# 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 9 2

Recommended International Nonproprietary Name (Latin, English)

and Molecular Formula

acidum canrenoicum canrenoic acid

acidum cicrotoicum cicrotoic acid

acidum clofibricum

clofibric acid

acidum clorindanicum

clorindanic acid

acidum ellagicum ellagic acid

acidum iobutoicum

iobutoic acid

acidum metiazinicum metiazinic acid

acidum yohimbicum yohimbic acid

acridorexum

acridorex

alexidinum alexidine

alphameprodinum

alphameprodine alphaprodinum

alphaprodine

ambenoxanum ambenoxan

amouinatum amquinate

17-hydroxy-3-oxo-17a-pregna-4.6-diene-21-carboxylic acid

Chemical Name or Description

C22H30O4

 $\beta$ -methylcyclohexaneacrylic acid

C10H16Q2

2-(p-chlorophenoxy)-2-methylpropionic acid

C15H11CIO3

7-chloro-4-hydroxy-5-indancarboxylic acid

C10HeClO3

2,3,7,8-tetrahydroxy[1]benzopyrano[5,4,3-cde][1]benzopyran-

4-[2,4,6-trilodo-3-(morpholinocarbonyl)phenoxy]butyric acid

5,10-dione C14H6Os

C15H14I3NO5

10-methylphenothiazine-2-acetic acid

C15H13NO2S

17a-hydroxyyohimban-16a-carboxylic acid

C20H24N2O3

9-[2-[(a-methylphenethy)amino]ethyl]acridine

C24H24N2

1,1'-hexamethylenebis[5-(2-ethylhexyl)biguanide]

C28H58N10

a-3-ethyl-1-methyl-4-phenyl-4-propionoxypiperidine

C17H25NO2

a-1,3-dimethyl-4-phenyl-4-propionoxypiperidine

C16H23NO2

N-[2-(2-methoxyethoxy)ethyl]-1,4-benzodioxan-2-methylamine

methyl 7-(diethylamino)-4-hydroxy-6-propyl-3-quinolinecarboxylate

<sup>&</sup>lt;sup>1</sup> Off Rec. Wld Hith Org., 1955, 60, 3 (Resolution EB15.R7); 1969, 173, 10 (Resolution EB43.R9)

Other lists of recommended international nonproprietary names can be found in Chron. Wid Hith 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.

### Chemical Name or Description and Molecular Formula

androstanolonum 3a-hydroxy-5β-androstan-17-one

androstanolone C19H30O2

aptocainum 2-methyl-1-pyrrolidineaceto-o-toluidide

aptocaine C<sub>14</sub>H<sub>20</sub>N<sub>2</sub>O

 
 aranotinum
 5,5a,13,13a-tetrahydro-5,13-dihydroxy-8H,16H-7a,15a-epidithioaranotin
 7H,15H-bisoxepino[3',4':4,5]pyrrolo[1,2-a:1',2'-d]pyrazine-7,15

dione 5-acetate C20H10N2O7S2

azaquinzolum 1,3,4,6,7,11b-hexahydro-2H-pyrazino[2,1-a]iosquinoline

azaquinzole C12H16N

azaserinum L-serine diazoacetate (ester)

azaserine C<sub>5</sub>H<sub>7</sub>N<sub>3</sub>O<sub>4</sub>

benmoxinum benzoic acid 2-(a-methylbenzyl)hydrazide

benmoxin C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O

benorilatum 4-acetamidophenyl salicylate acetate

benorilate C17H15NO5

betameprodinum  $\beta$ -3-ethyl-1-methyl-4-phenyl-4-propionoxypiperidine

betameprodine C<sub>17</sub>H<sub>25</sub>NO<sub>2</sub>

bisobrinum 1,1'-tetramethylenebis[1,2,3,4-tetrahydro-6,7-dimethoxy-

bisobrin isoquinoline]

C26H36N2O4

boldenonum 17β-hydroxyandrosta-1,4-dien-3-one

boldenone C10H25O2

bromhexinum 3,5-dibromo- $N^a$ -cyclohexyl- $N^a$ -methyltoluene- $\alpha$ -2-diamine

bromhexine C<sub>14</sub>H<sub>20</sub>Br<sub>2</sub>N<sub>2</sub>

bufexamacum 2-(p-butoxyphenyl)-acetohydroxamic acid

bufexamac C12H17NO3

butalbitalum 5-allyl-5-isobutylbarbituric acid

butalbital C11H16N2O2

calcii dobesilas calcium 2,5-dihydroxybenzenesulfonate

calcium dobesilate C12H10CaO:0S2

carbazochromum 3-hydroxy-1-methyl-5,6-indolinedione semicarbazone

carbazochrome C10H12N4O3

carbenicillinum N-(2-carboxy-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-6-yl)-

carbenicillin 2-phenylmalonamic acid

C17H18N2OS

carbomerum a polymer of acrylic acid cross-linked with allyl sucrose

carbomer

cletoquine

cingestolum 19-nor-17a-pregn-5-en-20-yn-17-ol

cingestal C20H2sO

cirolemycinum an antibiotic obtained from cultures of Streptomyces bellus var. cirolemycin cirolerosis var. nova, or the same substance obtained by any other

citenamidum 5H-dibenzo[a,d]cycloheptene-5-carboxamide citenamide C14H12NO

Cibi iiai

cletoquinum 2-[[4-[(7-chloro-4-quinolyl)amino]pentyl]amino]ethanol

C10H22CIN3O

clindamycinum methyl 7-chloro-6,7,8-trideoxy-6-trans-(1-methyl-4-propyl-L-2-clindamycin pyrrolidinecarboxamido)-1-thio-L-threo-a-D-galacto-octopyranoside

 $C \cap C$  in  $C \in C$ 

C12H33CIN2O5S

clogestonum 6-chloro-3\(\beta\_1\)17-dihydroxypregna-4,6-dien-20-one

clogestone C21H25ClO3

Chemical Name or Description and Molecular Formula

clomegestonum

clomegestone

clonidinum

clonidine clopidolum

clopidol clotioxonum

clotioxone creatinolfosfatum creatinolfosfate

dacuronii bromidum dacuronium bromide

decoquinatum

decoguinate desoximetasonum desoximetasone

dexivacainum dexivacaine

dexpropranololum

dexpropranolol diflumidonum

diflumidone difluprednatum difluprednate

diprenorphinum

diprenorphine

ditazolum ditazole

dofamii chloridum dofamium chloride

etisazolum etisazole etolorexum

etolorex famprofazonum famprofazone

fedrilatum fedrilate

fenspiridum fenspiride

fetoxilatum fetoxilate fezationum

fezatione fipexidum fipexide

6-chloro-17-hydroxy-16α-methylpregna-4,6-diene-3,20-dione

C22H20C1Ox

2-(2,6-dichloroanilino)-2-imidazoline CaHaClaNa

3,5-dichloro-2,6-dimethyl-4-pyridinol

C7H7CI2NO 2-phenyl-4-[(trichloromethyl)thio]-42-1,3,4-oxadiazolin-5-one

C<sub>1</sub>H<sub>5</sub>Cl<sub>3</sub>N<sub>2</sub>O<sub>2</sub>S 1-(2-hydroxyethyl)-1-methylguanidine dihydrogen phosphate (ester)

C4H12N1O4P  $(3\alpha,17\beta$ -dihydroxy- $5\alpha$ -androstan- $2\beta,16\beta$ -ylene)bis(1-methylpiperidinium)dibromide 3-acetate

C33H51B12N2O3

ethyl 6-(decyloxy)-7-ethoxy-4-hydroxy-3-quinolinecarboxylate C24H35NO5

9-fluoro-11β,21-dihydroxy-16α-methylpregna-1,4-diene-3,20-dione C22H29FO4

(+)-1-methyl-2',6'-pipecoloxylidide C19H22N2O

(+)-1-(isopropylamino)-3-(1-naphthyloxy)-2-propanol C16H21NO2

3'-benzoyl-1,1-difluoromethanesulfonanilide C14H11F2NO3S

6a,9-difluoro-11\beta,17,21-trihydroxypregna-1,4-diene-3,20-dione

21-acetate 17-butyrate C27H34F2Q7

21-cyclopropyl-6,7,8,14-tetrahydro-7-α-(1-hydroxy-1-methylethyl)-

6,14-endo-ethanooripavine C26H35NO4

2,2'-[(4,5-diphenyl-2-oxazolyl)imino]diethanol CiaHzaNzOs

dimethyl[2-(N-methyldodecanamido)ethyl][(phenylcarbamoyl)methyl]ammonium chloride

C25H44CIN3O2

3-(ethylamino)-1,2-benzisothiazole

C+H++N2S

2-[(p-chloro-a,a-dimethylphenethyl)amino]ethanol C12H13CINO

4-isopropyl-2-methyl-3-[[methyl(a-methyl)phenethyl)amino]methyl]-1-phenyl-3-pyrazolin-5-one

CzaHai NaO

1-methyl-3-morpholinopropyl tetrahydro-4-phenyl-2H-pyran-4-carboxylate

C20H29NO4

8-phenethyl-1-oxa-3,8-diazaspiro[4,5]decan-2-one C15H20N2O2

2-phenoxyethyl 1-(3-cyano-3,3-diphenylpropyl)-4-phenylisonipecotate CasHasNaOa

3-[(p-methylbenzylidene)amino]-4-phenyl-4-thiazoline-2-thione

C17H14N2S2

1-[(p-chlorophenoxy)acetyl]-4-piperonylpiperazine C20H22CIN2O4

Chemical Name or Description and Molecular Formula

flualamidum 2-(aliyloxy)-N-[2-(diethylamino)ethyl]- $\alpha$ , $\alpha$ 1 $\alpha$ -trifluoro-p-toluamide

flualamide C17H23F3N2O2

flunidazolum 2-(p-fluorophenyl)-5-nitroimidazole-1-ethanol

flunidazole C11H10FN3O3

fluocortolonum 6a-fluoro-11ß,21-dihydroxy-16a-methylpregna-1,4-diene-3,20-dione

fluocortolone C22H28FO4

flurazepamum 7-chłoro-1-[2-(diethylamino)ethyl]-5-(o-fluorophenyl)-1,3-dihydro-2H-

flurazepam 1,4-benzodiazepin-2-one

C21H23CIFN3O

fopirtolinum 4-[2-[(6-chloro-2-pyridyl)thio]ethyl]morpholine

fopirtoline C11H13CIN2OS

fospiratum dimethyl 3,5,6-trichloro-2-pyridyl phosphate

fospirate C7H1Cl1NO4P

geroquinolum 2-geranylhydroquinone

geroquinol C14H22O2

glibenclamidum 1-[4-[2-(5-chloro-2-methoxybenzamido)ethyl]-

glibenclamide phenylsulfonyl]-3-cyclohexylurea

C23H24CIN3O5S

gloxazonum 3-ethoxy-2-oxobutyraldehyde bis(thiosemicarbazone)

gloxazone CaHsaNeOSz

quanadrelum (1,4-dioxaspiro[4.5]dec-2-ylmethyl)guanidine

guanadrel C10H19N3O2

halofenatum (p-chlorophenyl)[ $(\alpha,\alpha,\alpha-trifluoro-m-tolyl)$ oxy]acetic acid ester with N-

halofenate (2-hydroxyethyl)acetamide

C10H17CIF3NO4

hexoprenalinum a,a'-[hexamethylenebis(iminomethylene)]bis(3,4-dihydroxybenzyl

hexoprenaline alcohol)

C22H32N2O6

homopipramol

homopipramolum 4-[3-(5H-dibenz[b,f]azepin-5-yl)propyl]hexahydro-1H-1,4-diazepine-1-

ethanol Ca4Ha1NaO

hoguizilum 2-hydroxy-2-methylpropyl 4-(6,7-dimethoxy-4-quinazolinyl)-

hoquizil 1-piperazinecarboxylate

C18 H28 N4 O5

ibuverinum isobutyl α-phenylcyclohexaneglycolate

ibuyerine C18H26O2

ipronidazolum 2-isopropyl-1-methyl-5-nitroimidazole

ipronidazole C7H11N2O2

kalii canrenoas potassium 17-hydroxy 3-oxo-17a-pregna-4,6-diene-21-carboxylate

potassium canrenoate C22H29KO4

levamisolum (-)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1-b]thiazole

levamisole C11H12N2S

levodopum (—)-3-(3,4-dihydroxyphenyl)-L-alanine

levodopa C<sub>2</sub>H<sub>11</sub>NO<sub>4</sub>

lidimycinum an antibiotic obtained from cultures of Streptomyces lydicus, or the

lidimycin same substance obtained by any other means

medazepamum 7-chioro-2,3-dihydro-1-methyl-5-phenyl-1*H*-1,4-benzodiazepine

medazepam C16H15CIN2

mefrusidum 4-chloro-N'-methyl-N'-(tetrahydro-2-methylfurfuryl)-m-benzenedi-

sulfonamide

C13H1+C1N2O5S2

metruside

Chemical Name or Description and Molecular Formula

metampicillinum

metampicillin

3,3-dimethyl-6-[2-(methyleneamino)-2-phenylacetamido]-7-oxo-4-

thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid

C17H18N3O4S

metolazonum metolazone

7-chloro-1,2,3,4-tetrahydro-2-methyl-4-oxp-3-o-tolyl-

6-quinazolinesulfonamide

C16H16CIN2O3S

metoserpatum

methyl O-methyl-18-epireserpate metoserpate

milipertinum milipertine

C24H32N2O5

5,6-dimethoxy-3-[2-[4-(o-methoxyphenyl)-1-piperazinyl]ethyl]-2-

methylindole C24H31N3O3

mithramycinum mithramycin

an antibiotic obtained from cultures of Streptomyces tanashiensis,

or the same substance produced by any other means

mitobronitolum

mitobronital

1,6-dibromo-1,6-dideoxy-D-mannitol CaH12BI2O4

mitoguazonum mitoguazone

1,1'-[(methylethanediylidene)dinitrilo]diguanidine CsH12Na

mitotanum mitotane

1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane C14H10Cla

nalbuphinum nalbuphine

17-(cyclobutylmethyl)-4,5a-epoxymorphinan-3,6a,14-triol C21H27NO4

naranolum naranol

8,9,10,11,11a,12-hexahydro-8,10-dimethyl-7aH-naphtho[1',2':5,6]-

pyrano[3,2-c]pyridin-7a-ol

C18H21NO2

niclofolanum niclofolan

4.4'-dichloro-6,6'-dinitro-o,o-biphenol

C12H6Cl2N2O6

nifurfolinum nifurfoline

3-(morpholinomethyl)-1-[(5-nitrofurfurylidene)amino]-hydantoin C13H13N5O6

nifurpiponum nifurpipone

4-methyl-1-piperazineacetic acid (5-nitrofurfurylidene)hydrazide C12H17N5O4

nifurtimoxum

4-[(5-nitrofurfurylidene)amino]-3-methylthiomorpholine 1,1-dioxide

C10H13N3O3S

nifurtimox niridazolum

1-(5-nitro-2-thiazolyl)-2-imidazolidinone

niridazole

C.H.N.O.S

nisobamatum

2-(hydroxymethyl)-2,3-dimethylpentyl carbamate isopropylcarbamate C13H26N2O4

nisobamate

1,1,1,2-tetrafluoroethane

norfluranum norflurane

C<sub>2</sub>H<sub>2</sub>F<sub>4</sub>

nortetrazepamum

nortetrazepam

7-chloro-5-(1-cyclohexen-1-yl)-1,3-dihydro-2H-1,4-benzodiazepin-2-

one

C15H15CIN2O

noxiptilinum noxiptiline

10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-one O-[2-(dimethyl-

amino)ethyl]oxime

C10H22N2O

ormetoprimum ormetoprim

2,4-diamino-5-(6-methylveratryl)pyrimidine

C14H18N4O2

oxifentorexum

oxifentorex

N-benzyl-N,a-dimethylphenethylamine N-oxide

C17N21NO

oxitriptylinum oxitriptyline

2-[(10,11-dihydro-5H-dibenzo[a,d]cyclohepten-5-yl)oxy]-

N.N-dimethylacetamide

C14H21NO2

#### Chemical Name or Description and Molecular Formula

oxprenololum 1-(o-ailyloxyphenoxy)-3-(isopropylamino)-2-propanol

exprenolol C15H23NO3

pentorexum a,a,β-trimethylphenethylamine

pentorex CriHirN

pimeclonum 2-(piperidinomethyl)cyclohexanone

pimeclone C12H21NO

pimefyllinum 7-[2-[(3-pyridylmethyl)amino]ethyl]theophylline

pimetylline C19H14N4O2 pipratecolum a-(3,4-dihydroxyphenyl)-4-(2-methoxyphenyl)-1-piperazineethanol

pipratecol C19H24N2O4

piquizilum isobutyl 4-(6,7-dimethoxy-4-quinazolinyl)-1-piperazinecarboxylate

piguizil C10H24N4O4

polacrilinum a synthetic ion exchange resin which is prepared through the polypolacrilin merization of methacrylic acid and divinylbenzene. It is supplied in

the hydrogen or free acid form.

pramiverinum 4,4-diphenyl-N-isopropylcyclohexylamine

pramiverine C21H27N

prifinii bromidum 3-(diphenylmethylene)-1,1-diethyl-2-methylpyrrolidinium bromide

prifinium bromide C22H24BrN

profadolum m-(1-methyl-3-propyl-3-pyrrolidinyl)phenol

profadol C14H21NO

promolatum 2-morpholinoethyl 2-methyl-2-phenoxypropionate

promolate C16H23NO4

proxyphyllinum 7-(2-hydroxypropyl)theophylline

proxyphylline C10H14N4O3

quazodinum 4-ethyl-6,7-dimethoxyquinazoline

quazodine C12H14N2O2

racefenicolum  $(\pm)$ -threo-2,2-dichloro-N-[ $\beta$ -hydroxy- $\alpha$ -(hydroxymethyl)-p-(methyl-

racefenicol sulfonyl)phenethyl]acetamide

C12H11Cl2NO3S

ranimycinum an antibiotic obtained from cultures of Streptomyces lincolnensis, or

ranimycin the same substance obtained by any other means

C12H11O4

riboprinum N-(3-methyl-2-butenyl)adenosine

riboprine C18H21N1O4

salbutamolum a-[(tert-butylamino)methyl]-4-hydroxy-m-xylene-a,a'-diol

salbutamol C13H21NO3

saletamidum N-[2-(dlethylamino)ethyl]salicylamide

saletamide C12H20N2O2

spirgetinum [2-(6-azaspiro[2.5]oct-6-yl)ethyl]guanidine

spirgetine C10H20N4

an antibiotic obtained from cultures of Streptomyces steffisburgensis steffimycinum

var. steffisburgensis sp. n., or the same substance obtained by any

other means

stercuronii iodidum (cona-4,6-dienin-38-vl)dimethylethylammonium iodide

stercuronium iodide C26H43l N2

sulfadoxinum N1-(5,6-dimethoxy-4-pyrimidinyl)sulfanilamide

sulfadoxina C12H14N4O4S

taloximinum 4-[2-(dimethylamino)ethoxy]-1(2H)phthalazinone oxime

taloximine C12H14N4O2

tetridaminum 4,5,6,7-tetrahydro-2-methyl-3-(methylamino)-2H-indazole

tetridamine C<sub>8</sub>H<sub>15</sub>N<sub>3</sub>

steffimycin

Chemical Name or Description and Molecular Formula

tiapirinolum tiapirinol tetrahydro-2-[3-hydroxy-5-(hydroxymethyl)-2-methyl-4-pyridyl]-

2H-1,3-thiazine-4-carboxylic acid

C12H16N2O4S

tigestolum tigestol

19-nor-17a-pregn-5(10)-en-20-yn-17-ol

C20H28O

tinidazolum tinidazole

1-[2-(ethylsulfonyl)ethyl]-2-methyl-5-nitroimidazole

CiHi3NaO4S

tolquinzolum tolquinzole 2-ethyl-1,3,4,6,7,11b-hexahydro-10-methyl-2H-benzo[a]-

quinolizin-2-ol C14H23NO

tribenosidum tribenoside ethyl 3,5,6-tri-O-benzyl-D-glucofuranoside

C29H34O4

triflumidatum triflumidate

ethyl m-benzoyl-N-[(trifluoromethyl)sulfonyl]-carbanilate

C17H14F3NO3S

tropirinum tropirine 3a-[(5H-benzo[4.5]cyclohepta[1.2-b]pyridyl)-5-oxy]tropane

C22H24N2O

## CORRIGENDA

Vol. 13, No. 2

RECOMMENDED INTERNATIONAL NON-PROPRIETARY NAMES (Rec. I.N.N.): LIST 2

p. 107: delete

propoxyphenum propoxyphene 4-dimethylamino-3-methyl-1,2-diphenyl-2-butanol propionate ester

 $C_{22}H_{29}NO_{2}$ 

Vol. 20, No. 11

RECOMMENDED INTERNATIONAL NON-PROPRIETARY NAMES (Rec. I.N.N.): LIST 6

p. 425: delete

etomidatum

(±)-ethyl 1-(a-methylbenzyl)imidazole-5-carboxylate

etomidate

 $C_{14}H_{16}N_2O_2$ 

insert

etomidatum

(+)-ethyl 1-(a-methylbenzyl)imidazole-5-carboxylate

etomidate

 $C_{14}H_{16}N_2O_2$