

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 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. I.N.N.*): LIST 11²

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
acidum bromebricum bromebric acid	(<i>E</i>)-3- <i>p</i> -anisoyl-3-bromoacrylic acid C ₁₁ H ₉ BrO ₄
acidum capobenicum capobenic acid	6-(3,4,5-trimethoxybenzamido)hexanoic acid C ₁₆ H ₂₃ NO ₆
acidum cinameticum cinametic acid	4-(2-hydroxyethoxy)-3-methoxycinnamic acid C ₁₂ H ₁₄ O ₅
acidum iozomicum iozomic acid	3,3'-[tetramethylenebis[oxy(2-hydroxytrimethylene)(acetylmino)]]-bis[2,4,6-triiodo-5-(<i>N</i> -methylacetamido)benzoic acid] C ₃₄ H ₄₀ I ₆ N ₄ O ₁₂
acidum mycophenolicum mycophenolic acid	(<i>E</i>)-6-(4-hydroxy-6-methoxy-7-methyl-3-oxo-5-phthalanyl)-4-methyl-4-hexenoic acid C ₁₇ H ₂₀ O ₆
acidum polyglycolicum polyglycolic acid	poly(oxy carbonylmethylene) (C ₂ H ₂ O ₂) _n
acidum tienilicum tienilic acid	[2,3-dichloro-4-(2-thenoyl)phenoxy]acetic acid C ₁₃ H ₈ Cl ₂ O ₄ S
acidum tolfenamicum tolfenamic acid	<i>N</i> -(3-chloro- <i>o</i> -tolyl)anthranilic acid C ₁₄ H ₁₂ ClNO ₂
adipheninum adiphenine	2-diethylaminoethyl diphenylacetate C ₂₀ H ₂₅ NO ₂
alibendolum alibendol	5-allyl- <i>N</i> -(2-hydroxyethyl)-3-methoxysalicylamide C ₁₃ H ₁₇ NO ₄
alletorpinum alletorphine	17-allyl-17-demethyl-7α-((<i>R</i>)-1-hydroxy-1-methylbutyl)-6,14-endo-ethenotetrahydrooripavine C ₂₇ H ₃₅ NO ₄
amadinonum amadinone	6-chloro-17-hydroxy-19-norpregna-4,6-diene-3,20-dione C ₂₀ H ₂₅ ClO ₃

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.

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
amcinafalum amcinafal	9-fluoro-11 β ,16 α ,17,21-tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with 3-pentanone C ₂₆ H ₃₅ FO ₆
amcinafidum amcinafide	9-fluoro-11 β ,16 α ,17,21-tetrahydroxypregna-1,4-diene-3,20-dione cyclic 16,17-acetal with acetophenone C ₂₈ H ₃₃ FO ₆
amedalinum amedalin	3-methyl-3-[3-(methylamino)propyl]-1-phenyl-2-indolinone C ₁₉ H ₂₂ N ₂ O
amoxapinum amoxapine	2-chloro-11-(1-piperazinyl)dibenz[<i>b,f</i>][1,4]oxazepine C ₁₇ H ₁₆ ClN ₃ O
aspartamum aspartame	3-amino- <i>N</i> -(α -carboxyphenethyl)succinamic acid <i>N</i> -methyl ester C ₁₄ H ₁₈ N ₂ O ₅
azaprocinum azaprocine	3-cinnamyl-8-propionyl-3,8-diazabicyclo[3.2.1]octan C ₁₈ H ₂₄ N ₂ O
baclofenum baclofen	β -(aminomethyl)- <i>p</i> -chlorohydrocinnamic acid C ₁₀ H ₁₂ ClNO ₂
bekanamycinum bekanamycin	kanamycin B or L- <i>O</i> -3-amino-3-deoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 4)- <i>O</i> -[2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 6)]-2-deoxy- streptamine C ₁₈ H ₃₇ N ₅ O ₁₀
benzobarbitalum benzobarbital	1-benzoyl-5-ethyl-5-phenylbarbituric acid C ₁₉ H ₁₆ N ₂ O ₄
bitipazonum bitipazone	2,3-butanedione bis[4-(2-piperidinoethyl)thiosemicarbazone] C ₂₀ H ₃₈ N ₈ S ₂
bromofosum bromofos	<i>O</i> -(4-bromo-2,5-dichlorophenyl) <i>O,O</i> -dimethyl phosphorothioate C ₈ H ₈ BrCl ₂ O ₃ PS
bumadizonum bumadizone	butylmalonic acid mono(1,2-diphenylhydrazide) C ₁₉ H ₂₂ N ₂ O ₃
bumetanidum bumetanide	3-(butylamino)-4-phenoxy-5-sulfamoylbenzoic acid C ₁₇ H ₂₀ N ₂ O ₅ S
butirosinum butirosin	<i>O</i> -2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 4)- <i>O</i> -[β -D-xylofuranosyl-(1 $\rightarrow$ 5)]- <i>N</i> ¹ -(4-amino-2-hydroxybutyryl)- 2-deoxystreptamine (A form) mixture with <i>O</i> -2,6-diamino-2,6-dideoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 4)- <i>O</i> -[β -D-ribofuranosyl-(1 $\rightarrow$ 5)]- <i>N</i> ¹ -(4-amino-2-hydroxybutyryl)- 2-deoxystreptamine (B form) C ₂₁ H ₄₁ N ₅ O ₁₂
carmustinum carmustine	1,3-bis(2-chloroethyl)-1-nitrosourea C ₅ H ₉ Cl ₂ N ₃ O ₂
carperonum carperone	isopropylcarbamic acid ester with 4'-fluoro-4- (4-hydroxypiperidino)butyrophenone C ₁₉ H ₂₇ FN ₂ O ₃
chlormerodrinum (¹⁹⁷ Hg) chlormerodrin (¹⁹⁷ Hg)	[3-(chloromercuri- ¹⁹⁷ Hg)-2-methoxypropyl]urea C ₅ H ₁₁ ClHgN ₂ O ₂
cinmetacinum cinmetacin	1-cinnamoyl-5-methoxy-2-methylindole-3-acetic acid C ₂₁ H ₁₉ NO ₄
clanobutinum clanobutin	4-[<i>p</i> -chloro- <i>N</i> -(<i>p</i> -methoxyphenyl)benzamido]butyric acid C ₁₈ H ₁₈ ClNO ₄
clobazamum clobazam	7-chloro-1-methyl-5-phenyl-1 <i>H</i> -1,5-benzodiazepine- 2,4(3 <i>H</i> ,5 <i>H</i>)-dione C ₁₆ H ₁₃ ClN ₂ O ₂
clobenosidum clobenoside	ethyl 5,6-bis- <i>O</i> -(<i>p</i> -chlorobenzyl)-3- <i>O</i> -propyl-D-glucufuranoside C ₂₅ H ₃₂ Cl ₂ O ₆

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
clobenzepamum clobenzepam	7-chloro-10-[2-(dimethylamino)ethyl]-5,10-dihydro- 11 <i>H</i> -dibenzo[<i>b,e</i>][1,4]diazepin-11-one C ₁₇ H ₁₄ ClN ₃ O
clotrimazolum clotrimazole	1-(<i>o</i> -chloro- α,α -diphenylbenzyl)imidazole C ₂₂ H ₁₇ ClN ₂
cloxifenolum cloxifenol	5-chloro-2-(2,4-dichlorophenoxy)phenol C ₁₂ H ₇ Cl ₃ O ₂
cyanocobalaminum (⁵⁷ Co) cyanocobalamin (⁵⁷ Co)	vitamin B ₁₂ containing radioactive cobalt (⁵⁷ Co) C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P
cyanocobalaminum (⁵⁸ Co) cyanocobalamin (⁵⁸ Co)	vitamin B ₁₂ containing radioactive cobalt (⁵⁸ Co) C ₆₃ H ₈₈ CoN ₁₄ O ₁₄ P
daledalinum daledalin	3-methyl-3-[3-(methylamino)propyl]-1-phenylindoline C ₁₉ H ₂₄ N ₂
decimemidum decimemide	4-(decyloxy)-3,5-dimethoxybenzamide C ₁₉ H ₃₁ NO ₄
delfantrinum delfantrine	<i>N</i> ¹ , <i>N</i> ¹ -dimethyl-3-[(4-methyl-1-piperazinyl)carbonyl]sulfanilamide C ₁₄ H ₂₂ N ₄ O ₃ S
demegestonum demegestone	17-methyl-19-norpregna-4,9-diene-3,20-dione C ₂₁ H ₂₈ O ₂
denaverinum denaverine	2-(dimethylamino)ethyl (2-ethylbutoxy)diphenylacetate C ₂₄ H ₃₃ NO ₃
denpidazonum denpidazone	4-butyl-1,2-dihydro-5-hydroxy-1,2-diphenyl-3,6-pyridazinedione C ₂₀ H ₂₀ N ₂ O ₃
deterenolum deterenol	($\pm$)- <i>p</i> -hydroxy- α -[(isopropylamino)methyl]benzyl alcohol C ₁₁ H ₁₇ NO ₂
dibusadolum dibusadol	<i>N</i> -[4-(diethylamino)butyl]salicylamide acetate (ester) C ₁₇ H ₂₆ N ₂ O ₃
dicarbinum dicarbine	2,3,4,4a,5,9b-hexahydro-2,8-dimethyl-1 <i>H</i> -pyrido[4,3- <i>b</i>]indole C ₁₃ H ₁₈ N ₂
dicolinii iodidum dicolinium iodide	2-carboxy-1,1,6-trimethylpiperidinium iodide, ester with diethyl- (2-hydroxyethyl)methylammonium iodide C ₁₆ H ₃₄ I ₂ N ₂ O ₂
dicoumarolum dicoumarol	3,3'-methylenebis(4-hydroxycoumarin) C ₁₉ H ₁₂ O ₆
dimepregnenum dimepregnen	3 β -hydroxy-6 α ,16 α -dimethylpregn-4-en-20-one C ₂₃ H ₃₆ O ₂
dotefonii bromidum dotefonium bromide	1-methyl-1-[2-(<i>N</i> -methyl- α -2-thienylmandelamido)ethyl]- pyrrolidinium bromide C ₂₀ H ₂₇ BrN ₂ O ₂ S
doxorubicinum doxorubicin	an antibiotic obtained from cultures of a mutant of <i>Streptomyces peuceticus</i> , or the same substance obtained by any other means (1 <i>S</i> ,3 <i>S</i>)-3-glycoloyl-1,2,3,4,6,11-hexahydro-3,5,12-trihydroxy- 10-methoxy-6,11-dioxo-1-naphthacenyl 3-amino-2,3,6-trideoxy- α -L- <i>lyxo</i> -hexopyranoside C ₂₇ H ₂₉ NO ₁₁
drotebanolum drotebanol	3,4-dimethoxy-17-methylmorphinan-6 β ,14-diol C ₁₉ H ₂₇ NO ₄
enfluranum enflurane	2-chloro-1,1,2-trifluoroethyl difluoromethyl ether C ₃ H ₂ ClF ₅ O
eniprazolum eniprazole	1-(<i>o</i> -chlorophenyl)-4-[2-(1-methylpyrazol-4-yl)ethyl]piperazine C ₁₆ H ₂₁ ClN ₄

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
epicillinum epicillin	6-[D-2-amino-2-(1,4-cyclohexadien-1-yl)acetamido]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid $C_{16}H_{21}N_3O_4S$
eprazinonum eprazinone	3-[4-(β -ethoxyphenethyl)-1-piperazinyl]-2-methylpropiphenone $C_{24}H_{32}N_2O_2$
estramustinum estramustine	estra-1,3,5(10)-triene-3,17 β -diol 3-[bis(2-chloroethyl)carbamate] $C_{23}H_{31}Cl_2NO_3$
estofuratum estofurate	21,23-epoxy-19,24-dinor-17 α -chola-1,3,5(10),7,20,22-hexaene-3,17-diol 3-acetate $C_{24}H_{26}O_4$
etasulinum etasuline	6-chloro-2-(ethylamino)-4-phenyl-4 <i>H</i> -3,1-benzothiazine $C_{16}H_{15}ClN_2S$
etifelminum etifelmine	2-(diphenylmethylene)butylamine $C_{17}H_{19}N$
etifoxinum etifoxine	6-chloro-2-(ethylamino)-4-methyl-4-phenyl-4 <i>H</i> -3,1-benzoxazine $C_{17}H_{17}ClN_2O$
etofamidum etofamide	2,2-dichloro- <i>N</i> -(2-ethoxyethyl)- <i>N</i> -[(<i>p</i> -nitrophenoxy)benzyl]-acetamide $C_{19}H_{20}Cl_2N_2O_5$
ferri (^{59}Fe) citratis injectio ferric (^{59}Fe) citrate injection	a sterile solution containing radioactive iron (^{59}Fe) in the ferric state, 1 per cent w/v of sodium citrate, and sufficient sodium chloride to make the solution isotonic with blood
fexicainum fexicaine	2-(<i>p</i> -butoxyphenoxy)- <i>N</i> -(<i>o</i> -methoxyphenyl)- <i>N</i> -[2-(1-pyrrolidinyl)-ethyl]acetamide $C_{25}H_{34}N_2O_4$
floctafeninum floctafenine	2,3-dihydroxypropyl <i>N</i> -[8-(trifluoromethyl)-4-quinolyl]-anthranilate $C_{20}H_{17}F_3N_2O_4$
fluacizinum fluacizine	10-[3-(diethylamino)propionyl]-2-(trifluoromethyl)phenothiazine $C_{20}H_{21}F_3N_2OS$
fluocinonidum fluocinonide	6 α ,9-difluoro-11 β ,16 α ,17,21-tetrahydroxypregna-1,4-diene-3,20-dione, cyclic 16,17-acetal with acetone, 21-acetate $C_{26}H_{32}F_2O_7$
flunitrazepamum flunitrazepam	5-(<i>o</i> -fluorophenyl)-1,3-dihydro-1-methyl-7-nitro-2 <i>H</i> -1,4-benzodiazepin-2-one $C_{16}H_{12}FN_3O_3$
flurantelum flurantel	2,6-dihydroxy-3-nitro-3',5'-bis(trifluoromethyl)benzanilide diacetate (ester) $C_{19}H_{12}F_6N_2O_7$
flutizenolum flutizenol	4-[3-[6-(trifluoromethyl)-4 <i>H</i> -thieno[2,3- <i>b</i>][1,4]benzothiazin-4-yl]propyl]-1-piperazineethanol $C_{20}H_{24}F_3N_3OS_2$
gliclazidum gliclazide	1-(3-azabicyclo[3.3.0]oct-3-yl)-3-(<i>p</i> -tolylsulfonyl)urea $C_{15}H_{21}N_3O_3S$
glidazamidum glidazamide	1-(hexahydro-1 <i>H</i> -azepin-1-yl)-3-(5-indansulfonyl)urea $C_{16}H_{23}N_3O_3S$
glisoxepidum glisoxepide	1-(hexahydro-1 <i>H</i> -azepin-1-yl)-3-[[<i>p</i> -[2-(5-methyl-3-isoxazolecarboxamido)ethyl]phenyl]sulfonyl]urea $C_{20}H_{27}N_5O_5S$
guaifenesinum guaifenesin	3-(<i>o</i> -methoxyphenoxy)-1,2-propanediol $C_{10}H_{14}O_4$

*Recommended International
Nonproprietary Name
(Latin, English)*

*Chemical Name or Description
and Molecular Formula*

heliomycinum heliomycin	an antibiotic obtained from cultures of <i>Actinomyces flavochromogenes</i> var. <i>heliomycini</i> or the same substance obtained by any other means <chem>C23H18O6</chem>
homiprenorphinum homiprenorphine	22-cyclopropyl-7 α -(<i>R</i>)-1-hydroxy-1-methylpropyl)-6,14- <i>endo</i> -ethenotetrahydrothebaine <chem>C28H37NO4</chem>
imidocarbium imidocarb	3,3'-di-2-imidazolin-2-ylcarbanilide <chem>C19H20N6O</chem>
indoraminum indoramin	<i>N</i> -[1-(2-indol-3-ylethyl)-4-piperidyl]benzamide <chem>C22H26N3O</chem>
letimidum letimide	3-[2-(diethylamino)ethyl]-2 <i>H</i> -1,3-benzoxazine-2,4(3 <i>H</i>)-dione <chem>C14H18N2O3</chem>
lidocainum lidocaine	2-diethylamino-2',6'-acetoxylidide <chem>C14H22N2O</chem>
lisuridum lisuride	3-(9,10-didehydro-6-methylergolin-8 α -yl)-1,1-diethylurea <chem>C20H26N4O</chem>
lorbamatum lorbamate	2-(hydroxymethyl)-2-methylpentyl cyclopropanecarbamate carbamate (ester) <chem>C12H22N2O4</chem>
mannosulfanum mannosulfan	D-mannitol 1,2,5,6-tetramethanesulfonate <chem>C10H22O14S4</chem>
maprotilinum maprotiline	<i>N</i> -methyl-9,10-ethanoanthracene-9(10 <i>H</i>)-propylamine <chem>C20H23N</chem>
mebendazolum mebendazole	methyl 5-benzoyl-2-benzimidazolecarbamate <chem>C18H13N3O3</chem>
melinamidum melinamide	<i>N</i> -(α -methylbenzyl)linoleamide <chem>C28H41NO</chem>
mepiprazolum mepiprazole	1-(<i>m</i> -chlorophenyl)-4-[2-(5-methylpyrazol-3-yl)ethyl]piperazine <chem>C16H21ClN4</chem>
metiprenalinum metiprenaline	α -[(isopropylamino)methyl]vanillyl alcohol <chem>C12H19NO3</chem>
metochalconum metochalcone	2',4,4'-trimethoxychalcone <chem>C18H18O4</chem>
minoxidilum minoxidil	6-amino-1,2-dihydro-1-hydroxy-2-imino-4-piperidinopyrimidine <chem>C9H15N5O</chem>
mitosperum mitosper	an antineoplastic antibiotic obtained from cultures of an <i>Aspergillus</i> of the <i>glaucus</i> group, or the same substance obtained by any other means
mixidinum mixidine	2-[(3,4-dimethoxyphenethyl)imino]-1-methylpyrrolidine <chem>C15H22N2O2</chem>
moracizinum moracizine	ethyl 10-(3-morpholinopropionyl)phenothiazine-2-carbamate <chem>C22H25N3O4S</chem>
moxestrolum moxestrol	11 β -methoxy-19-nor-17 α -pregna-1,3,5(10)-trien-20-yne-3,17 diol <chem>C21H26O3</chem>
nafenopinum nafenopin	2-methyl-2-[<i>p</i> -(1,2,3,4-tetrahydro-1-naphthyl)phenoxy]-propionic acid <chem>C20H22O3</chem>
naproxenum naproxen	(+)-6-methoxy- α -methyl-2-naphthaleneacetic acid <chem>C14H14O3</chem>
naproxolum naproxol	(-)-6-methoxy- β -methyl-2-naphthaleneethanol <chem>C14H16O2</chem>

*Recommended International
Nonproprietary Name
(Latin, English)*

*Chemical Name or Description
and Molecular Formula*

natamycinum natamycin	an antibiotic obtained from cultures of <i>Streptomyces natalensis</i> , or the same substance produced by any other means
natrii iodidum (¹²⁵ I) sodium iodide (¹²⁵ I)	radioactive sodium iodide (¹²⁵ I) NaI
natrii iodohippuras (¹³¹ I) sodium iodohippurate (¹³¹ I)	sodium <i>o</i> -iodohippurate in which a portion of the molecules contain radioactive iodine (¹³¹ I) C ₉ H ₇ INNaO ₃
nefopamum nefopam	3,4,5,6-tetrahydro-5-methyl-1-phenyl-1 <i>H</i> -2,5-benzoxazocine C ₁₇ H ₁₉ NO
niaprazinum niaprazine	<i>N</i> -[3-[4-(<i>p</i> -fluorophenyl)-1-piperazinyl]-1-methylpropyl]-nicotinamide C ₂₀ H ₂₅ FN ₄ O
nifunginum nifungin	an antifungal antibiotic obtained from cultures of <i>Aspergillus giganteus</i> , or the same substance obtained by any other means
nifuratronum nifuratrone	<i>N</i> -(2-hydroxyethyl)- α -(5-nitro-2-furyl)nitron C ₇ H ₈ N ₂ O ₅
nivacortolum nivacortol	2'-(<i>p</i> -fluorophenyl)-2' <i>H</i> -17 α -pregna-2,4-dien-20-yno[3,2- <i>c</i>]-pyrazol-17-ol C ₂₈ H ₃₁ FN ₂ O
nomifensinum nomifensine	8-amino-1,2,3,4-tetrahydro-2-methyl-4-phenylisoquinoline C ₁₆ H ₁₈ N ₂
oxaflozanum oxaflozane	4-isopropyl-2-(α , α , α -trifluoro- <i>m</i> -tolyl)morpholine C ₁₄ H ₁₈ F ₃ NO
oxazidionum oxazidione	2-(morpholinomethyl)-2-phenyl-1,3-indanedione C ₂₀ H ₁₉ NO ₃
oxazolamum oxazolam	10-chloro-2,3,7,11b-tetrahydro-2-methyl-11b-phenyloxazolo-[3,2- <i>d'</i>][1,4]benzodiazepin-6(5 <i>H</i>)-one C ₁₈ H ₁₇ ClN ₂ O ₂
oxazonum oxazone	7-hydroxy-4-(morpholinomethyl)coumarin C ₁₄ H ₁₅ NO ₄
padimatum padimate	mixture of pentyl, isopentyl and 2-methylbutyl <i>p</i> -(dimethylamino)benzoates C ₁₄ H ₂₁ NO ₂
pemeridum pemerid	4-[3-(dimethylamino)propoxy]-1,2,2,6,6,-pentamethylpiperidine C ₁₅ H ₃₂ N ₂ O
penbutololum penbutolol	1-(<i>tert</i> -butylamino)-3-(<i>o</i> -cyclopentylphenoxy)-2-propanol C ₁₈ H ₂₉ NO ₂
pendecamainum pendecamine	(carboxymethyl)dimethyl(3-palmitamidopropyl)ammonium hydroxide inner salt C ₂₃ H ₄₆ N ₂ O ₃
penfluridolum penfluridol	4-(4-chloro- α , α , α -trifluoro- <i>m</i> -tolyl)-1-[4,4-bis(<i>p</i> -fluorophenyl)butyl]-4-piperidinol C ₂₈ H ₂₇ ClF ₅ NO
peratizolum peratizole	1-[4-(2,4-dimethyl-5-thiazolyl)butyl]-4-(4-methyl-2-thiazolyl)-piperazine C ₁₇ H ₂₈ N ₄ S ₂
picolaminum picolamine	3-(aminomethyl)pyridine C ₆ H ₈ N ₂
pipebuzonium pipebuzone	4-butyl-4-[(4-methyl-1-piperazinyl)methyl]-1,2-diphenyl-3,5-pyrazolidinedione C ₂₅ H ₃₂ N ₄ O ₂

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
pipotiazinum pipotiazine	10-[3-[4-(2-hydroxyethyl)piperidino]propyl]- <i>N,N</i> -dimethyl-phenothiazine-2-sulfonamide $C_{24}H_{33}N_3O_3S_2$
piroheptinum piroheptine	3-(10,11-dihydro-5 <i>H</i> -dibenzo[<i>a,d</i>]cyclohepten-5-ylidene)-1-ethyl-2-methylpyrrolidine $C_{22}H_{25}N$
pitofenonum pitofenone	methyl <i>o</i> -(<i>p</i> -(2-piperidinoethoxy)benzoyl)benzoate $C_{22}H_{25}NO_4$
polihexanidum polihexanide	poly(iminoimidocarbonyliminoimidocarbonyliminohexamethylene monohydrochloride) ($C_8H_{17}N_5 \cdot HCl$) _n
pranosalum pranosal	2,5-dimethyl-1-pyrrolidinepropanol salicylate (ester) $C_{16}H_{23}NO_3$
probucolum probucol	acetone bis(3,5-di- <i>tert</i> -butyl-4-hydroxyphenyl)mercaptole $C_{31}H_{48}O_2S_2$
procinololum procinolol	1-(<i>o</i> -cyclopropylphenoxy)-3-(isopropylamino)-2-propanol $C_{15}H_{23}NO_2$
proxibutenum proxibutene	3-[(dimethylamino)methyl]-1,2-diphenyl-3-buten-2-ol propionate (ester) $C_{22}H_{27}NO_2$
proxifezonum proxifezone	(+)-4-(dimethylamino)-3-methyl-1,2-diphenyl-2-butanol propionate (ester) compound with 4-butyl-1,2-diphenyl-3,5-pyrazolidinedione (1 : 1) $C_{22}H_{29}NO_2 \cdot C_{19}H_{20}N_2O_2$
pyrithionum zincicum pyrithione zinc	bis(1-hydroxy-2(1 <i>H</i>)-pyridinethionato)zinc $C_{10}H_8N_2O_2S_2Zn$
quintiofosum quintiofos	<i>O</i> -ethyl <i>O</i> -(8-quinolyl) phenylphosphonothioate $C_{17}H_{16}NO_2PS$
rafozanidum rafozanide	3'-chloro-4'-(<i>p</i> -chlorophenoxy)-3,5-diiodosalicylanilide $C_{19}H_{11}Cl_2I_2NO_3$
robenidinum robenidine	1,3-bis[(<i>p</i> -chlorobenzylidene)amino]guanidine $C_{15}H_{13}Cl_2N_5$
roseum bengalense (¹³¹ I) natricum rose bengal (¹³¹ I) sodium	disodium 4,5,6,7-tetrachloro-2',4',5',7'-tetraiodofluorescein in which a portion of the molecules contain radioactive iodine (¹³¹ I) $C_{20}H_2Cl_4I_4Na_2O_5$
seroalbuminum humanum iodinatum (¹²⁵ I) iodinated (¹²⁵ I) human serum albumin	human serum albumin iodinated with radioactive iodine (¹²⁵ I)
seroalbuminum humanum iodinatum (¹³¹ I) iodinated (¹³¹ I) human serum albumin	human serum albumin iodinated with radioactive iodine (¹³¹ I)
sevofluranum sevoflurane	fluoromethyl 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ether $C_4H_8F_7O$
sisomicinum sisomicin	<i>O</i> -2,6-diamino-2,3,4,6-tetra-deoxy- α -D-glycero-hex-4-enopyranosyl-(1 $\rightarrow$ 4)- <i>O</i> -[3-deoxy-4-C-methyl-3-(methylamino)- β -L-arabinopyranosyl-(1 $\rightarrow$ 6)]-2-deoxy-D-streptamine $C_{19}H_{37}N_5O_7$
spiclomazinum spiclomazine	8-[3-(2-chloro-10-phenothiazinyl)propyl]-1-thia-4,8-diazaspiro[4,5]decan-3-one $C_{22}H_{24}ClN_3O_2S_2$

*Recommended International
Nonproprietary Name
(Latin, English)*

*Chemical Name or Description
and Molecular Formula*

stirimazolum stirimazole	<i>p</i> -[2-(5-nitro-1-vinyl-2-imidazolyl)vinyl]benzoic acid $C_{14}H_{11}N_3O_4$
sulfaclozolum sulfaclozole	<i>N</i> ¹ -[1-(<i>m</i> -chlorophenyl)-3-methyl-5-pyrazolyl]sulfanilamide $C_{16}H_{15}ClN_4O_2S$
sulfaclozinum sulfaclozine	<i>N</i> ¹ -(6-chloropyrazinyl)sulfanilamide $C_{10}H_9ClN_4O_2S$
sulfatrozolum sulfatrozole	<i>N</i> ¹ -(4-ethoxy-1,2,5-thiadiazol-3-yl)sulfanilamide $C_{10}H_{12}N_4O_3S_2$
suncillinum suncillin	3,3-dimethyl-7-oxo-6-[2-phenyl-D-2-(sulfoamino)acetamido]-4-thia-1-azabicyclo[3,2,0]heptane-2-carboxylic acid $C_{16}H_{19}N_3O_7S_2$
suxemeridum suxemerid	bis(1,2,2,6,6-pentamethyl-4-piperidyl) succinate $C_{24}H_{44}N_2O_4$
suxibuzonum suxibuzone	4-butyl-4-(hydroxymethyl)-1,2-diphenyl-3,5-pyrazolidinedione hydrogen succinate (ester) $C_{24}H_{26}N_2O_6$
tefazolinum tefazoline	2-[(5,6,7,8-tetrahydro-1-naphthyl)methyl]-2-imidazoline $C_{14}H_{18}N_2$
tiloronum tilorone	2,7-bis[2-(diethylamino)ethoxy]fluoren-9-one $C_{25}H_{34}N_2O_3$
tinoridinum tinoridine	ethyl 2-amino-6-benzyl-4,5,6,7-tetrahydrothieno[2,3- <i>c</i>]pyridine-3-carboxylate $C_{17}H_{20}N_2O_2S$
tofisolinum tofisoline	1-(3,4-dimethoxyphenyl)-4-ethyl-6,7-dimethoxy-3-methylisoquinoline 2-imide $C_{22}H_{26}N_2O_4$
toldimfosum toldimfos	[4-(dimethylamino)- <i>o</i> -tolyl]phosphinic acid $C_9H_{14}NO_2P$
tolpiprazolum tolpiprazole	1-[2-(5-methylpyrazol-3-yl)ethyl]-4- <i>m</i> -tolylpiperazine $C_{17}H_{24}N_4$
toprilidinum toprilidine	1-[3-(2-pyridyloxy)propyl]-4- <i>o</i> -tolylpiperazine $C_{19}H_{25}N_3O$
tosactidum tosactide	α^1 -28-corticotropin (human) or H-L-Ser-L-Tyr-L-Ser-L-Met-L-Glu-L-His-L-Phe-L-Arg-L-Trp-Gly-L-Lys-L-Pro-L-Val-Gly-L-Lys-L-Lys-L-Arg-L-Arg-L-Pro-L-Val-L-Lys-L-Val-L-Tyr-L-Pro-L-Asp-L-Ala-Gly-L-Glu-OH $C_{150}H_{230}N_{44}O_{36}S$
trantelinii bromidum trantelinium bromide	8-methyltropinium bromide xanthene-9-carboxylate $C_{23}H_{26}BrNO_3$
treloxinatum treloxinate	methyl 2,10-dichloro-12 <i>H</i> -dibenzo[<i>d,g</i>][1,3]dioxocin-6-carboxylate $C_{16}H_{12}Cl_2O_4$
trenbolonum trenbolone	17 β -hydroxyestra-4,9,11-trien-3-one $C_{18}H_{22}O_2$
trepirii iodidum trepirium iodide	2-carboxy-1,1-dimethylpyrrolidinium iodide, ester with (2-hydroxyethyl)trimethylammonium iodide $C_{12}H_{26}I_2N_2O_2$
tretinoinum tretinoin	<i>all trans</i> -retinoic acid $C_{20}H_{28}O_2$
tropsii chloridum tropium chloride	3 α -hydroxyspiro[1 α H,5 α H-nortropane-8,1'-pyrrolidinium]chloride benzilate $C_{25}H_{30}ClNO_3$

<i>Recommended International Nonproprietary Name (Latin, English)</i>	<i>Chemical Name or Description and Molecular Formula</i>
viminolum viminol	1-(<i>o</i> -chlorobenzyl)- α -[(di- <i>sec</i> -butylamino)methyl]pyrrole- 2-methanol $C_{21}H_{31}ClN_2O$
viqidilum viqidil	1-(6-methoxy-4-quinoly)-3-(3-vinyl-4-piperidyl)-1-propanone $C_{20}H_{24}N_2O_2$
visnafyllinum visnafylline	[2-[(9-methoxy-7-methyl-5-oxo-5 <i>H</i> -furo[3,2- <i>g</i>][1]benzopyran- 4-yl)oxy]ethyl]trimethylammonium theophylline derivative $C_{25}H_{29}N_5O_7$
vistatolonum vistatolon	an antiviral antibiotic obtained from cultures of <i>Penicillium stoloniferum</i> , or the same substance produced by any other means
xenonum (^{133}Xe) xenon (^{133}Xe)	radioactive xenon (^{133}Xe) Xe

AMENDMENTS TO PREVIOUS LISTS

Vol. 13, No. 12

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 3

p. 470	<i>delete</i>	<i>insert</i>
	natrii radiochromas (^{61}Cr)	natrii chromas (^{61}Cr)
	sodium radiochromate (^{61}Cr)	sodium chromate (^{61}Cr)
	natrii radiophosphas (^{32}P)	natrii phosphas (^{32}P)
	sodium radiophosphate (^{32}P)	sodium phosphate (^{32}P)

Vol. 16, No. 3

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 4

p. 104	<i>delete</i>	<i>insert</i>
	demethylchlortetracyclinum	demeclocyclinum
	demethylchlortetracycline	demeclocycline
p. 111	<i>delete</i>	<i>insert</i>
	triacetyloleandomycinum	troleandomycinum
	triacetyloleandomycin	troleandomycin

Vol. 19, No. 6

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 5

p. 250	<i>delete</i>	<i>insert</i>
	natrii radio-iodidum (¹³¹ I)	natrii iodidum (¹³¹ I)
	sodium radio-iodide (¹³¹ I)	sodium iodide (¹³¹ I)
p. 252	<i>delete</i>	<i>insert</i>
	radio-aurum (¹⁹⁸ Au) colloidal	aurum (¹⁹⁸ Au) colloidal
	radio gold (¹⁹⁸ Au) colloidal	gold (¹⁹⁸ Au) colloidal
	radiocyanocobalaminum (⁶⁰ Co)	cyanocobalaminum (⁶⁰ Co)
	radiocyanocobalamin (⁶⁰ Co)	cyanocobalamin (⁶⁰ Co)
	radiotolpovidonum (¹³¹ I)	tolpovidonum (¹³¹ I)
	radiotolpovidone (¹³¹ I)	tolpovidone (¹³¹ I)

Vol. 20, No. 11

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 6

p. 431	<i>delete</i>	<i>insert</i>
	radioselenomethioninum (⁷⁶ Se)	selenomethioninum (⁷⁶ Se)
	radioselenomethionine (⁷⁶ Se)	selenomethionine (⁷⁶ Se)

Vol. 21, No. 12

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 7

p. 547	<i>delete</i>	<i>insert</i>
	oleum radio-ethiodatum (¹³¹ I)	oleum ethiodatum (¹³¹ I)
	radio-ethiodized oil (¹³¹ I)	ethiodized (¹³¹ I) oil
p. 549	<i>delete</i>	<i>insert</i>
	radiomerisoprolum (¹⁹⁷ Hg)	merisoprolum (¹⁹⁷ Hg)
	radiomerisoprol (¹⁹⁷ Hg)	merisoprol (¹⁹⁷ Hg)

Vol. 22, No. 10

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 8

p. 467	<i>delete</i>	<i>insert</i>
	natrii radioiotalamas (¹²⁵ I)	natrii iotalamas (¹²⁵ I)
	sodium radioiotalamate (¹²⁵ I)	sodium iotalamate (¹²⁵ I)
	natrii radioiotalamas (¹³¹ I)	natrii iotalamas (¹³¹ I)
	sodium radioiotalamate (¹³¹ I)	sodium iotalamate (¹³¹ I)

p. 468	<i>delete</i>	
	piridoxilatum	[(5-hydroxy-4-hydroxymethyl-6-methyl-3-pyridyl)methoxy]glycolic acid
	piridoxilate	$C_{10}H_{13}NO_4$
	<i>insert</i>	
	piridoxilatum	[[5-hydroxy-4-(hydroxymethyl)-6-methyl-3-pyridyl]methoxy]glycolic acid
	piridoxilate	compound with [[4,5-bis(hydroxymethyl)-2-methyl-3-pyridyl]oxy]glycolic acid (1:1) $C_{10}H_{13}NO_4 \cdot C_{10}H_{13}NO_4$
	<i>delete</i>	<i>insert</i>
	radiocesii chloridum (^{131}Cs)	cesii (^{131}Cs) chloridum
	radiocesium chloride (^{131}Cs)	cesium (^{131}Cs) chloride

Vol. 24, No. 11

RECOMMENDED INTERNATIONAL NONPROPRIETARY NAMES (*Rec. I.N.N.*): LIST 10

p. 526	<i>delete</i>	<i>insert</i>
	acidum difenoxilicum	difenoxinum
	difenoxilic acid	difenoxin
p. 528	<i>delete</i>	<i>insert</i>
	dexbenzetimidum	dexetimidum
	dexbenzetimide	dexetimide
p. 533	vidarabinum	replace molecular formula by $C_{10}H_{13}N_5O_4$
	vidarabine	