxy)-1,2-propanediol
guaietolin	C ₁₁ H ₁₆ O ₄
halometasonum	2-chloro-6 α ,9-difluoro-11 β ,17,21-trihydroxy-16 α -methylpregna-1,4-diene-3, α -dione
halometasone	C ₂₂ H ₂₇ ClF ₂ O ₅
indalpinum	3-[2-(4-piperidyl)ethyl]indole
indalpine	C ₁₅ H ₂₀ N ₂
ioglucolum	3'-[<i>N</i> -(2-hydroxyethyl)acetamido]-2',4',6'-triiodo-5'-(methylcarbamoyl)- <i>D</i> -gluconanilide
ioglucol	C ₁₈ H ₂₄ I ₃ N ₃ O ₉
ioglucomidum	<i>N,N'</i> -[2,4,6-triiodo-5-(methylcarbamoyl)- <i>m</i> -phenylene]bis[<i>D</i> -gluconamide]
ioglucomide	C ₂₀ H ₂₄ I ₃ N ₃ O ₁₁
ioglunidum	3'-(2-hydroxyethyl)carbamoyl]-2',4',6'-triiodo-5-(<i>N</i> -methylacetamido)- <i>D</i> -gluconanilide
ioglunide	C ₁₈ H ₂₄ I ₃ N ₃ O ₉
iopamidolum	<i>N,N'</i> -bis[2-hydroxy-1-(hydroxymethyl)ethyl]-2,4,6-triiodo-5-lactamidoisophthalamide
iopamidol	C ₁₇ H ₂₂ I ₃ N ₃ O ₈
isaxoninum	2-(isopropylamino)pyrimidine
isaxonine	C ₇ H ₁₁ N ₃

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isotretinoïnum	13- <i>cis</i> -retinoic acid
isotretinoin	C ₂₀ H ₂₈ O ₂
itanoxonum	2-[<i>p</i> -(<i>o</i> -chlorophenyl)phenacyl]acrylic acid
itanoxone	C ₁₇ H ₁₃ ClO ₃
ketoconazolum	<i>cis</i> -1-acetyl-4-[<i>p</i> -[[2-(2,4-dichlorophenyl)-2-(imidazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]piperazine
ketoconazole	C ₂₆ H ₂₈ Cl ₂ N ₄ O ₄
levofacetoperanum	(—)- <i>α</i> -phenyl-2-piperidinemethanol acetate (ester)
levofacetoperane	C ₁₄ H ₁₉ NO ₂
lidamidinum	1-(methylamidino)-3-(2,6-xylyl)urea
lidamidine	C ₁₁ H ₁₆ N ₄ O
meclorisonum	9,11 <i>β</i> -dichloro-17,21-dihydroxy-16 <i>α</i> -methylpregna-1,4-diene-3,20-dione
meclorisone	C ₂₂ H ₂₈ Cl ₂ O ₄
mesudipinum	diethyl 1',4'-dihydro-2',6'-dimethyl-2-(methylthio)[3,4'-bipyridine]-3',5'-dicarboxylate
mesudipine	C ₁₈ H ₂₄ N ₂ O ₄ S
mesulfamidum	(<i>p</i> -sulfamoylanilino)methanesulfonic acid
mesulfamide	C ₇ H ₁₀ N ₂ OS ₂
metamelfalanum	3-[<i>m</i> -[bis(2-chloroethyl)amino]phenyl]-L-alanine
metamelfalan	C ₁₃ H ₁₈ Cl ₂ N ₂ O ₂
metesculetolum	[[(7-hydroxy-4-methyl-2-oxo-2 <i>H</i> -1-benzopyran-6-yl)oxy]acetic acid
metesculetol	C ₁₂ H ₁₀ O ₆
mexazolamum	10-chloro-11 <i>b</i> -(<i>o</i> -chlorophenyl)-2,3,7,11 <i>b</i> -tetrahydro-3-methyloxazolo-[3,2- <i>d</i>]-[1,4]benzodiazepin-6(5 <i>H</i>)-one
mexazolam	C ₁₄ H ₁₀ Cl ₂ N ₂ O ₂
midazolamum	8-chloro-6-(<i>o</i> -fluorophenyl)-1-methyl-4 <i>H</i> -imidazo[1,5- <i>a</i>][1,4]benzodiazepine
midazolam	C ₁₄ H ₁₃ ClFN ₃
miloxacinum	5,8-dihydro-5-methoxy-8-oxo-1,3-dioxolo[4,5- <i>g</i>]quinoline-7-carboxylic acid
miloxacin	C ₁₂ H ₉ NO ₄
miristalkonii chloridum	benzyldimethyltetradecylammonium chloride
miristalkonium chloride	C ₂₃ H ₄₂ CIN
mitonafidum	<i>N</i> -[2-(dimethylamino)ethyl]-3-nitronaphthalimide
mitonafide	C ₁₆ H ₁₅ N ₃ O ₄
morniflumatum	2-morpholinoethyl 2-(<i>α,α,α</i> -trifluoro- <i>m</i> -toluidino)nicotinate
morniflumate	C ₁₉ H ₂₀ F ₃ N ₃ O ₃
moxaprindinum	<i>N,N</i> -diethyl- <i>N'</i> -(1-methoxy-2-indanyl)- <i>N'</i> -phenyl-1,3-propanediamine
moxaprindine	C ₂₃ H ₃₂ N ₂ O
moxifensinum	(\pm)-4-(3,4-dichlorophenyl)-1,2,3,4-tetrahydro-7-methoxy-2-methylisoquinoline
moxifensine	C ₁₇ H ₁₇ Cl ₂ NO
nadololum	1-(<i>tert</i> -butylamino)-3-[(5,6,7,8-tetrahydro- <i>cis</i> -6,7-dihydroxy-1-naphthyl)-oxy]-2-propanol
nadolol	C ₁₇ H ₂₇ NO ₄
naprodoximum	2-(1-naphthyoxy)propionamidoxime
naprodoxime	C ₁₃ H ₁₄ N ₂ O ₂
nicafeninum	<i>N</i> -(7-chloro-4-quinolyl)anthranilic acid ester with <i>N</i> -(2-hydroxyethyl)-nicotinamide
nicafenine	C ₂₄ H ₁₉ CIN ₄ O ₃

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nicocortomidum nicocortonide	11 β ,14,17,21-tetrahydroxypregn-4-ene-3,20-dione cyclic 14,17-acetal with croton-aldehyde, 21-isonicotinate $C_{31}H_{37}NO_7$
nimodipinum nimodipine	isopropyl 2-methoxyethyl 1,4-dihydro-2,6-dimethyl-4-(<i>m</i> -nitrophenyl)-3,5-pyridinedicarboxylate $C_{21}H_{26}N_2O_7$
nitrafudatum nitrafudam	5-(<i>o</i> -nitrophenyl)-2-furamide $C_{11}H_9N_3O_3$
nitroclofenum nitroclofene	4,6'-dichloro-4',6-dinitro-2,2'-methylenediphenol $C_{13}H_8Cl_2N_2O_6$
nomelidinum nomelidine	(<i>Z</i>)-3-[1-(<i>p</i> -bromophenyl)-3-(methylamino)propenyl]pyridine $C_{15}H_{15}BrN_2$
noreximidum nreximide	<i>cis-exo</i> -5-norbornene-2,3-dicarboximide $C_9H_9NO_2$
oftasceinum oftasceine	2',7'-bis[[bis(carboxymethyl)amino]methyl]fluorescein $C_{30}H_{26}N_2O_{13}$
omonasteinum omonasteine	tetrahydro-2 <i>H</i> -1,3-thiazine-4-carboxylic acid $C_5H_9NO_2S$
orconazolum orconazole	(\pm)-1-[<i>p</i> -chloro- β -[(2,6-dichlorobenzyl)oxy]phenethyl]imidazole $C_{19}H_{15}Cl_3N_2O$
oxabrexinum oxabrexine	ethyl [[4,6-dibromo- α -(cyclohexylmethylamino)- <i>o</i> -tolyl]oxy]acetate $C_{18}H_{25}Br_2N_2O_3$
oxapadolum oxapadol	4,5-dihydro-1-phenyl-1,4-epoxy-1 <i>H</i> ,3 <i>H</i> -[1,4]oxazepino[4,3- <i>a</i>]benzimidazole $C_{17}H_{14}N_2O_2$
oxcarbazepinum oxcarbazepine	10,11-dihydro-10-oxo-5 <i>H</i> -dibenz[<i>b,f</i>]azepine-5-carboxamide $C_{15}H_{12}N_2O_2$
paraxazonum paraxazone	2,3-dihydro-3-oxo-4 <i>H</i> -1,4-benzoxazine-4-acetamide $C_{10}H_{10}N_2O_3$
pentisomicinum pentisomicin	<i>O</i> -3-deoxy-4- <i>C</i> -methyl-3-(methylamino)- β -L-arabinopyranosyl-(1 \rightarrow 1)- <i>O</i> -[2,6-diamino-2,3,4,6-tetraoxy- α -D-glycero-hex-4-enopyranosyl-(1 \rightarrow 3)]-4,6-diamino-4,5,6-trideoxy-D- <i>myo</i> -inositol $C_{19}H_{37}N_5O_7$
pergolidum pergolide	8 β -[(methylthio)methyl]-6-propylergoline $C_{19}H_{26}N_2S$
phenindionum phenindione	2-phenyl-1,3-indandione $C_{15}H_{10}O_2$
phenolphthaleinum phenolphthalein	phenolphthalein or 3,3-bis(<i>p</i> -hydroxyphenyl)phthalide $C_{20}H_{14}O_4$
picilorexum picilorex	3-(<i>p</i> -chlorophenyl)-5-cyclopropyl-2-methylpyrrolidine $C_{14}H_{18}ClN$
piketoprofenum piketaprofen	<i>m</i> -benzoyl-N-(4-methyl-2-pyridyl)hydratropamide $C_{22}H_{20}N_2O_2$
pipecuronii bromidum pipecuronium bromide	4,4'-(3 α ,17 β -dihydroxy-5 α -androstan-2 β ,16 β -ylene)bis[1,1-dimethylpiperazinium] dibromide, diacetate (ester), dihydrate $C_{35}H_{62}Br_2N_4O_4\cdot 2H_2O$
pirifibratnum pirifibrate	[6-(hydroxymethyl)-2-pyridyl]methyl 2-(<i>p</i> -chlorophenoxy)-2-methylpropionate $C_{17}H_{18}ClNO_4$
pirinixilum pirinixil	2-[[4-chloro-6-(2,3-xylidino)-2-pyrimidinyl]thio]-N-(2-hydroxyethyl)acetamide $C_{16}H_{19}ClN_4O_2S$

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Chemical Name or Description and Molecular Formulae

pirindolum	2,3,3a,4,5,6-hexahydro-8-methyl-1 <i>H</i> -pyrazino[3,2,1- <i>jk</i>]carbazole
pirindole	C ₁₅ H ₁₆ N ₂
pirnabinum	(±)-7,8,9,10-tetrahydro-3,6,6,9-tetramethyl-6 <i>H</i> -dibenzo[<i>b,d</i>]pyran-1-ol acetate
pirnabin	C ₁₉ H ₂₄ O ₃
pirogliridum	<i>N</i> -(1-methyl-2-pyrrolidinylidene)- <i>N'</i> -phenyl-1-pyrrolidinecarboxamidine
pirogliride	C ₁₆ H ₂₂ N ₄
pituxatum	2-piperidinoethyl 2,2-diphenylcyclopropanecarboxylate
pituxate	C ₂₃ H ₂₇ NO ₂
prenoverinum	(±)-2'-(diphenylmethoxy)- <i>N,1</i> -dimethyl-2-phenoxydiethylamine
prenoverine	C ₂₅ H ₂₉ NO ₂
primidonum	5-ethyl-5-phenyl-4,6-dioxo-hexahydropyrimidine
primidone	C ₁₂ H ₁₄ N ₂ O ₂
propiramum	<i>N</i> -(1-methyl-2-piperidinoethyl)- <i>N</i> -2-pyridylpropionamide
propiram	C ₁₅ H ₂₅ N ₃ O
quinfamidum	2-furoic acid ester with 1-(dichloroacetyl)-1,2,3,4-tetrahydro-6-quinolinol
quinfamide	C ₁₆ H ₁₃ Cl ₂ NO ₄
quinuclii bromidum	1-methyl-3-oxo-4-phenylquinuclidinium bromide hemihydrate
quinuclium bromide	C ₁₄ H ₁₅ BrNO · ½H ₂ O
racepinefrinum	(±)-3,4-dihydroxy-α-[(methylamino)methyl]benzyl alcohol
racepinefrine	C ₉ H ₁₃ NO ₃
ranitidinum	<i>N</i> -[2-[[5-[(dimethylamino)methyl]furfuryl]thio]ethyl]- <i>N'</i> -methyl-2-nitro-1,1-ethenediamine
ranitidine	C ₁₃ H ₂₂ N ₄ O ₃ S
ropitoinum	5-(<i>p</i> -methoxyphenyl)-5-phenyl-3-[3-(4-phenylpiperidino)propyl]hydantoin
ropitoin	C ₃₀ H ₃₃ N ₃ O ₃
rosaramicinum	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
rosaramycin	C ₃₁ H ₅₁ NO ₉
roxibolonusum	11 <i>β</i> ,17 <i>β</i> -dihydroxy-17-methyl-3-oxoandrosta-1,4-diene-2-carboxylic acid
roxibolone	C ₂₁ H ₂₈ O ₅
salafibratrum	2-hydroxy-1-(hydroxymethyl)ethyl salicylate bis[2-(<i>p</i> -chlorophenoxy)-2-methylpropionate]
salafibrate	C ₃₂ H ₃₂ Cl ₂ O ₁₀
sarmoxicillinum	methoxymethyl (2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[4-(<i>p</i> -hydroxyphenyl)-2,2-dimethyl-5-oxo-1-imidazolidinyl]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate
sarmoxicillin	C ₂₁ H ₂₇ N ₃ O ₆ S
sfericasum	Alkaline <i>Bacillus sphaericus</i> proteinase
sfericase	
sulfasuccinamidum	4'-Sulfamoylsuccinanilic acid
sulfasuccinamide	C ₁₀ H ₁₂ N ₂ O ₅ S
taglutimidum	cis-endo- <i>N</i> -(2,6-dioxo-3-piperidyl)-2,3-norbornanedicarboximide
taglutimide	C ₁₄ H ₁₆ N ₂ O ₄
talisomycinum	<i>N'</i> -[4-amino-5-[[3-[(4-aminobutyl)amino]propyl]carbamoyl]pentyl]-13-[[4-amino-4,6-dideoxy-α-L-talopyranosyl]oxy]-19-demethyl-12-hydroxybleomycinamide
talisomycin	C ₆₈ H ₁₁₀ N ₂₂ O ₂₇ S ₂

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Chemical Name or Description and Molecular Formulae

talmetoprimum talmetoprim	<i>N</i> -[4-amino-5-(3,4,5-trimethoxybenzyl)-2-pyrimidinyl]phthalimide <chem>C22H20N4O5</chem>
talniflumatum talniflumate	phthalidyl 2-(α,α,α -trifluoro- <i>m</i> -toluidino)nicotinate <chem>C21H13F3N2O4</chem>
tegafurum tegafur	5-fluoro-1-(tetrahydro-2-furyl)uracil <chem>C8H9FN2O3</chem>
tilozepinum tilozepine	7-chloro-4-(4-methyl-1-piperazinyl)-10 <i>H</i> -thieno[3,2- <i>c</i>][1]benzazepine <chem>C17H18ClN1S</chem>
timiperonum timiperone	4'-fluoro-4-[4-(2-thioxo-1-benzimidazoliny)pyridino]butyrophenone <chem>C22H24FN3OS</chem>
timofibratum timofibrate	3-[2-(<i>p</i> -chlorophenoxy)-2-methylpropionyl]-4-thiazolidinecarboxylic acid <chem>C14H16ClNO4S</chem>
tioconazolum tioconazole	1-[2,4-dichloro- β -[(2-chloro-3-thenyl)oxy]phenethyl]imidazole <chem>C16H13Cl2N2OS</chem>
tiодазосинум tiодазосин	1-(4-amino-6,7-dimethoxy-2-quinazolinyl)-4-[[5-(methylthio)-1,3,4-oxadiazol-2-yl]carbonyl]piperazine <chem>C11H21N7O4S</chem>
tiопинакум tiопинак	6,11-dihydro-11-oxodibenzo[<i>b,e</i>]thiepin-3-acetic acid <chem>C16H12O5S</chem>
tiosinaminum tiosinamine	1-allyl-2-thiourea <chem>C4H8N2S</chem>
tolnidaminum tolnidamine	1-(4-chloro-2-methylbenzyl)-1 <i>H</i> -indazole-3-carboxylic acid <chem>C16H13ClN1O2</chem>
trioxifenum trioxifene	3,4-dihydro-2-(<i>p</i> -methoxyphenyl)-1-naphthyl <i>p</i> -[2-(1-pyrrolidinyl)ethoxy]phenyl ketone <chem>C30H31NO3</chem>
tropabazatum tropabazate	phenyl 3 α -hydroxy-8-azabicyclo[3.2.1]octane-8-carboxylate carbazate (ester) <chem>C15H19N3O4</chem>
tuclazepamum tuclazepam	7-chloro-5-(<i>o</i> -chlorophenyl)-2,3-dihydro-1-methyl-1 <i>H</i> -1,4-benzodiazepine-2-methanol <chem>C17H16Cl2N2O</chem>
tulobuterolum tulobuterol	α -[(<i>tert</i> -butylamino)methyl]- <i>o</i> -chlorobenzyl alcohol <chem>C12H19ClNO</chem>
valconazolum valconazole	(\pm)-2-(2-dichlorophenoxy)-1-imidazol-1-yl-4,4-dimethyl-3-pentanone <chem>C16H16Cl2N2O2</chem>
valperinolum valperinol	(2 <i>R</i> ⁺ ,4 <i>R</i> ⁺ ,4 <i>a</i> <i>S</i> ⁺ ,5 <i>R</i> ⁺ ,7 <i>S</i> ⁺ ,7 <i>a</i> <i>R</i> ⁺ ,8 <i>R</i> ⁺)-hexahydro-4-methoxy-8-methyl-7 <i>a</i> -(piperidinomethyl)-2,5-methanocyclopenta- <i>m</i> -dioxin-7-ol <chem>C16H27NO4</chem>
verilopamum verilopam	3-(<i>p</i> -aminophenethyl)-2,3,4,5-tetrahydro-7,8-dimethoxy-1 <i>H</i> -3-benzazepine <chem>C20H26N2O2</chem>
xinomilinum xinomiline	2-amino-4,4-dimethyl-2-oxazoline <chem>C5H10N2O</chem>
zetedolinum zetedoline	1-(<i>m</i> -chlorophenyl)-3-[2-(3,3-dimethyl-1-azetidinyl)ethyl]-2-imidazolidinone <chem>C16H22ClN3O</chem>
zinostatinum zinostatin	neocarzinostatin; acidic single-chained polypeptide obtained from cultures of <i>Streptomyces carcinostaticus</i> var. F-41, or the same substance produced by any other means
zocainonum zocainone	(<i>E</i>)-3-[<i>o</i> -[2-(diethylamino)ethoxy]phenoxy]-4-phenyl-3-buten-2-one <chem>C22H27NO3</chem>

**AMENDMENTS
TO PREVIOUS LISTS**

Supplement to Vol. 32, No. 10

Recommended International Nonproprietary Names (Rec. INN): List 18

p. 5 fomocainum
 fomocaine

Replace 1- at the beginning of the chemical name by 4-