

International Nonproprietary Names for Pharmaceutical Substances

In accordance with paragraph 7 of the Procedure for the Selection of Recommended International Nonproprietary Names for Pharmaceutical Substances,¹ no-

tice 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 16²

<i>Recommended International Nonproprietary Name</i> (Latin, English)	<i>Chemical Name or Description and Molecular Formula</i>
acidum diprogulicum diprogulic acid	2,3:4,6-di- <i>O</i> -isopropylidene- α -L-xylo-hexulofuranosonic acid C ₁₂ H ₁₈ O ₇
acidum tizoprollicum tizoprollic acid	2-propyl-5-thiazolecarboxylic acid C ₇ H ₉ NO ₂ S
actaplaninum actaplanin	glycopeptide antibiotic obtained from cultures of <i>Actinoplanes</i> strain ATCC 23342, or the same substance produced by any other means
albendazolum albendazole	methyl 5-(propylthio)-2-benzimidazolecarbamate C ₁₂ H ₁₅ N ₃ O ₂ S
almestronum almestrone	3-hydroxy-7 α -methylestra-1,3,5(10)-trien-17-one C ₁₉ H ₂₄ O ₂
alpertinum alpertine	ethyl 5,6-dimethoxy-3-[2-(4-phenyl-1-piperazinyl)ethyl]indole-2-carboxylate C ₂₅ H ₃₁ N ₃ O ₄
alrestatinum alrestatin	1,3-dioxo-1 <i>H</i> -benz[<i>de</i>]isoquinoline-2(3 <i>H</i>)-acetic acid C ₁₄ H ₉ NO ₄
amobarbitalum amobarbital	5-ethyl-5-isopentylbarbituric acid C ₁₁ H ₁₈ N ₂ O ₃
ancitabinum ancitabine	(2 <i>R</i> ,3 <i>R</i> ,3 <i>aS</i> ,9 <i>aR</i>)-2,3,3 <i>a</i> ,9 <i>a</i> -tetrahydro-3-hydroxy-6-imino-6 <i>H</i> -furo-[2',3'; 4,5]oxazolo[3,2- <i>a</i>]pyrimidine-2-methanol C ₉ H ₁₁ N ₃ O ₄
anilopamum anilopam	(-)-3-(<i>p</i> -aminophenethyl)-2,3,4,5-tetrahydro-8-methoxy-2-methyl-1 <i>H</i> -3-benzazepine C ₂₀ H ₂₆ N ₂ O
antrafeninum antrafenine	2-[4-(α,α,α -trifluoro- <i>m</i> -tolyl)-1-piperazinyl]ethyl <i>N</i> -[7-(trifluoromethyl)-4-quinolyl]anthranilate C ₃₀ H ₂₆ F ₆ N ₄ 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,

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.

arbaprostilum arbaprostil	(<i>E,Z</i>)-(1 <i>R</i> ,2 <i>R</i> ,3 <i>R</i>)-7-[3-hydroxy-2-[(3 <i>R</i>)-(3-hydroxy-3-methyl-1-octenyl)]-5-oxocyclopentyl]-5-heptenoic acid C ₂₁ H ₃₄ O ₅
auranofinum auranofin	(1-thio-β-D-glucopyranosato)(triethylphosphine)gold 2,3,4,6-tetraacetate C ₂₀ H ₃₄ AuO ₉ PS
azabuperonum azabuperone	4'-fluoro-4-(hexahydropyrrolo[1,2- <i>a</i>]pyrazin-2(1 <i>H</i>)-yl)butyrophenone C ₁₇ H ₂₃ FN ₂ O
azosemidum azosemide	2-chloro-5-(1 <i>H</i> -tetrazol-5-yl)- <i>N</i> ⁴ -2-thenylsulfanilamide C ₁₂ H ₁₁ ClN ₅ O ₂ S ₂
beclobratum beclobrate	ethyl (±)-2-[[α-(<i>p</i> -chlorophenyl)- <i>p</i> -tolyl]oxy]-2-methylbutyrate C ₂₀ H ₂₃ ClO ₃
befuralinum befuraline	1-(2-benzofuranylcarbonyl)-4-benzylpiperazine C ₂₀ H ₂₀ N ₂ O ₂
benoxaprofenum benoxaprofen	2-(<i>p</i> -chlorophenyl)-α-methyl-5-benzoxazoleacetic acid C ₁₆ H ₁₂ ClNO ₃
bezafibratum bezafibrate	2-[<i>p</i> -[2-(<i>p</i> -chlorobenzamido)ethyl]phenoxy]-2-methylpropionic acid C ₁₉ H ₂₀ ClNO ₄
bisorcicum bisorcic	<i>N</i> ² , <i>N</i> ⁵ -diacetyl-L-ornithine C ₉ H ₁₆ N ₂ O ₄
bitolterolum bitolterol	4-[2-(<i>tert</i> -butylamino)-1-hydroxyethyl]- <i>o</i> -phenylene di- <i>p</i> -toluate C ₂₈ H ₃₁ NO ₅
bornaprinum bornaprine	3-(diethylamino)propyl 2-phenyl-2-norbornanecarboxylate C ₂₁ H ₃₁ NO ₂
bromisovalum bromisoval	2-bromo-3-methylbutyrylurea C ₆ H ₁₁ BrN ₂ O ₂
bucainidum bucainide	1-hexyl-4-(<i>N</i> -isobutylbenzimidoyl)piperazine C ₂₁ H ₃₅ N ₃
bucumololum bucumolol	8-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]-5-methylcoumarin C ₁₇ H ₂₃ NO ₄
butamisolum butamisolol	(—)-2-methyl-3'-(2,3,5,6-tetrahydroimidazo[2,1- <i>b</i>]thiazol-6-yl)-propionanilide C ₁₅ H ₁₉ N ₃ OS
butoctamidum butoctamide	<i>N</i> -(2-ethylhexyl)-3-hydroxybutyramide C ₁₂ H ₂₅ NO ₂
cafaminolum cafaminol	8-[(2-hydroxyethyl)methylamino]caffeine C ₁₁ H ₁₇ N ₅ O ₃
calcii clofibras calcium clofibrate	calcium 2-(<i>p</i> -chlorophenoxy)-2-methylpropionate C ₂₀ H ₂₀ CaCl ₂ O ₆ or (C ₁₀ H ₁₀ ClO ₃) ₂ Ca
carbacholum carbachol	choline chloride carbamate C ₆ H ₁₅ ClN ₂ O ₂
carbocisteinum carbocisteine	3-[(carboxymethyl)thio]alanine C ₅ H ₉ NO ₄ S
cargutocinum cargutocin	1-butyric acid-6-(L-2-aminobutyric acid)-7-glycineoxytocin C ₄₂ H ₆₅ N ₁₁ O ₁₂
carprofenum carprofen	(±)-6-chloro-α-methylcarbazole-2-acetic acid C ₁₅ H ₁₂ ClNO ₂

cefoxazolum cefoxazole	(6 <i>R</i> ,7 <i>R</i>)-7-[3-(<i>o</i> -chlorophenyl)-5-methyl-4-isoxazolecarboxamido]-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid acetate (ester) C ₂₁ H ₁₈ ClN ₃ O ₇ S
cefrotilium cefrotill	(6 <i>R</i> ,7 <i>R</i>)-3-methyl-8-oxo-7-[2-[<i>p</i> -(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]-acetamido]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid C ₂₀ H ₂₂ N ₄ O ₄ S
ceftezolum ceftezole	(6 <i>R</i> ,7 <i>R</i>)-8-oxo-7-[2-(1 <i>H</i> -tetrazol-1-yl)acetamido]-3-[(1,3,4-thiadiazol-2-ylthio)methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid C ₁₃ H ₁₂ N ₈ O ₄ S ₃
cefuroximum cefuroxime	(6 <i>R</i> ,7 <i>R</i>)-7-[2-(2-furyl)glyoxylamido]-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid (<i>Z</i>)-mono(<i>O</i> -methyloxime) carbamate (ester) C ₁₆ H ₁₆ N ₄ O ₈ S
celiprololum celiprolol	3-[3-acetyl-4-[3-(<i>tert</i> -butylamino)-2-hydroxypropoxy]phenyl]-1,1-diethylurea C ₂₀ H ₃₃ N ₃ O ₄
ciapilomum ciapilome	<i>N</i> -(5-cyano-4-oxo-1(4 <i>H</i>)-pyrimidinyl)acetamide C ₇ H ₆ N ₄ O ₂
ciclazindolum ciclazindol	10-(<i>m</i> -chlorophenyl)-2,3,4,10-tetrahydropyrimido[1,2- <i>a</i>]indol-10-ol C ₁₇ H ₁₅ ClN ₂ O
cimepanolum cimepanol	α -isopropylcyclohexanemethanol C ₁₀ H ₂₀ O
cinprazolum cinprazole	3-[2-[(4-cinnamyl-1-piperazinyl)methyl]benzimidazol-1-yl]propiofenone C ₃₀ H ₃₂ N ₄ O
clodanolenum clodanolene	1-[[5-(3,4-dichlorophenyl)furfurylidene]amino]hydantoin C ₁₄ H ₉ Cl ₂ N ₃ O ₃
clovoxaminum clovoxamine	4'-chloro-5-methoxyvalerophenone (<i>E</i>)- <i>O</i> -(2-aminoethyl)oxime C ₁₄ H ₂₁ ClN ₂ O ₂
dantronum dantron	1,8-dihydroxyanthraquinone C ₁₄ H ₈ O ₄
detajmii bitartras detajmium bitartrate	4-[3-(diethylamino)-2-hydroxypropyl]ajmalinium hydrogen tartrate monohydrate C ₃₁ H ₄₇ N ₃ O ₉ · H ₂ O
dezocinum dezocine	(-)-13 β -amino-5,6,7,8,9,10,11 α ,12-octahydro-5 α -methyl-5,11-methanobenzocyclodecen-3-ol C ₁₆ H ₂₃ NO
dienestrolum dienestrol	4,4'-(diethylidene-ethylene)diphenol C ₁₈ H ₁₈ O ₂
diproxadolum diproxadol	6-chloro-4-(2,3-dihydroxypropyl)-2-methyl-2 <i>H</i> -1,4-benzoxazin-3(4 <i>H</i>)-one C ₁₂ H ₁₄ ClNO ₄
doxaprostum doxaprost	(1 <i>R</i> *,2 <i>R</i> *)-2-[(<i>E</i>)-3-hydroxy-3-methyl-1-octenyl]-5-oxocyclopentaneheptanoic acid C ₂₁ H ₃₆ O ₄
estradioli valeras estradiol valerate	estra-1,3,5(10)-triene-3,17 β -diol 17-valerate C ₂₃ H ₃₂ O ₃
estrarpronicatum estrarpronicate	estradiol 17-nicotinate 3-propionate C ₂₇ H ₃₁ NO ₄
etoforminum etoformin	1-butyl-2-ethylbiguanide C ₈ H ₁₉ N ₅

etoposidum etoposide	4'-demethylepipodophyllotoxin 9-(4,6-O-ethylidene- β -D-glucopyranoside) C ₂₉ H ₃₂ O ₁₃
fendosalum fendosal	5-(4,5-dihydro-2-phenyl-3H-benz[e]indol-3-yl)salicylic acid C ₂₅ H ₁₉ NO ₃
floxacinum floxacin	7-chloro-3,4-dihydro-10-hydroxy-3-(α,α,α -trifluoro- <i>p</i> -tolyl)-1,9(2 <i>H</i>)- acridandione C ₂₀ H ₁₃ ClF ₃ NO ₃
flubendazolum flubendazole	methyl 5-(<i>p</i> -fluorobenzoyl)-2-benzimidazolecarbamate C ₁₆ H ₁₂ FN ₃ O ₃
flubepidum flubepide	<i>N</i> -[[1-(<i>p</i> -fluorobenzyl)-2-pyrrolidinyl]methyl]-5-sulfamoyl- <i>o</i> -anisamide C ₂₀ H ₂₄ FN ₃ O ₄ S
flumequinum flumequine	9-fluoro-6,7-dihydro-5-methyl-1-oxo-1 <i>H</i> ,5 <i>H</i> -benzo[<i>j</i>]quinolizine-2- carboxylic acid C ₁₄ H ₁₂ FN ₃ O ₃
fluoxetinum fluoxetine	(\pm)- <i>N</i> -methyl-3-phenyl-3-[(α,α,α -trifluoro- <i>p</i> -tolyl)oxy]propylamine C ₁₇ H ₁₈ F ₃ NO
flupimazinum flupimazine	2-[[1-[3-[2-(trifluoromethyl)phenothiazin-10-yl]propyl]-4-piperidyl]oxy]- ethanol C ₂₃ H ₂₇ F ₃ N ₂ O ₂ S
flupirtinum flupirtine	ethyl 2-amino-6-[(<i>p</i> -fluorobenzyl)amino]-3-pyridinecarbamate C ₁₅ H ₁₇ FN ₄ O ₂
fluspiperonum fluspiperone	8-[3-(<i>p</i> -fluorobenzoyl)propyl]-1-(<i>p</i> -fluorophenyl)-1,3,8-triazaspiro[4,5]- decan-4-one C ₂₃ H ₂₅ F ₂ N ₃ O ₂
fluvoxaminum fluvoxamine	5-methoxy-4'-(trifluoromethyl)valerophenone (<i>E</i>)- <i>O</i> -(2-aminoethyl)oxime C ₁₅ H ₂₁ F ₃ N ₂ O ₂
fosfonetum natricum fosfonet sodium	phosphonoacetic acid disodium salt monohydrate C ₂ H ₃ Na ₂ O ₅ P · H ₂ O
frentizolum frentizole	1-(6-methoxy-2-benzothiazolyl)-3-phenylurea C ₁₅ H ₁₃ N ₃ O ₂ S
gabexatum gabexate	ethyl <i>p</i> -hydroxybenzoate 6-guanidinoheptanoate C ₁₆ H ₂₃ N ₃ O ₄
gemcadiolum gemcadiol	2,2,9,9-tetramethyl-1,10-decanediol C ₁₄ H ₃₀ O ₂
gemfibrozilum gemfibrozil	2,2-dimethyl-5-(2,5-xylyloxy)valeric acid C ₁₅ H ₂₂ O ₃
glaziovinum glaziovine	(\pm)-glaziovine C ₁₆ H ₁₉ NO ₃
guanclofinum guanclofine	[2-(2,6-dichloroanilino)ethyl]guanidine C ₉ H ₁₂ Cl ₂ N ₄
ibuproxamum ibuproxam	<i>p</i> -isobutylhydratropohydroxamic acid C ₁₃ H ₁₉ NO ₂
imafenium imafen	2,3,5,6-tetrahydro-5-phenyl-1 <i>H</i> -imidazo[1,2- <i>a</i>]imidazole C ₁₁ H ₁₃ N ₃
improsulfanum improsulfan	3,3'-iminodi-1-propanol dimethanesulfonate (ester) C ₈ H ₁₉ NO ₅ S ₂
ipragratinum ipragratine	9-isopropylgranatoline (\pm)-tropate (ester) C ₂₀ H ₂₉ NO ₃

iproxaminum iproxamine	5-[2-(dimethylamino)ethoxy]carvacryl isopropyl carbonate $C_{18}H_{29}NO_4$
iquindaminum iquindamine	1-[[2-(diethylamino)ethyl]amino]-3,4-dihydroisoquinoline $C_{15}H_{23}N_3$
isonixinum isonixin	2-hydroxy-2',6'-nicotinoxylidide $C_{14}H_{14}N_2O_2$
ketazocinum ketazocine	(2 <i>R</i> *,6 <i>S</i> *,11 <i>S</i> *)-3-(cyclopropylmethyl)-3,4,5,6-tetrahydro-8-hydroxy-6,11-dimethyl-2,6-methano-3-benzazocin-1(2 <i>H</i>)-one $C_{18}H_{23}NO_2$
ketotifenum ketotifen	4,9-dihydro-4-(1-methyl-4-piperidylidene)-10 <i>H</i> -benzo[4,5]-cyclohepta[1,2- <i>b</i>]thiophen-10-one $C_{19}H_{19}NOS$
labetalolum labetalol	5-[1-hydroxy-2-[(1-methyl-3-phenylpropyl)amino]ethyl]salicylamide $C_{19}H_{24}N_2O_3$
lofepraminum lofepramine	4'-chloro-2-[[3-(10,11-dihydro-5 <i>H</i> -dibenz[<i>b,f</i>]azepin-5-yl)propyl]methylamino]acetophenone $C_{26}H_{27}ClN_2O$
lonazolacum lonazolac	3-(<i>p</i> -chlorophenyl)-1-phenylpyrazole-4-acetic acid $C_{17}H_{13}ClN_2O_2$
lorajminum lorajmine	ajmaline 17-(chloroacetate) $C_{22}H_{27}ClN_2O_3$
meglitinidum meglitinide	<i>p</i> -[2-(5-chloro- <i>o</i> -anisamido)ethyl]benzoic acid $C_{17}H_{16}ClNO_4$
melperonum melperone	4'-fluoro-4-(4-methylpiperidino)butyrophenone $C_{18}H_{22}FNO$
memantinum memantine	3,5-dimethyl-1-adamantanamine $C_{12}H_{21}N$
mepartricinum mepartricin	a methyl ester of partricin, an antibiotic obtained from cultures of <i>Streptomyces aureofaciens</i> or produced by any other means
mepitiostanum mepitiothane	cyclopentanone 2 <i>α</i> ,3 <i>α</i> -epithio-5 <i>α</i> -androstan-17 <i>β</i> -yl methyl acetal $C_{25}H_{40}O_2S$
mesocarbium mesocarb	3-(<i>α</i> -methylphenethyl)- <i>N</i> -(phenylcarbamoyl)sydnone imine $C_{18}H_{18}N_4O_2$
metapraminum metapramine	10,11-dihydro-5-methyl-10-(methylamino)-5 <i>H</i> -dibenz[<i>b,f</i>]azepine $C_{16}H_{18}N_2$
methocidinum methocidin	hydroxymethylgramicidin
methylbenactyzii bromidum methylbenactyzium bromide	diethyl(2-hydroxyethyl)methylammonium bromide benzilate $C_{21}H_{28}BrNO_3$
metioxatum metioxate	2-(4-methylpiperidino)ethyl 6-ethyl-2,3,6,9-tetrahydro-3-methyl-2,9-dioxothiazolo[5,4- <i>f</i>]quinoline-8-carboxylate $C_{22}H_{27}N_3O_4S$
metirosinum metirosine	(—)- <i>α</i> -methyl-L-tyrosine $C_{10}H_{13}NO_3$
mezlocillinum mezlocillin	(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-3,3-dimethyl-6-[(<i>R</i>)-2-[3-(methylsulfonyl)-2-oxo-1-imidazolidinecarboxamido]-2-phenylacetamido]-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid $C_{21}H_{25}N_5O_8S_2$

mofoximum mofoxime	4-[(<i>p</i> -acetylphenoxy)acetyl]morpholine <i>p</i> -oxime C ₁₄ H ₁₈ N ₂ O ₄
moperonum moperone	4'-fluoro-4-(4-hydroxy-4- <i>p</i> -tolylpiperidino)butyrophenone C ₂₂ H ₂₆ FNO ₂
narasinum narasin	α-ethyl-6-[5-[2-(5-ethyltetrahydro-5-hydroxy-6-methyl-2 <i>H</i> -pyran-2-yl)-15-hydroxy-2,10,12-trimethyl-1,6,8-trioxadispiro[4.1.5.3]pentadec-13-en-9-yl]-2-hydroxy-1,3-dimethyl-4-oxoheptyl]tetrahydro-3,5-dimethyl-2 <i>H</i> -pyran-2-acetic acid C ₄₃ H ₇₂ O ₁₁
nexeridinum nexeridine	1-[2-(dimethylamino)-1-methylethyl]-2-phenylcyclohexanol acetate (ester) C ₁₉ H ₂₉ NO ₂
nibroxanum nibroxane	5-bromo-2-methyl-5-nitro- <i>m</i> -dioxane C ₆ H ₈ BrNO ₄
nicofuranosum nicofuranose	D-fructofuranose 1,3,4,6-tetranicotinate C ₃₀ H ₂₄ N ₄ O ₁₀
nifuralidum nifuralide	2-(allylamino)-4-thiazolecarboxylic acid [3-(5-nitro-2-furyl)allylidene]-hydrazide C ₁₄ H ₁₃ N ₅ O ₄ S
nimidanum nimidane	cyclic methylene (4-chloro- <i>p</i> -tolyl)dithioimidocarbonate C ₉ H ₈ ClNS ₂
nisoxtinum nisoxtine	(±)-3-(<i>o</i> -methoxyphenoxy)- <i>N</i> -methyl-3-phenylpropylamine C ₁₇ H ₂₁ NO ₂
nosiheptidum nosiheptide	an antibiotic obtained from cultures of <i>Streptomyces actuosus</i> 40037, or the same substance produced by any other means. The antibiotic contains a peptide part. C ₅₄ H ₄₃ N ₁₃ O ₁₃ S ₆
nuclotixenum nuclotixene	3-[(2-chlorothioxanthen-9-ylidene)methyl]quinuclidine C ₂₁ H ₂₀ ClNS
octazamidum octazamide	5-benzoylhexahydro-1 <i>H</i> -furo[3,4- <i>c</i>]pyrrole C ₁₃ H ₁₅ NO ₂
octoxinololum octoxinol	α-[<i>p</i> -(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxypoly(oxyethylene) general formula: <div style="text-align: center;"> $\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ \quad \\ \text{H}_3\text{C}-\text{C}-\text{CH}_2-\text{C}-\text{C}_6\text{H}_4-(\text{O}-\text{CH}_2-\text{CH}_2-)_n\text{OH} \\ \quad \\ \text{CH}_3 \quad \text{CH}_3 \end{array}$ </div>
oxaceprolum oxaceprol	(-)-1-acetyl-4-hydroxy-L-proline C ₇ H ₁₁ NO ₄
oxfendazololum oxfendazole	methyl 5-(phenylsulfinyl)-2-benzimidazolecarbamate C ₁₅ H ₁₃ N ₃ O ₃ S
phenylephrinum phenylephrine	(-)- <i>m</i> -hydroxy-α-(methylaminomethyl)benzyl alcohol C ₉ H ₁₃ NO ₂
picafibratum picafibrate	2-(<i>p</i> -chlorophenoxy)-2-methylpropionic acid ester with <i>N</i> -(2-hydroxyethyl)nicotinamide C ₁₈ H ₁₉ ClN ₂ O ₄
piflutixolum piflutixol	1-[3-[6-fluoro-2-(trifluoromethyl)thioxanthen-9-ylidene]propyl]-4-piperidineethanol C ₂₄ H ₂₅ F ₄ NO ₃

pifoximum pifoxime	1-[(<i>p</i> -acetylphenoxy)acetyl]piperidine <i>p</i> -oxime C ₁₅ H ₂₀ N ₂ O ₃
pirbenicillinum pirbenicillin	(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-[(<i>R</i>)-2-[2-(isonicotinimidoylamino)acetamido]-2-phenylacetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid C ₂₄ H ₂₆ N ₆ O ₅ S
pivoxazepamum pivoxazepam	7-chloro-1,3-dihydro-3-hydroxy-5-phenyl-2 <i>H</i> -1,4-benzodiazepin-2-one pivalate (ester) C ₂₀ H ₁₉ ClN ₂ O ₃
pleuromulinum pleuromulin	glycolic acid 8-ester with octahydro-5,8-dihydroxy-4,6,9,10-tetramethyl-6-vinyl-3 <i>a</i> ,9-propano-3 <i>aH</i> -cyclopentacycloocten-1 (4 <i>H</i>)-one C ₂₂ H ₃₄ O ₅
praziquantelum praziquantel	2-(cyclohexylcarbonyl)-1,2,3,6,7,11 <i>b</i> -hexahydro-4 <i>H</i> -pyrazino[2,1- <i>a</i>]-isoquinolin-4-one C ₁₉ H ₂₄ N ₂ O ₂
proglumetacinum proglumetacin	3-[4-(2-hydroxyethyl)-1-piperazinyl]propyl DL-4-benzamido- <i>N,N</i> -dipropylglutaramate 1-(<i>p</i> -chlorobenzoyl)-5-methoxy-2-methylindole-3-acetate (ester) C ₄₆ H ₅₈ ClN ₅ O ₈
propisergidum propisergide	9,10-didehydro- <i>N</i> -[(<i>S</i>)-2-hydroxy-1-methylethyl]-1,6-dimethylergoline-8 <i>β</i> -carboxamide C ₂₀ H ₂₅ N ₃ O ₂
quinocidum quinocide	8-[(4-aminopentyl)amino]-6-methoxyquinoline C ₁₅ H ₂₁ N ₃ O
rotamicillinum rotamicillin	(2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-3,3-dimethyl-7-oxo-6-[(<i>R</i>)-2-phenyl-2-[2-[<i>p</i> -(1,4,5,6-tetrahydro-2-pyrimidinyl)phenyl]acetamido]acetamido]-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid C ₂₈ H ₃₁ N ₅ O ₅ S
securininum securinine	(6 <i>S</i> ,11 <i>aR</i> ,11 <i>bS</i>)-9,10,11,11 <i>a</i> -tetrahydro-8 <i>H</i> -6,11 <i>b</i> -methanofuro[2,3- <i>c</i>]-pyrido[1,2- <i>a</i>]azepin-2(6 <i>H</i>)-one C ₁₃ H ₁₅ N ₂ O ₂
sepazonii chloridum sepazonium chloride	1-[2,4-dichloro- <i>β</i> -[(2,4-dichlorobenzyl)oxy]phenethyl]-3-phenethylimida-zolium chloride C ₂₆ H ₂₃ Cl ₅ N ₂ O
serfibratum serfibrate	2-acetamido-4-mercaptopbutyric acid 2-(<i>p</i> -chlorophenoxy)-2-methyl-propionate (ester) C ₁₆ H ₂₀ ClNO ₅ S
stevaladilum stevaladil	3 <i>β</i> -(dimethylamino)-5 <i>a</i> -pregnane-18,20 <i>a</i> -diol diacetate (ester) C ₂₇ H ₄₅ N ₂ O ₄
sulmarinum sulmarin	6,7-dihydroxy-4-methylcoumarin bis(hydrogensulfate) C ₁₀ H ₈ O ₁₀ S ₂
supidimidum supidimide	2-(2-oxo-3-piperidyl)-1,2-benzisothiazolin-3-one 1,1-dioxide C ₁₂ H ₁₂ N ₂ O ₄ S
suprofenum suprofen	<i>p</i> -2-thenoylhydratropic acid C ₁₄ H ₁₂ O ₃ S
tameticillinum tameticillin	2-(diethylamino)ethyl (2 <i>S</i> ,5 <i>R</i> ,6 <i>R</i>)-6-(2,6-dimethoxybenzamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate C ₂₃ H ₃₃ N ₃ O ₆ S
teniposidum teniposide	4'-demethylepipodophyllotoxin 9-(4,6- <i>O</i> -2-thenylidene- <i>β</i> -D-glucopyranoside) C ₃₂ H ₃₂ O ₁₃ S

terbufibrolum terbufibrol	<i>p</i> -[3-(<i>p</i> - <i>tert</i> -butylphenoxy)-2-hydroxypropoxy]benzoic acid C ₂₀ H ₂₄ O ₅
ternidazolium ternidazole	2-methyl-5-nitroimidazole-1-propanol C ₇ H ₁₁ N ₃ O ₃
tiamulinum tiamulin	[[2-(diethylamino)ethyl]thio]acetic acid 8-ester with octahydro-5,8-dihydroxy-4,6,9,10-tetramethyl-6-vinyl-3a,9-propano-3a <i>H</i> -cyclopentacycloocten-1 (4 <i>H</i>)-one C ₂₈ H ₄₇ NO ₄ S
ticlopidinum ticlopidine	5-(<i>o</i> -chlorobenzyl)-4,5,6,7-tetrahydrothieno[3,2- <i>c</i>]pyridine C ₁₄ H ₁₄ ClNS
tiflorexum tiflorex	(+)- <i>N</i> -ethyl- <i>α</i> -methyl- <i>m</i> -[(trifluoromethyl)thio]phenethylamine C ₁₂ H ₁₆ F ₃ NS
timoprazolum timoprazole	2-[(2-pyridylmethyl)sulfinyl]benzimidazole C ₁₃ H ₁₁ N ₃ OS
tioxacinum tioxacin	6-ethyl-2,3,6,9-tetrahydro-3-methyl-2,9-dioxothiazolo[5,4- <i>f</i>]quinoline-8-carboxylic acid C ₁₄ H ₁₂ N ₂ O ₄ S
tiquinamidum tiquinamide	5,6,7,8-tetrahydro-3-(methylthio)-8-quinolinecarboxamide C ₁₁ H ₁₄ N ₂ S
tisopurinum tisopurine	1 <i>H</i> -pyrazolo[3,4- <i>d</i>]pyrimidine-4-thiol C ₅ H ₄ N ₄ S
tizolemidum tizolemide	2-chloro-5-[4-hydroxy-3-methyl-2-(methylimino)-4-thiazolidinyl]-benzenesulfonamide C ₁₁ H ₁₄ ClN ₃ O ₃ S ₂
tofetridinum tofetridine	(–)-1,2,3,4,4a,5,6,10b-octahydro-9-methoxy-10b-methylphenanthridine C ₁₅ H ₂₁ NO
torasemidum torasemide	1-isopropyl-3-[(4- <i>m</i> -toluidino-3-pyridyl)sulfonyl]urea C ₁₆ H ₂₀ N ₄ O ₃ S
tosifenum tosifen	(–)-1-(<i>α</i> -methylphenethyl)-3-(<i>p</i> -tolylsulfonyl)urea C ₁₇ H ₂₀ N ₂ O ₃ S
trebenzominum trebenzomine	(±)- <i>N,N</i> ,2-trimethyl-3-chromanamine, racemate 1 C ₁₂ H ₁₇ NO
trifezolacum trifezolac	1,3,5-triphenylpyrazole-4-acetic acid C ₂₃ H ₁₈ N ₂ O ₂
vindesinium vindesine	3-carbamoyl-4-deacetyl-3-de(methoxycarbonyl)vincal leukoblastine C ₄₃ H ₅₅ N ₅ O ₇
vinpolinum vinpoline	2-hydroxypropyl 14-deoxyvincamate C ₂₃ H ₃₀ N ₂ O ₃

AMENDMENTS TO PREVIOUS LISTS

Vol. 13, No. 12

Recommended International Nonproprietary Names (Rec. INN): List 3

p. 468 *delete the following entries*

macrogoli lauras 600
macrogol laurate 600

macrogoli oleas 600
macrogol oleate 600

macrogoli stearas 600
macrogol stearate 600

insert

macrogoli ester
macrogol ester

macrogoli stearas 1000
macrogol stearate 1000

monoester derived from a polyethylene glycol and a fatty acid of general formula
 $\text{H}-(\text{OCH}_2\text{CH}_2)_n-\text{OOCR}$

Contains small amounts of the corresponding diester and unesterified glycol. Each macrogol ester name is followed by a number corresponding approximately to the average molecular weight of the polyethylene glycol portion. e.g. macrogol laurate 600, macrogol oleate 600, macrogol stearate 400, 600, 1000 and 2000.

Vol. 16, No. 3

Recommended International Nonproprietary Names (Rec. INN): List 4

p. 109 *delete the following entry*

poloxalkolum
poloxalkol

Vol. 21, No. 12

Recommended International Nonproprietary Names (Rec. INN): List 7

p. 541/2 *delete the following entries*

dextranum 40
dextran 40

dextranum 45
dextran 45

dextranum 75
dextran 75

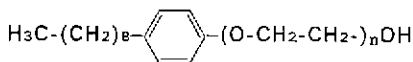
dextranum 110
dextran 110

dextranum 150
dextran 150

insert

dextranum
dextran

polyanhydroglucose produced by the action of *Leuconostoc mesenteroides* on sucrose and subsequent controlled hydrolysis and fractionation of the high molecular weight dextran thus formed, or the same substance obtained by any other means. The weight-average molecular weight is referred to by a specifying number: e.g. dextran 40, 45, 70, 110, 150. The number multiplied by 1,000 corresponds to the approximate weight-average molecular weight. e.g. dextran 40 has a weight-average molecular weight of about 40,000.

Recommended International Nonproprietary Names (Rec. INN): List 8p. 467 *delete the following entries*nonoxinolum 4
nonoxinol 4nonoxinolum 15
nonoxinol 15nonoxinolum 9
nonoxinol 9nonoxinolum 30
nonoxinol 30*insert*nonoxinolum
nonoxinol α -(*p*-nonylphenyl)- ω -hydroxypoly(oxyethylene)
General formula:

Each nonoxinol name is followed by a number indicating the approximate number of oxyethylene groups present, e.g. nonoxinol 4, 9, 15, and 30, and the individual chemical names may contain a specific numerical syllable for the same purpose.

Vol. 26, No. 10

Recommended International Nonproprietary Names (Rec. INN): List 12p. 481 *delete the following entries*poloxamerum 331
poloxamer 331poloxamerum 407
poloxamer 407*insert*poloxamerum
poloxamer α -hydro- ω -hydroxypoly(oxyethylene)poly(oxypropylene)poly(oxyethylene)
block copolymer.General formula $\text{H}-(\text{OCH}_2\text{CH}_2)_a(\text{OCH}(\text{CH}_3)\text{CH}_2)_b(\text{OCH}_2\text{CH}_2)_c\text{-OH}$

Each poloxamer name is followed by a number, e.g., poloxamer 188, 331, 407 etc. The first two digits multiplied by 100 correspond to the approximate average molecular weight of the poly(oxypropylene) portion; the third digit multiplied by 10 corresponds to the percentage by weight of the poly(oxyethylene) portion.

Supplement to Vol. 29, No. 10

Recommended International Nonproprietary Names (Rec. INN): List 15p. 11 ceruletidum
ceruletide*replace chemical name by the following :*

5-oxo-L-prolyl-L-glutaminy-L-aspartyl-L-tyrosyl-L-threonylglycyl-L-tryptophyl-L-methionyl-L-aspartyl-L-phenylalaninamide 4-(hydrogen sulfate) (ester)