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# **The use of common stems in the selection of international nonproprietary names (INN) for pharmaceutical substances**

**June 1994**



Programme on  
International Nonproprietary Names (INN)  
Division of Drug Management & Policies  
World Health Organization  
Geneva



WORLD HEALTH ORGANIZATION  
ORGANISATION MONDIALE DE LA SANTE

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Examples of nonproprietary names have been selected from Lists 1 - 70 of Proposed International Nonproprietary Names. They were compared with:

Stems listed in article 9 of the "General Principles for Guidance in Devising International Nonproprietary Names for Pharmaceutical Substances", Annex to List 67 of proposed INN and some well-established old or new stems not included in article 9. Stems included in article 9 are followed by (a); stems recently deleted from article 9 are followed by (d).

The reference to TRS 581 indicates that the stem is listed in Annex 3 of the 20th Report of the WHO Expert Committee on Nonproprietary Names for Pharmaceutical Substances.

References to syllables in the BAN booklet and USAN and USP Dictionary of Drug Names have also been made wherever applicable. Whenever the BAN or USAN definitions are not identical to the INN definition they are given in brackets under the INN definition.

For each stem, the names have been classified as:

- (a) names in which the preferred stem has been used in accordance with its definition;
- (b) names in which the preferred stem has been used but not in accordance with its definition;
- (c) names which belong to the same group of pharmaceutical substances and in which no preferred stem has been used. (This part of the list is not always complete).

The codes given on the left-hand side under each stem refer to the unofficial WHO pharmacological classification used in the WHO Drug Evaluation and Monitoring Programme.

Note for trade-mark officer:

In line with the WHO World Health Assembly resolution (WHA46.19) it would be appreciated if trade-marks were not derived from INNs and if INN stems were not used in trade-marks. This practice endangers the principle that INNs are public property; it can frustrate the rational selection of further INNs for related substances, and it will ultimately compromise the safety of patients by promoting confusion in drug nomenclature.

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PHARMACOLOGICAL CLASSIFICATION WITH CORRESPONDING COMMON STEMS

		<u>common stem</u>
A000	CNS DEPRESSANTS	
A100	GENERAL ANAESTHETICS	-flurane
A110	GENERAL ANAESTHETICS, VOLATILE	
A120	GENERAL ANAESTHETICS, OTHER	
A200	HYPNOTICS - SEDATIVES	
A210	BARBITURATES	barb
A220	HYPNOTIC - SEDATIVES, OTHER	
A230	MONOUREIDS, HYPNOTIC-SEDATIVES	
A240	CHLORAL DERIVATIVES, HYPNOTIC - SEDATIVES	
A300	CENTRALLY ACTING VOLUNTARY MUSCLE TONE MODIFYING DRUGS	
A310	ANTICONVULSANTS	
A311	HYDANTOINS, ANTICONVULSANTS	-toin
A312	ACETYLUREAS, ANTICONVULSANTS	
A313	OXAZOLIDINEDIONES, ANTICONVULSANTS	
A314	SUCCINIMIDES, ANTICONVULSANTS	
A315	BARBITURATES, ANTICONVULSANTS	
A316	ANTICONVULSANTS, OTHER	
A320	CENTRAL ANTICHOLINERGICS	
A330	CENTRALLY ACTING VOLUNTARY-MUSCLE RELAXANTS	
A400	ANALGESICS	
A410	NARCOTIC ANALGESICS	-adol, -azocine, -eridine, -ethidine, -fentanil, nal-, -orphan
A420	ANALGESIC - ANTIPYRETICS	<u>ac</u> , <u>-adol</u> , or <u>-adol-</u> , -arit, -butazone, <u>-buzone</u> , -icam, -fenamate, -fenamic acid, <u>metacin</u> , -nixin, -profen
A430	ANALGESICS, OTHER	-adol or -adol-, -adom
A440	CENTRAL ANTIEMETICS	
A500	ANTIVERTIGO DRUGS	
B000	CNS STIMULANTS	
B100	ANALECTICS	-fylline, -racetam, vin-
B200	OPIOID RECEPTOR ANTAGONISTS	-orphan, nal-
B300	BENZODIAZEPINE RECEPTOR ANTAGONISTS	
C000	PSYCHOPHARMACOLOGICS	-piprazole
C100	ANXIOLYTIC SEDATIVES	-azepam, -bamate, -perone, -pride, -zafone -spirone, -peridone, -pidem -azenil, -carnil, -quinil
C200	ANTIPSYCHOTICS (NEUROLEPTICS)	
C210	BRAIN AMINE DEPLETERS	
C220	CENTRAL ADRENORECEPTOR ANTAGONISTS	
C300	ANTIDEPRESSANTS	-oxetine
C310	MAO INHIBITORS	-moxin, -giline
C320	TRICYCLIC ANTIDEPRESSANTS	-pramine, -triptyline, -pine
C330	TETRACYCLIC ANTIDEPRESSANTS	
C340	BICYCLIC ANTIDEPRESSANTS	
C400	INDIRECT RELEASERS OF CATECHOLAMINES	
C500	PSYCHODYSLEPTICS (HALLUCINOGENS)	
C600	CNS METABOLITES	
C700	SEROTONIN RECEPTOR ANTAGONISTS	erg, -anserin, -setron

D000 PERIPHERAL NERVOUS SYSTEM DRUGS  
D100 LOCAL ANAESTHETICS -caine

E000 DRUGS ACTING AT SYNAPTIC AND NEUROEFFECTOR JUNCTIONAL SITES gab  
E100 CHOLINERGIC AGENTS -meline  
E110 CHOLINERGIC RECEPTOR AGONISTS  
E111 MUSCARINIC RECEPTOR AGONISTS  
E112 NICOTINIC RECEPTOR AGONISTS  
E120 ANTICHOLINESTERASE AGENTS -stigmine  
E200 CHOLINERGIC ANTAGONISTS trop, -dopa, -golide  
E210 PERIPHERAL CHOLINERGIC ANTAGONISTS  
E220 GANGLIONIC ANTAGONISTS

E300 NEUROMUSCULAR BLOCKING AGENTS -curium

E400 ADRENERGIC AGENTS -azoline, -drine, -terol  
E410 BETA ADRENORECEPTOR AGONISTS  
E420 ALPHA ADRENORECEPTOR AGONISTS

E500 ADRENORECEPTOR ANTAGONISTS  
E510 ALPHA ADRENORECEPTOR ANTAGONISTS  
E520 BETA ADRENORECEPTOR ANTAGONISTS -olol, -alol  
E530 CATECHOLAMINES FALSE TRANSMITTERS  
E540 ADRENERGIC NEURONE BLOCKING AGENTS -serpine  
E600 STIMULANT CATHARTICS

F000 AGENTS ACTING ON SMOOTH MUSCLES  
F100 SPASMOLYTICS, GENERAL -verine  
F200 VASODILATORS -dil  
F210 CORONARY VASODILATORS -dipine, -pamil, -tiazem  
F220 ALSO CALCIUM CHANNEL BLOCKERS -bradine  
PERIPHERAL VASODILATORS -nicate

F300 SMOOTH MUSCLE STIMULANTS  
F310 VASOCONSTRICTOR AGENTS

F400 AGENTS ACTING ON THE UTERUS erg

G000 HISTAMINE AND ANTIHISTAMINICS  
G100 HISTAMINE AND HISTAMINE-LIKE DRUGS  
G200 ANTIHISTAMINICS -astine, -tidine,  
G220 HISTAMINE H2-RECEPTOR ANTAGONISTS  
G230 HISTAMINE H3-RECEPTOR ANTAGONISTS  
G300 HISTAMINE METABOLISM AGENTS

H000 CARDIOVASCULAR AGENTS  
H100 CARDIAC GLYCOSIDES AND DRUGS WITH SIMILAR ACTION -rinone, -eran, -dan  
H200 AGENTS INFLUENCING HEART MUSCLE EXCITABILITY -cain-, -aj-, -ilide  
AND CONDUCTIVITY -isomide, -afenone  
H300 ANTIHYPERTENSIVE -dralazine, guan-, -azosin,  
-pril(at), -(o)nidine  
-kiren, -kalim, -sartan  
H400 ANTIHYPERLIPIDAEMIC DRUGS -fibrate, -nicate  
H500 ANTIVARICOSE DRUGS  
H510 SCLEROSING DRUGS  
H600 CAPILLARY-ACTIVE DRUGS, HAEMOSTYPTICS  
H700 CALCIUM CHANNEL BLOCKERS -ramil

H800 AGENTS INFLUENCING THE RENIN-ANGIOTENSIN SYSTEM  
H810 ANGIOTENSIN CONVERTING ENZYME INHIBITORS  
H820 ANGIOTENSIN RECEPTOR ANTAGONISTS

I000 BLOOD AND AGENTS ACTING ON THE HAEMOPOIETIC SYSTEM (EXCL. CYTOSTATICS)  
 I100 ANTIANAEMIC AGENTS  
 I110 IRON PREPARATIONS  
 I120 HAEMATINICS, OTHER (VIT. B-12, FOLIC ACID, ETC.)  
 I130 MISCELLANEOUS ANTIANAEMIC AGENTS  
  
 I200 AGENTS INFLUENCING BLOOD COAGULATION  
 I210 ANTICOAGULANTS -arol, grel, -pafant  
 I220 PROTHROMBIN INHIBITORS  
 I230 PROTHROMBIN SYNTHESIS INHIBITORS  
 I240 ANTICOAGULANT INHIBITORS  
 I250 AGENTS AFFECTING FIBRINOLYSIS  
 I260 COAGULATION PROMOTING AGENTS  
 I261 BLOOD CLOTTING FACTORS  
  
 I300 BLOOD PROTEINS AND THEIR FRACTIONS -poetin  
 I310 BLOOD SUBSTITUTES (MACROMOLECULAR)  
  
 I400 PLATELET-FUNCTION REGULATORS  
  
 I500 COLONY STIMULATING FACTORS -stim  
 I510 GRANULOCYTE STIMULATING FACTORS -grastim  
 I520 MACROPHAGE/STIMULATING FACTOR -mostin  
  
 J000 AGENTS INFLUENCING THE GASTROINTESTINAL TRACT -pride, -pine, -prazole  
 J100 DIGESTIVES  
 J110 STOMACHICS  
 J120 CHOLERETICS (and hepatoprotective agents) -cic  
 J130 DIGESTIVE ENZYMES  
  
 J200 EMETICS  
  
 J300 HEPATO-PROTECTIVE AGENTS  
  
 J400 GASTRO-INTESTINAL ANTI-INFECTIVES (SEE S000)  
  
 J500 ANTIDIARRHOEALS  
  
 K000 AGENTS INFLUENCING THE RESPIRATORY TRACT -xanox, -cromil, -ast, -steine,  
 -trodist, -lukast, -exine  
 K100 ANTITUSSIVES  
 K110 ANTITUSSIVES - CENTRAL  
 K120 ANTITUSSIVES - PERIPHERAL  
  
 K200 EXPECTORANTS  
  
 L000 ANTINEOPLASTICS -ribine, -mestane, mito-, -platin, -rozole  
 L100 IMMUNOSUPPRESSANTS  
 L200 ALKYLATING AGENTS -mustine, -sulfan, -tepa  
 L300 RADIOISOTOPES (EXCEPT DIAGNOSTICS)  
 L310 RADIOISOTOPES - SYSTEMIC  
 L320 RADIOISOTOPES - LOCALLY APPLIED  
  
 L400 ANTINEOPLASTICS - ANTIMETABOLITES -trexate, -uridine, -fur,  
 L410 ORNITHINE DECARBOXYLASE INHIBITORS -arabine, -citabine  
  
 L500 ANTINEOPLASTICS - NATURAL PRODUCTS (INCL. ANTIBIOTICS) -rubicin  
vin- or -vin-  
  
 L600 ANTINEOPLASTICS - SEX HORMONE ANALOGUES AND INHIBITORS  
 L610 AROMATASE INHIBITORS  
 L620 LUTEINIZING HORMONE-RELEASING HORMONE AGONISTS  
  
 M000 METABOLISM AND NUTRITION (EXCL. WATER AND MINERAL METABOLISM) -stat  
 M100 ANORETICS -orex  
 M200 DIETETICS AND ANTIADPOSITAS DRUGS  
 M210 BULK FORMING DRUGS

M300	AGENTS INFLUENCING LIPID AND FAT METABOLISM	-lipastat, -vastatin
M310	ANTIATHEROSCLEROSIS AGENTS	
M320	LIPOTROPIC AGENTS	
M330	LIPOGENESIS INDUCING AGENTS	
M400	AGENTS INFLUENCING PROTEIN METABOLISM	
M410	ANABOLIC STEROIDS	<u>bol</u>
M420	CATABOLIC AGENTS	
M430	AMINO ACIDS	
M500	AGENTS INFLUENCING CARBOHYDRATE METABOLISM	-reostat
M510	INSULINS	
M520	ORAL ANTIDIABETICS - ISLET MEDIATED	- <u>formin</u> , <u>gli-</u> , -gli-
M530	ORAL ANTIDIABETICS - EXTRA PANCREATIC	
M540	GLUCONEOGENESIS INFLUENCING AGENTS	
M600	AGENTS INFLUENCING URIC ACID METABOLISM	
M610	URICOSURICS	
M620	URIC ACID SYNTHESIS INHIBITORS	
M630	AGENTS INFLUENCING OXALIC ACID METABOLISM	
M700	THYROID AND ANTITHYROIDS	
M710	THYROID AND THYROID HORMONES	
M720	THYROID STIMULATORS	
M730	ANTITHYROIDS	
M740	RADIOACTIVE IODINE AGENTS (FOR THERAPY)	
M800	ENZYMES	
M810	ENZYME INHIBITORS	
M820	ENZYME STIMULATORS	
N000	AGENTS INFLUENCING WATER AND MINERAL METABOLISM	
N100	DIURETICS	
N110	CARBONIC ANHYDRASE INHIBITORS	-semide
N120	SALURETICS	-pamide, -etanide
N121	THIAZIDE DERIVATIVES	-tizide
N122	ETHACRYNIC ACID DERIVATIVES	-crinat
N123	CHLORTALIDONE DERIVATIVES	
N129	SALURETICS, OTHER	
N130	MERCURIAL DIURETICS	-mer-
N170	PURINES AND OTHER DIURETICS	
N180	ALDOSTERONE INHIBITORS	-renone
N200	ACIDIFIERS	
N400	SALINE CATHARTICS	
N500	ALKALIZERS	
N510	PARENTERAL ALKALIZER SOLUTIONS	
N520	ORAL ANTACIDS	-alox
N600	FLUID AND ELECTROLYTE REPLACEMENT THERAPY	
N610	ELECTROLYTE AND CARBOHYDRATE SOLUTIONS	
N700	MINERAL SALTS	
N710	ION EXCHANGE RESINS	
N800	VITAMIN D GROUP AND CALCIUM METABOLISM DRUGS	calci, -dronic acid

P000	VITAMINS	
P100	VITAMIN A	retin
P200	VITAMIN B <sub>1</sub>	
P300	VITAMIN B <sub>2</sub>	
P400	VITAMIN B <sub>6</sub>	
P500	VITAMIN C	
P600	VITAMIN E	
P700	NICOTINIC ACID DERIVATIVES	
P800	VITAMINS, OTHER	
Q000	HORMONES OR HORMONE RELEASE-STIMULATING PEPTIDES	<u>prost</u> , <u>-relin</u> , som-
Q100	HYPOPHYSIS HORMONES	-morelin, -tirelin
Q110	HYPOPHYSIS ANTERIOR LOBE	
Q111	HYPOPHYSIS ANTERIOR LOBE HORMONES	-actide
Q112	HYPOPHYSIS ANTERIOR LOBE INHIBITORS	
Q120	HYPOPHYSIS POSTERIOR LOBE (INCL. OTHER OXYTOCICS)	-pressin, -tocin
Q200	SEX HORMONES AND ANALOGUES	
Q210	ESTROGENS, ALSO INTERCEPTIVE CONTRA- CEPTIVE AGENTS E.G. EPOSTANE (51)	estr
Q220	PROGESTOGENS	<u>gest</u>
Q230	ANTIANDROGENS	andr, or -stan- or -ster-
Q231	ANDROGENS	
Q240	GONADOTROPHINS AND GONADOTROPHIN SECRETION STIMULATING DRUGS	
Q241	ANTIGONADOTROPHINS	
Q300	ADRENOCORTICAL HORMONES AND ANALOGUES	<u>cort</u> , -onide
Q310	MINERALOSTEROIDS	
Q320	MINERALOSTEROID ANTAGONISTS	
Q330	GLUCOSTEROIDS	pred
Q340	GLUCOSTEROIDS ANTAGONISTS	
R000	IMMUNOLOGICALS	
R100	SERA AND IMMUNOGLOBULINS	
R200	VACCINES	
R210	VACCINES, LIVE	
R220	VACCINES, ACTIVATED	
R300	IMMUNOSTIMULANTS	
R310	BIOLOGICAL RESPONSE MODIFIER	
S000	ANTI-INFECTIVES	
S100	ECTOPARASITICIDES	
S200	ANTISEPTICS AND DISINFECTANTS	
S210	ANTISEPTICS (EXCL. HEAVY METAL ANTISEPTICS)	nifur-
S220	HEAVY METAL ANTISEPTICS	-mer-
S230	DETERGENT ANTISEPTICS	
S300	CHEMOTHERAPEUTICS OF PARASITIC DISEASES	-oxanide, -ectin
S310	ANTHELMINTHICS (EXCL. ANTINEMATODE AGENTS)	-antel, -bendazole
S320	ANTINEMATODE AGENTS	fos
S330	ANTIPROTOZOAL AGENTS (INCL. ALL ARSPHENAMINES)	- <u>nidazole</u>
S400	CHEMOTHERAPEUTICS OF FUNGAL DISEASES	-conazole, -pirox
S410	ANTIFUNGAL AGENTS	

S420 FUNGICIDES  
S430 ANTIFUNGAL ANTIBIOTICS

S500 ANTIBIOTICS, ANTIBACTERIAL AND ANTIVIRAL AGENTS  
S510 SULFONAMIDES sulfa-  
S520 ANTIMYCOBACTERIALS -dapsone  
S530 ANTIVIRAL -motine, -uridine, vir, -arabine  
S550 ANTIBACTERIAL/OTHER -oxacin, -prim, -citabine

S600 ANTIBIOTICS (EXCEPT ANTINEOPLASTIC ANTIBIOTICS) -cidin, -fungin,  
-monam, -gillin, -micin, -parcin, -mycin, -penem

S610 ANTIBIOTICS ACTING ON THE BACTERIAL CELL WALL cef-, -cillin, -carbef,  
-oxef

S620 ANTIBIOTICS AFFECTING CELL MEMBRANE AND WITH DETERGENT EFFECT -tricin

S630 ANTIBIOTICS AFFECTING PROTEIN SYNTHESIS -cycline, -kacin  
S640 ANTIBIOTICS AFFECTING NUCLEIC ACID METABOLISM rifa-  
S650 ANTIBIOTICS-ACTION UNCLASSIFIED (including  $\beta$ -lactamase inhibitors) -bactam

S700 IMMUNOMODULATORS AND IMMUNOSTIMULANTS (INCL. GAMMA GLOBULINS) -imex, -imod, -imus,  
S710 INTERFERONS AND IMMUNODILATORS -leukin, -mab, -stim

T000 LOCALLY ACTING AGENTS (INCL. DERMATOLOGIC AND INTERNALLY USED DRUGS).  
T100 LOCALLY ACTING EXTERNALLY-APPLIED AGENTS  
T110 VASODILATORS (EXTERNAL) - RUBEFACIENS

T200 LOCALLY ACTING INTERNALLY-APPLIED AGENTS  
T210 ADSORBENTS, ASTRINGENTS  
T220 LUBRICANT CATHARTICS  
T230 IRRITANT CATHARTICS  
T240 GASTRO-INTESTINAL ANTI-INFECTIVES, NON-RESORBED  
T250 SAPONINS  
T260 DETERGENTS

T300 INTRAVAGINAL CONTRACEPTIVES

U000 MISCELLANEOUS DRUGS -gado  
U100 DIAGNOSTIC AIDS  
U110 RADIOCONTRAST MEDIA io-  
U120 DIAGNOSTIC AIDS, OTHER  
U130 DIAGNOSTIC RADIOISOTOPES  
U200 CHELATING AGENTS, DETOXICANTS, ETC.  
U210 ALCOHOL DETERRENTS

U300 ANTI-INFLAMMATORY AGENTS  
U310 NON-ANTIPYRETIC ANTIRHEUMATICS  
U320 ANTI-INFLAMMATORY AGENTS, OTHER

U400 PHARMACEUTICAL ADJUNCTS

V000 UNCLASSIFIED PHARMACOLOGICAL MECHANISMS  
V100 INTRAUTERINE CONTRACEPTIVE DEVICE  
V200 MEDICINAL PLANTS  
V300 HOMOEOPATHIC PREPARATIONS

W ENZYMES AND VARIOUS stat, -ase

Y VETERINARY DRUGS

ALPHABETICAL LIST OF STEMS TOGETHER WITH CORRESPONDING INNS

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-abine            see -arabine, -citabine

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-ac            anti-inflammatory agents, ibufenac derivatives

USAN

A.4.2.0

TRS 581            (USAN: anti-inflammatory agents (acetic acid derivatives))

- (a)    aceclofenac (52), alclofenac (23), amfenac (38), anirolac (52), bendazac (22), bromfenac (55), cinfenoac (41), clidanac (39), clofurac (42), clopirac (30), diclofenac (28), eltenac (53), etodolac (45), felbinac (54), fenclofenac (30), fenclorac (33), fentiazac (32), furofenac (40), ibufenac (14), isoxepac (37), ketorolac (51), lexofenac (38), oxepinac (36), oxindanac (54), pemedolac (58), (quinclorac, ISO name for a herbicide), sulindac (33), tianafac (31), tifurac (57), tiopinac (40), zomepirac (37),
- zolac:  
bufezolac (39), isofezolac (39), lonazolac (34), mofezolac (64), pirazolac (43), trifezolac (34).
- (b)    bufexamac (20) (anti-inflammatory; acetoxyamic acid group, instead of acetic acid group).
- (c)    clamidoxic acid (17), fenclozic acid (22), metiazinic acid (20), prodolic acid (29), tolmetin (23).
- 

-acetam            see -racetam

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BAN, USAN

-actide (a)    synthetic polypeptides with a corticotropin-like action

Q.1.1.1            (USAN: synthetic corticotropins)

- (a)    alsactide (45), codactide (24), giractide (29), norleusactide (18), scractide (31), tetracosactide (18), tosactide (24), tricosactide (44).

TRS 581

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BAN, USAN

**-adol**            **analgesics (14th Report, 1967)**

or **-adol-**

(USAN: analgesics (undefined group))

A.4.1.0

A.4.2/3.0

- (a) A.4.1.0: acetylmethadol (5), alimadol (39), alphacetylmethadol (5), alphamethadol (5), betacetylmethadol (5), betamethadol (5), levacetylmethadol (27), noracymethadol (12).

A.4.2/3.0: bromadoline (49), ciprofadol (41), ciramadol (39), cloracetadol (16), dibusadol (24), dimenoxadol (7), diproxadol (34), enadoline (68), filenadol (47), flumexadol (36), fluradoline (48), gaboxadol (48), levonantradol (43), lorcinadol (57), moxadolen (45), (deleted in List 48: moxifadol (47)), myfadol (17), nafoxadol (50), nantradol (42), nerbacadol (56), oxapadol (40), picenadol (47), pinadoline (50), pipradimadol (42), pipramadol (42), pravadoline (60), vadoline (60), profadol (20), spiradoline (53), tazadolene (52), tolpadol (48), tramadol (22), veradoline (47).

- (b) hexapradol (12) (CNS stimulant), quinestradol (15) (estrogenic)

- (c) A.4.1.0 dimepheptanol (5)

**-adom**            **analgesics, tipluadom derivatives**

- A.4.3.0 (a) lufuradom (50), tipluadom (48)

**-afenone**        **antiarrhythmics, propafenone derivatives**

- (a) alprafenone (62), berlafenone (63), diprafenone (48), etafenone (19), propafenone (29)

**-aj-**            **antiarrhythmics, ajmaline derivatives**

- II.2.0.0 (a) detajmium bitartrate (34), lorajmine (34), prajmalium bitartrate (23).

**-al (d)**        **aldehydes**  
(deleted from General Principles in 14th Report)

**-aldrate**        **antacids, aluminium salts**

USAN

- (a) carbaldrate (53), potassium glucaldrate (14), sodium glucaspaldrate (17), magaldrate (49), simaldrate (15)

**-alol**            **see -olol**



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USAN

**-anserin**      **serotonin receptor antagonists (mostly 5-HT<sub>2</sub>)**

C.7.0.0      (USAN: serotonin receptor antagonists (undefined group))

    (a)      adatanserin (70), altanserin (50), butanserin (51), fananserin (69),  
            ketanserin (46), lidanserin (62), pelanserin (57), seganserin (56),  
            Tropanserin (55).

    (b)      serotonin receptor antagonists, psychoactive: cinanserin (17), glemanserin  
            (68), mianserin (20), ritanserin (51)

(-anserone      serotonin receptor antagonists (mostly 5-HT<sub>2</sub>) with psychoactive properties?)

**-setron**      serotonin receptor antagonists (5-HT<sub>2</sub>) not fitting into other established  
            groups of serotonin receptor antagonists.

    (a)      alosetron (66), azasetron (68), bemasetron (64), cilansetron (68),  
            dolasetron (65), granisetron (59), itasetron (68), lerisetron (69),  
            lurosetron (69), ondansetron (59), ramosetron (70), ricasetron (70),  
            tropisetron (62), zatosectron (64)

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USAN

**-antel**      **anthelmintics (undefined group)**

S.3.1.0      (USAN: anthelmintics (undefined group))

    (a)      amidantel (40), carbantel (35), closantel (36), epsiprantel (57), fobantel  
            (38), flurantel (25), morantel (22), oxantel (31), pexantel (22),  
            praziquantel (34), pyrantel (17), resorantel (23), salantel (29),  
TRS 581      zilantel (33), antelmocin (15)

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**-apine**      **see -pine**

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USAN

**-(ar)abine**      **arabinofuranosyl derivatives**

L.4.0.0/  
S.5.3.0      (USAN: -arabine: antineoplastic arabinofuranosyl derivatives)

    (a)      - cytarabine (14), fazarabine (56), fludarabine (48), vidarabine  
            (23)  
            - ancitabine (36), enocitabine (46), flurocitabine (38),  
            ibacitabine (57)

    (c)      S.5.3.0: ribavirin (31)

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USAN

**-arit**      **antiarthritic substances, acting like clobuzarit and lobenzarit, (mechanism  
            different from anti-inflammatory type substances, e.g. -fenamates or  
            -profens)**

A.4.2.0  
Consult.  
INN April 1981      (USAN: antirheumatic substances, acting similarly to lobenzarit)

- (a) actarit (62), bindarit (64), clobuzarit (44), lobenzarit (46), romazarit (60)

**-arol (d) anticoagulants, dicoumarol derivatives**



USAN

I.2.1.0 (USAN: anticoagulants (dicoumarol type))

- (a) acenocoumarol (6), clocoumarol (31), coumetarol (13), dicoumarol (23), tiocloamarol (31), xylocoumarol (15).
- (b) cloridarol (29) (coron. vasodil.), fluindarol (16) (anticoag. of indonedione-type).
- (c) diarbarone (15), ethyl biscoumacetate (4), phenprocoumon (11), warfarin (23)

TRS 581

- arone** amiodarone (16) (anti-arrhythmic), benzarone (13), benzbromarone (13) (uricosuric), benziodarone (11), brinazarone (64) (calcium channel blocker), bucromarone (48) (anti-arrhythmic), diarbarone (15), etabenzarone (17), fantofarone (65) (calcium channel blocker), furidarone (19), inicarone (27), mecinarone (30), pyridarone (16), rilozarone (58).

**-arte antimalarial agents, artemisinin related compounds**

- (a) artemether (61), artemisinin (56), artesunate (61), arteflene (70)

**-ase enzymes**

- (a) alglucerase (68), bislisomase (65), bisrinuclase (65), brinase (22), cocarboxylase (1), dornase alfa (70), hyalosidase (50), hyaluronidase (1), kallidinogenase (22), ocrase (28), pegaspargase (64), penicillinase (10), promelase (47), rizolipase (22), serrapeptase (31), sfericase (40), streptodornase (6), streptokinase (6), tilactase (50), urokinase (48)
- (c) batroxobin (29), bromelains (18), chymopapain (26), chymotrypsin (10), defibrotide (44), orgotein (31), sutilains (18), ubidecarenone (48).

Classification of enzymes

I proteinase

I a) with -ase suffix:  
(INN)

	(origin)	(use, action)
brinase (22)	<u>Aspergillus oryzae</u>	fibrinolytic
kallidinogenase (22)	pancreas or urine of mammals	splitting kinin, kallidin from kininogen (vaso-dilator)

<u>ocrase</u> (28)	<u>Aspergillus ochraceus</u>	fibrinolytic (topically: cleaning wounds)
<u>pegaspargase</u> (64)		asparaginase
<u>promelase</u> (46)	<u>Aspergillus melleus</u>	proteinase (chronic bronchitis)
<u>serrapeptase</u> (31)	<u>Serratia sp. E15</u>	proteinase (chronic paranasal sinusitis etc.)
<u>sfericase</u> (40)	<u>Bacillus sphaericus</u>	proteinase (chronic paranasal sinusitis etc.)
<u>streptokinase</u> (6)	<u>Streptococcus haemolyticus</u>	changing plasminogen into plasmin (activator of fibrinolysis)
<u>urokinase</u> (16)	<u>human origin</u>	plasminogen activator
I (b) <u>without -ase suffix:</u>		
<u>batroxobin</u> (29)	the venom of the serpent <u>Bothropsatrox</u>	thrombin like enzyme
<u>bromelains</u> (18)	<u>Ananas comosus</u> Merr.	fibrin depolymerizing (anti-inflammatory)
<u>chymopapain</u> (26)	papaya latex	proteolytic (chemonucleosis)
<u>chymotrypsin</u> (10)	mammalian pancreas	proteolytic (anti-inflammatory, anti-oedema)
<u>defibrotide</u> (44)	mammalian pancreas	proteolytic (anti-inflammatory, anti-oedema)
<u>sutilains</u> (18)	<u>Bacillus subtilis</u>	proteolytic
<hr/>		
II	<u>lipase</u>	
<u>rizolipase</u> (22)	<u>Rhizopus arrhizus</u> var. Delemar	lipase
<hr/>		
III	<u>isomerase</u> (see also V)	
<u>orgotein</u> (31)	mammalian tissue (liver, red blood cell etc.)	superoxide dismutase activity (anti-inflammatory)
<hr/>		

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IV	<u>co-enzymes</u>		
	<u>cocarboxylase</u> (1)	chemically defined	co-enzyme in the metabolism of pyruvic acid
	ubidecarenone (48)	chemically defined	naturally occurring co-enzyme, a component in the electron transfer system in mitochondria (congestive heart failure)

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V	<u>-dismase</u> enzymes with superoxide dismutase activity (see also III)		
	(a) <u>ledismase</u> (70), <u>sudismase</u> (58)		

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VI	<u>-teplase</u> tissue-type-plasminogen activators		
	(a) <u>alteplase</u> (59), <u>anistreplase</u> (59), <u>duteplase</u> (62), <u>reteplase</u> (69), <u>silteplase</u> (65)		

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VII	<u>-uplase</u> urokinase-type-plasminogen activators:		
	(a) <u>nasaruplase</u> (68), <u>saruplase</u> (58)		

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VIII	<u>others</u>		
	<u>dornase alfa</u> (70)	human origin	treatment of cystic fibrosis
	<u>hyalosidase</u>		hyaluronoglucosaminidase (treatment of myocardial infarction)
	<u>hyaluronidase</u>	various origins	depolymerizing hyaluronic acid (cellular diffusion factor)
	<u>penicillinase</u> (10)	<u>Bacillus cereus</u>	inactivating penicillin
	<u>streptodornase</u> (6)	<u>Streptococcus haemolyticus</u>	hydrolysing desoxyribonucleoprotein
	<u>tilactase</u> (50)		$\beta$ -D-galactosidase

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BAN, USAN

**-ast (a) antiasthmatic, antiallergics, not acting primarily as antihistaminics**

K.O.O.O

(BAN: antiasthmatics, antiallergics when not acting primarily as antihistamines)  
(USAN: antiasthmatics or antiallergic substances not acting primarily as antihistamines)

- (a) andolast (67), asobamast (63), batebulast (66), binizolast (60), bunaprolast (60), dametralast (54), dazoquinast (54), doqualast (48), eclazolast (55), eflumast (61), enofelast (67), enoxamast (52), fenprinast (48), ibudilast (58), idenast (58), loxanast (46), mclquinast (62), oxalinast (49), pemirolast (61), picumast (47), pirodomast (64), quazolast (55), raxofelast (68), repirinast (55), revonast (51), suplatast tosilate (64), tazanolast (59), tetrazolast (67), tiacrilast (52), tibenelast (58), tioxamast (53), tiprinast (50), tranilast (46), zaprinast (46)

**-lukast leukotriene receptor antagonist**

- (a) ablukast (61), cinalukast (70), iralukast (70), pobilukast (70), pranlukast (67), ritolukast (64), sulukast (63), tomelukast (59), verlukast (65)

**-trodast thromboxane A<sub>2</sub> receptor antagonists, antiasthmatics**

- (a) imitrodast (70), seratrodast (70)  
(c) bufrolin (34), oxarbazole (38), pirolate (44)

Consult. INN  
April 1981

BAN, USAN

**-astine (a) antihistaminics (14th Report, 1967)**

C.2.0.0

(BAN: antihistamines, not otherwise classifiable)  
(USAN: antihistaminics (histamine-H<sub>1</sub> receptor antagonists))

- (a) acrivastine (51), azelastine (36), barmastine (59), bepiastine (19), cabastine (50), carebastine (52), clemastine (22), dorastine (23), ebastine (52), emedastine (59), epinastine (55), flezelastine (67), levocabastine (50), mizolastine (64), moxastine (15), noberastine (59), octastine (37), perastine (15), piclopastine (22), rocastine (57), setastine (39), talastine (18), temelastine (54), zepastine (26)  
(b) astemizole (45)  
(c) cloperastine (18) (antitussive), vinblastine (12) (vincaalkaloid)

**-azam see - azepam**

**-azenil benzodiazepine receptor antagonists/agonists (benzodiazepine derivatives)**

- (a) bretazenil (60), flumazenil (55), iomazenil <sup>123</sup>I (66), sarmazenil (59)  
(b) nabazenil (49)

- carnil      benzodiazepine receptor antagonists/agonists (carboline derivatives)  
    (a)      abecarnil (60), gedocarnil (61)
- quinil      benzodiazepine receptor partial agonists (quinoline derivatives)  
    (a)      terbequinil (63)

BAN, USAN

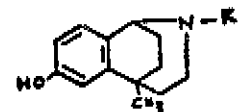
-azepam (a)      diazepam derivatives



- C.1.0.0      (USAN: tranquilizers (diazepam type))  
    (a)      bromazepam (22), camazepam (30), carburazepam (39), cinolazepam (46),  
            clonazepam (22), cyprazepam (16), delorazepam (40), diazepam (12),  
            doxefazepam (43), elfazepam (36), fletazepam (31), fludiazepam (36),  
            flunitrazepam (24), flurazepam (20), flutemazepam (58), flutoprazepam (45),  
            fosazepam (27), halazepam (29), iclazepam (37), lorazepam (23), lormetazepam  
            (38), meclonazepam (44), medazepam (20), menitrazepam (22), metaclazepam  
            (46), motrazepam (31), nimetazepam (26), nitrazepam (16), nordazepam (39),  
            nortetrazepam (20), oxazepam (13), pinazepam (32), pivoxazepam (34),  
            prazepam (14), proflazepam (31), quazepam (36), reclazepam (53), sulazepam  
            (14), temazepam (22), tetrazepam (17), tolufazepam (51), tuclazepam (40),  
            uldazepam (30).  
            not true benzodiazepines: bentazepam (33), clotiazepam (30), lopirazepam  
            (36), premazepam (45), ripazepam (33), zolazepam (28).  
  
            related: adinazolam (45), alprazolam (30), arfendazam (39), clazolam (29),  
            climazolam (51), clobazam (25), clobenzepam (25), cloxazolam (29), estazolam  
            (31), flutazolam (32), haloxazolam (38), ketazolam (26), lofendazam (36),  
            loprazolam (44), mexazolam (40), midazolam (40), nefopam (25), oxazolam  
            (25), razobazam (52), tofisopam (26), trepipam (38), triazolam (30),  
            triflubazam (28), trepipam (38), zapizolam (43), zomebazam (49)
- (c)      brotizolam (40), chlordiazepoxide (11), ciclotizolam (40), demoxepam (23),  
            dipotassium clorazepate (17), ethyl carfluzepate (43), ethyl dirazepate  
            (44), ethyl loflazepate (43), etizolam (40), potassium nitrazepate (17).
- TRS 581      not related: anti-anx.: fenobam (36), muscle relax.: xilobam (36)

USAN

-azocine      narcotic antagonists/agonists related to 6,7-benzomorphan  
            (INN Consultation 1973)



- A.4.1.0      (USAN: narcotic antagonists or agonists related to 6,7-benzomorphan)
- (a)      anazocine (30), bremazocine (43), butinazocine (53), carbazocine (16),  
            cogazocine (36), cyclazocine (14), eptazocine (45), gemazocine (29),  
            ibazocine (36), ketazocine (34), metazocine (9), moxazocine (38),  
            pentazocine (14), phenazocine (9), quadazocine (54), tonazocine (46),  
            volazocine (19).
- TRS 581      related compounds: dezocine (35)

-azolam      see -azepam

USAN



-azoline  
E.4.0.0.

**antihistaminics or local vasoconstrictors, antazoline derivatives**

(USAN: antihistaminics or local vasoconstrictors (antazoline group))

- (a) antazoline (1), cilutazoline (61), cirazoline (38), clonazoline (18), coumazoline (26), domazoline (30), fenoxazoline (12), indanazoline (42), metrafazoline (33), naphazoline (1), nemazoline (63), oxymetazoline (13), phenamazoline (6), prednazoline (22), tefazoline (24), tinazoline (39), tramazoline (15), xylometazoline (8).

- (b) cefazolin (25) (antibiotic)

TRS 581 (c) tetryzoline (6), metizoline (22).

-azone

see -butazone

USAN

-azosin  
H.3.0.0

**antihypertensive substances, prazosin derivatives**

(USAN: antihypertensive substances (prazosin type))

- (a) bunazosin (50), doxazosin (47), neldazosin (60), prazosin (22), quinazosin (17), terazosin (44), tiodazosin (41), trimazosin (31)

related: alfuzosin (49), tipentosin (55).

BAN, USAN

-bactam (a)

**$\beta$ -lactamase inhibitors**

- (a) brobactam (53), sulbactam (44), tazobactam (60)

- (c) clavulanic acid (44)

BAN, USAN

-bamate (d)  
C.1.0.0

**tranquillizers, propanediol and pentanediol derivatives**

(USAN: propanediol and pentanediol derivatives)

- (a) cyclarbamate (13), meprobamate (6), nisobamate (21), pentabamate (13), tybamate (14).

- (b) difebarbamate (16), febarbamate (12), lorbamate (24), phenprobamate (10).

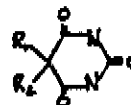
TRS 581 (c) mebutamate (12), metaglycodol (12), (not a carbamate)

BAN, USAN

barb (d)  
A.2.1.0

**hypnotics, barbituric acid derivatives**

(USAN: -barb; or -barb-: barbituric acid derivatives)  
(BAN: -barb, -barb-: for barbiturates)



- (a) allobarbital (1), amobarbital (1), aprobarbital (1), barbexalone (16), barbital (4), barbital sodium (4), benzobarbital (25), brallobarbital (41), carbubarb (14), cyclobarbital (1), difebarbamate (16), eterobarb (32), febarbamate (12), heptabarb (14), hexobarbital (1), methylphenobarbital (1), nealbarbital (11), pentobarbital (1), phenobarbital (4), phenobarbital sodium (4), probarbital sodium (1), proxibarbal (33), secbutabarbital (12), secobarbital (4), tetrabarbital (4), thialbarbital (4), thiotetrabarbital (4), vinbarbital (1).
- (c) butalbital (4), buthalital sodium (8), metharbital (1), methitural (6), methohexital (8), phetharbital (10), talbutal (17), thiopental sodium (4), vinylbital (12).
- prazitone (19) (barbituric acid derivative used as antidepressive)  
bucolome (17) (barbituric acid derivative used as anti-inflammatory uricosuric)

TRS 581

**-bandan**

**-bendazole**  
S.3.1.0

**anthelmintics, tiabendazole derivatives**



USAN

(USAN: anthelmintics (tiabendazole type))

- (a) albendazole (35), albendazole oxide (56), bisbendazole (29), cambendazole (24), ciclo bendazole (31), dribendazole (49), etibendazole (49), fenbendazole (29), flubendazole (34), lobendazole (28), luxabendazole (52), mebendazole (24), oxibendazole (30), parbendazole (19), subendazole (31), tiabendazole (13), triclabendazole (45).
- (b) bendazol (12) (vasodilator, also benzimidazole derivative)  
L.O.O.O: nocodazole (36), procodazole (36) (also benzimidazole derivative).
- (c) oxfendazole (35), tioxidazole (39)  
related: furodazole (37) (S.3.1.0)

TRS 581

**anabolic steroids**

BAN, USAN

**bol** (a)

(BAN: steroids, anabolic)  
(USAN: bol- or -bol- : anabolic steroids)

- (a) bolandiol (16), bolasterone (13), bolazine (21), boldenone (20), bolenol (19), bolmantalate (16), clostebol (22), enestebol (22), formebolone (31), furazabol (16), mebolazine (21), mesabolone (29), metribolone (17), mibolerone (27), norboletone (15), norclostebol (22), oxabolone cipionate (14), quinbolone (14), roxibolone (40), stenbolone (17), tibolone (22), trenbolone (24).
- (c) ethylestrenol (13), hydroxystenozole (10), metandienone (12), metenolone (12), oxandrolone (12), propetandrol (13), tiomesterone (14).

**-bradine**

**bradycardic agents**

- (a) cilobradine (63), zatebradine (62)

-brate see -fibrate

BAN



-buzone (a) anti-inflammatory analgesics, phenylbutazone derivatives

A.4.2.0

(a) feclobuzone (27), kebuzone (19), pipebuzone (25), suxibuzone (24), tribuzone (33).

-butazone

mofebutazone (15), oxyphenbutazone (8), phenylbutazone (1)

-azone

aminophenazone (13), bisfenazone (33), famprofazone (21), morazone (12), nifenazone (15), nimazone (20), niprofazone (29), phenazone (4), propyphenazone (1), sulfinyprazone (8).

-zone

clofezone (17), proxifezone (24)

related:

azapropazone (18), benhepazone (15), bumadizone (24), cinnopentazone (17), isamfazone (37), metamfazone (12), osmadizone (26), ruvazone (26).

(c) benzpiperylone (12), butopyrammonium iodide (8), dibupyrone (17), metamizole sodium (53), metazamide (16), metamizole sodium (53), piperylone (11)

TRS 581

-caine (a) local anaesthetics

BAN, USAN

D.1.0.0

(a) ambucaine (6), amoxecaine (1), aptocaine (21), artocaine (47) (previously cartocaine (27)), benzocaine (42), betoxycaïne (13), bucricaine (49), bumecaine (25), bupivacaine (17), butacaine (4), butanilcaine (16), chloroprocaine (6), cinchocaine (1), clibucaine (14), clodacaine (13), clormecaine (17), cyclomethycaine (6), dexivacaine (20), diamocaine (22), clucaine (29), etidocaine (29), fexicaine (25), fomocaine (18), hexylcaine (4), hydroxyprocaine (1), hydroxytetracaine (1), ketocaine (15), leucinocaine (17), lidocaine (1), lotucaine (27), mepivacaine (11), meprylcaine (4), myrtecaine (15), octacaine (14), oxetacaine (13), oxybuprocaine (8), parethoxycaine (1), paridocaine (8), phenacaine (4), pinolcaine (32), piperocaine (1), piridocaine (1), pramocaine (4), pribecaine (32), prilocaine (14), procaine (10), propanocaine (6), propipocaine (16), propoxycaine (4), proxymetacaine (6), pyrrocaine (13), quatacaine (18), quinisocaine (4), risocaine (26), rodocaine (27), ropivacaine (50), tetracaine (4), tolycaine (16), trapencaine (56), trimecaine (11), vadocaine (57)

(c) amolanone (6), benzyl alcohol (1), cryofluorane (6), diperedon (1), dyclonine (6), midamaline (6)

-cain-(a): Class I antiarrhythmics, procainamide and lidocaine derivatives

BAN

H.2.0.0

(BAN: antifibrillants with local anaesthetic activity)

- (a) acecainide (39), asocainol (47), barucaïnide (52), bucaïnide (35), carcaïnium chloride (36), carocainide (46), dridocainide (67), droxicainide (47), encainide (40), epicainide (40), erocainide (50), flecainide (37), guafecainol (38), indecainide (48) (originally ricainide (47)), itrocainide (54), ketocainol (32), lorcainide (38), modocainide (63), murocainide (46), nicainoprol (46), nofecainide (44), pilsicainide (62), pincaïnide (49), procainamide (1), quinacainol (50), recainam (54), solpecainol (55), stirocainide (47), suricainide (55), tocaïnide (36), transcainide (51), verocainine (42) - replaced by tiapamil in List 43), zocainone (41).

**calci**                      **Vitamin D analogues/derivatives**  
N.8.0.0.

- (a) alfacalcidol (40), clacifediol (26), calcipotriol (61), calcitriol (39), colecalfiferol (13), ergocalciferol (13), flocalcitol (69), secalfiferol (62), tacalcitol (65).
- (b) calcitonin (31) (polypeptide)

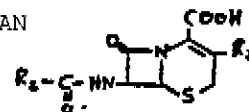
**-carbef**                      **antibiotics, carbacepham derivatives**

- (a) loracarbef (60)

**-carnil**                      **See -azenil**

**cef-**    (a)<sup>1</sup>    **antibiotics, cephalosporanic acid derivatives**  
S.6.1.0                      (USAN: cephalosporins)

BAN, USAN



- (a) cefacetrile (25), cefaclor (36), cefadroxil (33), cefalexin (18), cefaloglycin (16), cefalonium (16), cefaloram (16), cefaloridine (15), cefalotin (14), cefamandole (30), cefaparole (33), cefapirin (23), cefatrizine (34), cefazaflur (36), cefazedone (36), cefazolin (25), cefbuperazone (48), cefcanel (59), cefcapene (68), cefclidine (64), cefdaloxime (64), cefdinir (61), cefditoren (66), cefedrolor (53), cefempidone (58), cefepime (57), cefetamet (49), cefetecol (64), cefetrizole (44), cefivitril (52), cefixime (53), cefizopran (66), cefmenoxime (44), cefmepidium chloride (57), cefmetazole (39), cefminox (53), cefodizime (44), cefonicid (42), cefoperazone (42), ceforanide (39), cefotaxime (40), cefotetan (48), cefotiam (40), cefoxazole (34), cefoxitin (29), cefpimizole (50), cefpiramide (47), cefpirome (50), cefpodoxime (58), cefprozil (60), cefquinome (59), cefradine (26), cefrotil (34), cefroxadine (42), cefsulodin (38), cefsumide (38), ceftazidime (44), cefteram (55), ceftazole (34), ceftibuten (60), ceftiofur (53), ceftiolene (49), ceftioxide (43), ceftizoxime (42), ceftriaxone (44), cefuracetime (45), cefuroxime (34), cefuzonam (55).

TRS 581

<sup>1</sup>The sequence cefa- has to be avoided based on an understanding with the German firm Cefak because of their various long-established trade-marks beginning with Cefa-.

**-oxef**                      **antibiotics, oxacefalosporanic acid derivatives**

USAN

(USAN: antibiotic oxacefalosporanic acid derivatives)

- (a) flomoxef (55), latamoxef (46)

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**cell-ate cellulose ester derivatives**

- (a) cellaburate (23), cellacefate (18)

**-cellose cellulose ether derivatives**

- (a) -  
(c) carmellose (45), croscarmellose (48), (hyprolose deleted(56)), hypromellose (18), methylcellulose (4)

**cell- or various other cellulose derivatives**

- cel-  
(a) celucloral (40)  
(c) celiprolol (35)

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**-cic hepatoprotective substances with a carboxylic acid group**

J.1.2.0

- (a) limazocic (69), tidiacic (33), timonacic (33), (tiofacic (45) replaced by stepronin (46))  
(b) bisorcic (34) (psychostimulant)  
(c) stepronin (46)

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USAN

**-cidin naturally occurring antibiotics (undefined group) (14th Report, 1964)**

S.6.0.0.

- (USAN: natural antibiotics (undefined group))  
(a) candicidin (17), gramicidin (1), gramicidin S (26), methocidin (6)  
(b) guancidine (18) (hypotensive).

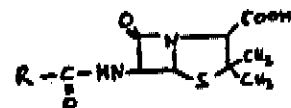
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BAN, USAN

**-cillin (a) antibiotics, 6-aminopenicillanic acid derivatives**

S.6.1.0

- (a) adicillin (14), almecillin (14), amantocillin (17), amoxicillin (27), ampicillin (13), apalcillin (39), aspoxicillin (50), azidocillin (19), azlocillin (36), bacampicillin (32), benethamine penicillin (1), benzathine benzylpenicillin (18), benzylpenicillin (53), carbenicillin (20), carfecillin (30), carindacillin (29), ciclacillin (22), clemizole penicillin (8), clometocillin (12), cloxacillin (13), dicloxacillin (16), epicillin (25), fenbenicillin (13), fibracillin (30), flucloxacillin (17), fomidacillin (55), furbucillin (31), fumoxicillin (47), fuzlocillin (47), hetacillin (16), isopropicillin (12), lenampicillin (50), levopropicillin (12), metampicillin (20), meticillin (12), mezlocillin (34), nafcillin (13), oxacillin (15), oxetacillin (33), penamecillin (16), pheneticillin (11), phenoxymethyl penicillin (6), phenyracillin (8), piperacillin (38), pirbenicillin (35), piridicillin (43), piroxicillin (49), pivampicillin (23), prazocillin (27), propicillin (13), quinacillin (14), rotamicillin (35), sarmoxicillin (41), sarpicillin (36), sulbenicillin (26), sultamicillin (48), suncillin (25), talampicillin (31), tameticillin (35), temocillin (46), ticarcillin (29), tifencillin (12), xantocillin (12).



- (c) penimepicycline (16), penimocycline (22) (both combinations of a "cillin" with a "cycline")

-cillide: libecillido (32)

-cillinam: bacmecillinam (38), mecillinam (32), pivmecillinam (32).

TRS 581

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-cysteine see -steine

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-citabine nucleoside antiviral or antineoplastic agents, cytarabine or azarabine derivatives

- (a) ancitabine (36), decitabine (61), encitabine (46), fiacitabine (59), flurocitabine (38), galocitabine (65), gemcitabine (62), ibacitabine (57), zalcitabine (66).
- (b) cytarabine (14)

---

-conazole(a) systemic antifungal agents, miconazole derivatives

BAN, USAN

S.4.0.0 (BAN: systemic antifungals of the miconazole group)  
(USAN: systemic antifungals (miconazole type))

- (a) aliconazole (43), alteconazole (53), azaconazole (45), becliconazole (65), brolaconazole (58), butoconazole (40), ciconazole (59), croconazole (55), (cyproconazole (ISO)), democonazole (42), (diniconazole (ISO  $C_{17}H_{17}Cl_2N_3O$ )), doconazole (37), econazole (27), eberconazole (64), enilconazole (44), (etaconazole (ISO)), fenticonazole (44), fluconazole (54), ((furconazole (ISO/TC 81 N 872  $C_{13}H_{14}Cl_2F_3N_3O_2$ ))), (hexaconazole (ISO  $C_{14}H_{17}Cl_2N_3O$ )), isoconazole (30), itraconazole (50), ketoconazole (43), lanoconazole (66), miconazole (22), neticonazole (63), omoconazole (45), orconazole (40), oxiconazole (42), (penconazole, (ISO)), parconazole (39), (propiconazole (ISO)), saperconazole (59), sertaconazole (56), sulconazole (38), (tebuconazole (ISO  $C_{14}H_{22}ClN_3O$ ))), terconazole (45) (originally triaconazole), tioconazole (40), (uniconazole (ISO  $C_{15}H_{19}ClN_3O$ ))), valconazole (40), zinoconazole (50), zoficonazole (43).

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cort (a) corticosteroids, except prednisolone derivatives

BAN, USAN

Q.3.0.0 (USAN: -cort-: cortisone derivatives)

- (a) amebucort (54), butixocort (63), cicortonide (28), corticotrophin (1), corticotrophin-zinc hydroxide (6), cortisone (1), cortisuzol (30), cortivazol (23), cortodoxone (15), deflazacort (39) (previously azacort (38)), desoxycortone (4), fluazacort (30), fludrocortisone (6), fludroxycortide (12), fluocortin (31), formocortol (18), hydrocortamate (6), hydrocortisone (1), locicortone (55), naflocort (50), nicocortonide (40), nivacortol (24), tixocortol (38)
- (b) prednisolone derivatives: clocortolone (16), difluocortolone (18), fluocortolone (15), halocortolone (31).
- (c) aldosterone (6), algestone (22), (also progest. when used as algestone acetophenide), medrysone (16).

TRS 581

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**-crinat**      **diuretics, etacrynic acid derivatives**

USAN

- N.1.2.2      (USAN: diuretics (ethacrynic acid derivatives))
- (a)      brocrinat (51), sulicrinat (52)
- (c)      etacrynic acid (14), furacrinic acid (29), indacrinone (51), tienilic acid (25)



USAN

**-crine (d)**      **acridine derivatives**

- (a)      amsacrine (44), botiacrine (32), dimetacrine (19), floxacrine (34), mepacrine (4), monometacrine (19), tacrine (8).
- (c)      acridorex (21), acriflavinium chloride (1), acrisorcin (13), aminoacridine (1), ethacridine (1), proflavine (1).

TRS 581

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USAN

**-cromil**      **antiallergics, cromoglicic acid derivatives**

- K.O.O.O      (USAN: antiallergics (cromoglicic acid type))
- (a)      ambicromil (48) (replacement of probicromil (46)), isocromil (39), minocromil (50), nedocromil (50), proxicromil (39), terbucromil (38), texacromil (58).
- (c)      cromitrile (46), cromoglicic acid (18).

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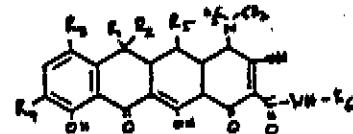
**-curium**      **see -ium**

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BAN, USAN

**-cycline (d)**      **antibiotics, tetracycline derivatives**

- S.6.3.0      (USAN: antibiotics (tetracycline derivatives))



- (a)      amicycline (14), apicycline (17), cetocycline (39), chlortetracycline (4), clomocycline (16), colimecycline (33), demeclocycline (25), demecycline (14), doxycycline (16), etamocycline (18), guamecycline (22), lymecycline (14), meclocycline (14), meglucycline (22), metacycline (12), minocycline (14), nitrocycline (14), oxytetracycline (1), pecocycline (15), penimepicycline (16), penimocycline (22), pipacycline (12), rolitetracycline (11), sancycline (15), tetracycline (4).

related: carubicin (40), daunorubicin (20), detorubicin (41), doxorubicin(25), zorubicin (39).

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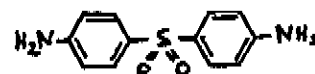
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**-dan**                    **cardiac stimulants, pimobendan derivatives**  
H.1.0.0  
    (a)                 adibendan (57), bemorodan (61), imazodan (55), indolidan (57), levosimendan (68), meribendan (62), pimobendan (46), prinoxodan (64), simendan (66).  
    (b)                 nitrodan (15), tyromedan (15)

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USAN

**-dapsone**                **antimycobacterials, diaminodiphenylsulfone derivatives (14th Report, 1964)**  
S.5.2.0  
                          (USAN: antimycobacterial diaminodiphenylsulfone derivatives)  
    (a)                 acedapsone (22), amidapsone (28), dapsone (23).




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**-dermin**                **see -ermin**

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USAN

**-dil**                     **vasodilators (18th Report, 1968)**  
F.2.0.0.  
F.2.1./2.0  
F.2.0.0(a)               (USAN: -dil; dil-; or -dil-: vasodilators (undefined group))  
                          belfosdil (61), benfurodil hemisuccinate (16), biclodil (52), buflomedil (33), burodiline (26), carprazidil (45), cetiedil (27), cinepaxadil (50), fenoxedil (27), fosatidil (64), fostedil (51), fronepidil (59), ifenprodil (27), manozodil (47), mefenidil (48), minoxidil (25), naftopidil (52), nesapidil (52), perfomedil (60), pinacidil (46), piribedil (23), pitenodil (37), podilfen (22), stevaladil (34), suloctidil (30), tipropidil (44), urapidil (27), viquidil (25).  
    (c)                 dilmefone (33)  
F.2.1.0  
                          coronary vasodilators: bepridil (30), bumepidil (44), ecipramidil (40), fendiline (24), fenetradil (30), floredil (28), hexadiline (13), mepramidil (27), metrifudil (23), nicorandil (44), pirozadil (33), pretiadil (27), razinodil (38), terodiline (16), tixadil (18), trapidil (29).  
    (c)                 dilazep (22), diltiazem (30)  
**-dilol**                 carvedilol (50), dioxadilol (53), dramedilol (57), flavodilol (48), mindodilol (52), nipradilol (50) (previously nipradolol), parodilol (57), prizidilol (44), tribendilol (54).  
    (b)                 diloxanide (8) (amebicide), methdilazine (10) (antihistaminic), phenobutiodil (6) (contrast medium), prodilidine (12) (analgesic).  
**-pendyl:**               cloxypendyl (15), isothipendyl (6), oxypendyl (13), prothipendyl (6)  
**-dyl**                   bisacodyl (13) (lax.), bunamiodyl (10), iofendylate (12), trihexiphenidyl (1) (antiparksonian).

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- BAN, USAN
- dipine (a) calcium channel blockers, nifedipine derivatives**
- F.2.1.0 (BAN: calcium ion channel antagonists)  
(USAN: phenylpyridine vasodilators (undefined group))
- (a) amlodipine (53), aranidipine (69), azelnidipine (69), barnidipine (64), benidipine (58), cilnidipine (66), cronidipine (61), darodipine (51) (replaces dazodipine (49)), efonidipine (66), elgodipine (61), felodipine (44), flordipine (48), furnidipine (67), iganidipine (70), isradipine (55), lacidipine (57), lcmildipine (69), lercanidipine (69) (previously masnidipine), levniguldipine (67), manidipine (59), mesudipine (40), nicardipine (42), nifedipine (27), niludipine (38), nilvadipine (52), nimodipine (40), nisoldipine (42), nitrendipine (42), olradipine (69), oxodipine (52), palonidipine (64), pranidipine (66), rioldipine (51), sagandipine (64), sornidipine (58), teludipine (64) (previously taludipine (61)).
- (b) budipine (36) (central stimulant, antidepressant and antiparkinsonian), prodipine (29) (central stimulant antiparkinsonian)
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**-dismase enzymes with superoxide dismutase activity, see -ase item V**

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**-dopa dopamine receptor agonists, dopamine derivatives, used as anti-parkinsonism/prolactin inhibitors**

E.2.0.0

- (a) carbidopa (37), ciladopa (52), droxidopa (57), fluorodopa (<sup>18</sup>F) (64), levodopa (21)
- (b) methyl dopa (12) (alpha-2 adrenoreceptor agonist, cardiogenic)

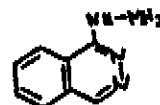
**-opamine dopaminergic agents dopamine derivatives used as cardiac stimulant/antihypertensives/diuretics**

- (a) butopamine (43), cliropamine (59), denopamine (50), dopamine (18), ibopamine (43), octopamine (32), oxidopamine (37) (glaucoma), ractopamine (54) (1 of 4 isomers of butopamine)
- (b) tiopropamine (36) (gastric and duodenal ulcers), tolpropamine (13) (antihistaminic)
- (c) dobutamine (29), docarpamine (59), dopexamine (50)
- 

**-dralazine antihypertensives, hydrazinephthalazine derivatives**

H.3.0.0

(USAN: antihypertensives (hydrazine-phthalazines))



USAN

- (a) budralazine (33), cadralazine (41), dihydralazine (4), endralazine (39), hydralazine (1), mopidralazine (52), oxdralazine (38), picodralazine (18), pildralazine (48), todralazine (26).
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**-drine**                    **sympathomimetics (16th Report, 1966)**  
E.4.0.0

- E    (a)    alifedrine (49), butidrine (16), cafedrine (14), cinnamedrine (19),  
         corbadrine (1), dioxethedrine (6), dioxifedrine (41), etafedrine (14),  
         methoxyphedrine (6), midodrine (27), norbudrine (17), oxyfedrine (16),  
         pholedrine (1), pseudoephedrine (11), racephedrine (66), ritodrine (22),  
         theophylline  
  
         ephedrine(14), tinofedrine (32), trecadrine (53).  
  
         not phenethylamine derivatives: levopropylhexedrine (37), octodrine (19),  
         propylhexedrine (6).
- (b)    bufenadrine (13) (antiemetic) related chemically, chlormerodrin (4)  
              (diuretic), chlormerodrin (197 Hg) (24), orphenadrine (8) (spasmolytic)  
              dieldrin (10) (insecticide)

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**-frine**                    **sympathomimetic, phenethyl derivatives**

- (a)    amidefrine mesilate (15), berefrine (68), ciclafrine (33), dimetofrine (27),  
         dipivefrine (39), epinephrine (16), etilefrine (18), etilefrine pivalate  
         (50), gepefrine (38), norepinephrine (45), norfenefrine (16), oxilofrine  
         (62), phenylephrine (1), pivenfrine (42), racepinefrine (41).

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**-dronic acid** calcium metabolism regulator, pharmaceutical aid  
N.8.0.0  
U.4.0.0

- (a)    alendronic acid (61), butedronic acid (59), clodronic acid (37), etidronic  
         acid (22), incadronic acid (70), medronic acid (39), meridronic acid (61),  
         oxidronic acid (42), pamidronic acid (59), piridronic acid (58), risedronic  
         acid (62), tiludronic acid (60)

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**-ectin**                    **antiparasitics, ivermectin derivatives**  
S.3.0.0

- (a)    abamectin (53), doramectin (63), ivermectin (44), moxidectin (61),  
         nemadectin (60)

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**-entan**                    **endothelin receptor antagonists**

- (a)    bosentan (70)

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**erg**                        **ergot alkaloid derivatives**

USAN

F.4.0.0                    (USAN: -erg-: ergot alkaloid derivatives)  
C.7.0.0

- (a)    acetergamine (18), amesergide (67), brazergoline (37), bromerguride (51),  
         cabergoline(54), cianergoline (47), delergotrile (42), dihydroergotamine  
         (16), disulergine (45), dosergoside (54), ergometrine (4), ergotamine (4),  
         etisulergine (47), lergotrile (32), lysergide (8), mergocriptine (54),

mesulergine (47), metergoline (18), metergotamine (29), methylergometrine (1), methysergide (11), nicergoline (26), pergolide (41) propisergide (35), proterguride (50), romergoline (66), sergolexole (60), terguride (50), tiomergine (42), voxergolide (61).

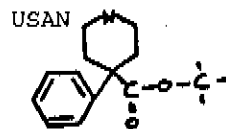
(b) ergocalciferol (13).

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**-eridine** analgesics, pethidine derivatives (14th Report, 1964)

A.4.1.0

(USAN: analgesics (meperidine group))



- (a) anileridine (5), carperidine (11), etoxeridine (6), morpheridine (6), oxpheneridine (5), phenoridine (5), phenoperidine (11), properidine (5), sameridine (68), trimeperidine (6).
- (b) diavoridine (18) (cocciostat.), eseridine (53), nexeridine (34) (somewhat related).
- (c) benzethidine (9), butoxylate (14), diphenoxylate (10), fetoxilate (21), furethidine (9), hydroxypethidine (5), pethidine (4), piminodine (9).

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**-ermin** growth factors

**-dermin** epidermal growth factors

- (a) muradermin (63)

**-fermin** fibrinoblast growth factors

- (a) ersefermin (66)

**-nermin** tumour necrosis factor

- (a) sonermin (68)

**-sermin** insulin-like growth factors

- (a) mecasermin (66)

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BAN, USAN

**estr (a)** estrogens

Q.2.1.0

(USAN: estr-; or -estr-: estrogens)

- (a) almestrol (24), benestrol (1), broparestrol (8), cloxestradiol (12), dienestrol (1), diethylstilbestrol (4), epiestriol (12), epimestrol (22), (eptamestrol/etamestrol (49) deleted), estradiol (4), estradiol benzoate (4), estradiol undecylate (16), estradiol valerate (35), estramustine (24), estrapronicate (34), estrazinol (16), ostriol succinate (14), estrofurate (25), estrone (4), ethinylestradiol (1), fenestrol (18), fosfestrol (15), furostilbestrol (1), hexestrol (1), mestranol (12), methallenestrol (6), methestrol (1), moxestrol (24), nilestriol (32), orestrate (17), polyestradiol phosphate (36), promestriene (31), quinestradol (15), quinestrol (14).



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**-fenin** **diagnostic aids; (phenylcarbamoyl)methyl iminodiacetic acid derivatives** USAN

(a) arclofenin (52), butilfenin (41), disofenin (43), etifenin (43), lidofenin (39), mebprofenin (47)

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**-fentanil** **narcotic analgesics, fentanil derivatives**

A.4.1.0  
(a) alfentanil (43), brifentanil (62), carfentanil (39), fentanyl (14), lofentanil (43), mirfentanil (64), ocfentanil (61), remifentanil (67), sufentanil (36), trefentanil (67).

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**-fibrate** (a) **clofibrate derivatives** BAN, USAN

H.4.0.0 (USAN: clofibrate type compounds)

(a) bezafibrate (35), biclofibrate (28), binifibrate (44), ciprofibrate (36), clinofibrate (39), dulofibrate (43), etofibrate (31), fenirofibrate (49), fenofibrate (35), lifibrate (30), nicofibrate (31), picafibrate (35), ponfibrate (37), ronifibrate (55), salafibrate (41), serfibrate (34), simfibrate (22), sitofibrate (32), tiafibrate (33), timofibrate (40), tocofibrate (33), urefibrate (37), xantifibrate (31).

clofibric acid (20), clofibrate (13), aluminium clofibrate (31), calcium clofibrate (34), cinnarizine clofibrate (38), etofylline clofibrate (38), magnesium clofibrate (31).

clofibrade (28), plaefibrade (39).

related: beclobrate (35), eniclobrate (39), gemfibrozil (34), halofenate (20), lifibrol (62), metibrade (53), terbufibrol (35), tibric acid (33), (fibrafylline (43) deleted).

(b) bromebric acid (25) (prophylaxis of migraine), fibracillin (30) (antibiotic)

(c) nafenopin (24), treloxinate (25)

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**-flurane** **general inhalation anaesthetics, halogenated alkane derivatives**

A.1.1.0  
(a) aliflurane (36), cryoflurane (6), desflurane (62), enflurane (25), isoflurane (28), methoxyflurane (11), norflurane (20), roflurane (12), sevoflurane (25), teflurane (12).

(c) halothane (6)

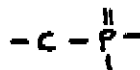
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-formin (d) antihyperglycaemics, phenformin derivatives BAN, USAN  
M.S.O.O (USAN: hypoglycemics (phenformin type))  
$$\text{HN}=\underset{\text{NH}_2}{\text{C}}-\text{NH}-$$
  
(a) benfosformin (29), buformin (17), etoformin (34), metformin (21), phenformin (10), tiformin (22).

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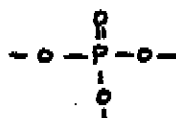
-fos insecticides, anthelmintics, pesticides etc., phosphorous derivatives  
(-vos)  
S.3.1.01. organophosphorous derivatives:  
Y.O.O.O vet. insecticides



- (a) quintiofos (25)  
(b) toldimfos (23) (vet. phosphorous source);  
(c) vet. insecticides and anthelmintics:  
crufomate (16), metrifonate (16).  
anthelmintic: butonate (30)

2. phosphates:

(a) vet. insecticides:



clofeninfos (23)

vet. anthelmintics:

bromofenofos (43), dichlorvos (28), naftalofos (16)

anthelmintics:

vincofos (28)

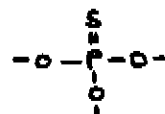
(b) triclofos (13) (hypnotic, sedative).

(c) vet. anthelmintics:

fospirate (21), haloxon (16), uredofos (37)

3. phosphorothioates:

vet. insecticides:

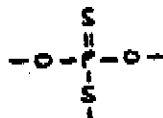


(a) bromofos (25), coumafos (16), fenclofos (23), temefos (31)

(c) dimpylate (16), phoxim (20) (vet. insecticide and anthelmintic), pyrimitate (16).

4. phosphorodithioates:

(a) benoxafos (22) (vet. pesticide)



(c) carbofention (23) (vet. insecticide), dioxation (16) (vet. insecticide), (malathion (46) (deleted!)).

5. phosphoramidates:  
anthelmintic:

incarbofos (44)

**-fos-** or  
**fos-** various pharmacological categories belonging to **-fos** (other than those above):

**-fos-**  
alafosfalin (41), amifostine (44), belfosdil (61), benfosformin (29), butafosfan (38), cifostodine (50), creatinolfosfate (20), ferpifosate sodium (69), fosopamine (69), monophosphothiamine (8), sodium picofosfate (37), technetium (<sup>99m</sup>Tc) furifosmin (70).

**-fosamide** alkylating agents of the cyclophosphamide group  
cyclophosphamide (10), defosfamide (12), ifosfamide (23), perfosfamide (66), sufosfamide (36), trofosfamide (23).

**-fosin** cytostatic: edelfosine (59), ilmofosine (56).

**fos-**  
fosarilate (53), fosazepam (27), foscarnet sodium (42), foscolic acid (12), fosenazide (46), fosfestrol (15), fosfocreatinine (50), fosfomycin (25), fosfonet sodium (35), fosfosal (37), fosmidomycin (46), fospirate (21), fostedil (51).

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**-frine** see **-drine**

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**-fungin** antifungal antibiotics (18th Report, 1968)

USAN

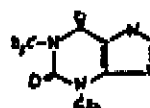
S.6.0.0 (USAN: antifungal antibiotics (undefined group))

S.4.3.0(a) cilofungin (60), fusafungine (15), kalafungin (20), nifungin (24), oxifungin(40), sinefungin (39), triafungin (40)

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**-fylline** N-methylated xanthine derivatives



USAN

B.1.0.0

- (a) acefylline clofibrol (44), acefylline piperazine (14), albifylline (66), aminophylline (4), bamifylline (15), denbufylline (55), dimabefylline (19), diniprofylline (18), diprophylline (1), doxofylline (47), enprofylline (44), etamiphylline (6), etofylline (14), etofylline clofibrate (38), fibrafylline (43) (deleted), flufylline (48), fluprofylline (50), furafylline (48), guaifylline (16), isbufylline (62), laprafylline (60), lomifylline (37), mercurophylline (1), metescufylline (15), mexafylline (48), nestifylline (64), pentifylline (29), pentoxifylline (29), perbufylline (58), pimefylline (21), propentofylline (46), proxiphylline (10), pyridofylline (14), spirofylline (58), tazifylline (52), theophylline ephedrine (14), torbafylline (56), triclofylline (19), verofylline (43), visnafylline (24), choline theophyllinate (8), fenetylline (16).

- (c) cafedrine (14), dimenhydrinate (1), dimethazan (8), meralluride (1), mrcumatinil sodium (4), piprinhydrinate (8), promethazine teoclate (10), protheobromine (14), theodrenaline (14), xantifibrate (31), xantinol nicotinate (16)

radicals and groups: Leprosilate (29)

TRS 581

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**gab**                    **gabamimetic agents**

E.0.0.0

- (a)            fengabine (53), gabapentin (46), gaboxadol (48) (used as analgesic),  
pivagabine (66), progabide (43) (used as antiepileptic), tiagabine (63),  
tolgabide (53), vigabatrin (52) (anticonvulsants)
- (b)            gabexato (35) (proteolytic)

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**gado-**                    **diagnostic agents, gadolinium derivatives**

U.1.0.0

- (a)            gadobenic acid (64), gadobutrol (66), gadodiamide (63), gadopenamide (60),  
gadopentetic acid (50), gadoteric acid (59)

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**gest (a)**                **steroids, progestogens**

BAN, USAN

Q.2.2.0                (USAN: -gest-: progestins)

- (a)            algestone (22), altrenogest (46), anagestone (16), cingestol (20),  
clogestone (21), clomegestone (20), demegestone (24), desogestrel (38),  
dexnorgestrel (30), dienogest (49), dydrogesterone (12), etonogestrel (65),  
flugestone (16), gestacione (23), gestadienol (22), gestodene (37),  
gestonorone caproate (16), gestrinone (39), haloprogestone (11),  
hydroxyprogesterone (8), levonorgestrel (30) (previously dexnorgestrel),  
medrogestone (15), medroxyprogesterone (10), medoxyprogesterone (10), medrogestone  
(15), megestrol (13), melengestrol (13), metogest (33), norgesterone (14),  
norgestimate (35), norgestomet (32), norgestrel (17), norgestrienone (18),  
oxogestone (19), pentagestrone (14), progesterone (4), proligestone (28),  
promegestone (38), quingestanol (15), quingestrone (13), tigestol (20),  
tremgestone (22), trimegestone (66).
- (b)            algestone (22) (glucorticoid)
- (c)            allylestrenol (10), chlormadinone (12), cismadinone (12), delmadinone (23),  
dimethisterone (8), ethisterone (4), ethynerone (17), etynodiol (13),  
hydromadinone (12), lynestrenol (13), metynodiol (27), norethisterone (6),  
noretynodrel (13), norvinisterone (10).
- clometerone (15) (antiestrogen), dimepregnen (24) (antiestrogen)

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**-giline**                **MAO-inhibitors type B**

C.3.1.0

- (a)            clorgiline (23), mofegiline (69), pargiline (13), rasagiline (70),  
selegiline (39)

**-gillin**                antibiotics produced by *Aspergillus* strains (16th Report, 1966)

S.6.0.0

- (a)            fumagillin (1), mitogillin (17)
- (c)            mitosper (24), nifungin (24)
-

BAN, USAN

**gli (a) antihyperglycaemics, sulfonamide derivatives**

(previously  
gly-)  
M.5.2./3.0

(USAN: gli-: oral hypoglycemics (glipizide type))

- (a) gliamilide (33), glibenclamide (18), glibornuride (22), glibutimine (31), glicaramide (28), glicetanile (37), gliclazide (25), (deleted: glidanile (23)), glicondamide (44), glidazamide (24), gliflumide (33), glimepiride (53), glipalamide (62), (glipentide (27) replaced by glisentide (58)), glipizide (27), gliquidone (28), glisamuride (45), glisentide (58) (previously glipentide), glisindamide (43), glisolamide (43), glisoxepide (24), glybutiazol (8), glybuzole (15), glyclopipramide (17), glycyclamide (12), glyhexamide (15), glymidine sodium (15), glyoctamide (14), glyparamide (USAN only), glypinamide (13), glyprothiazol (8), glysobuzole (12).
- (b) glycerol (4), glycobiarsol (1), glycopyrronium bromide (12).
- (c) 1. acetohexamide (12), butadiazamide (10), chlorpropamide (8), heptolamide (12), metahexamide (10), thiohexamide (12), tolazamide (12), tolbutamide (6), tolpentamide (12), tolpyramide (13).
2. other than sulfonamide derivatives: camiglibose (67), ciglitazone (50), darglitazone (69), deriglidole (66), emiglitate (55), englitazone (64), isaglidole (61), linoglitide (48), meglitinide (34), midaglizole (57), miglitol (55), naglivan (65), pioglitazone (60), pirogliptide (40), irogliptide (40), pioglitazone (60), pirogliptide (40), repaglinide (65), tibeglisene (64), troglitazone (68), voglibose (65).
3. peptide: seglitide (57)

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**-golide dopamine receptor agonists, ergoline derivatives**

- (a) naxagolide (60), pergolide (41), quinagolide (62), voxergolide (61)

**-grastim See -mostim**

USAN

**-grel-  
-grel platelet aggregation inhibitors**

I.2.1.0

(USAN: platelet antiaggragate (undefined group))

- (a) anagrelide (42), canonagrel (61), clopidogrel (57), dazmegrel (51), furegrelate (53), isbogrel (59), itazigrel (56), midazogrel (53), nafagrel (64), nicogrelate (48), oxagrelate (47), ozagrel (55), pamicogrel (70), pirmagrel (53), ridogrel (59), rolafagrel (65), sarpogrelate (63), satigrel (67), sunagrel (52), trifenagrel (53)


USAN

**guan-**                    **antihypertensives, guanidine derivatives**  
H.3.0.0                    (USAN: anti-hypertensive substances (guanidine type))

(a)                    guanabenz (26), guanaciline (16), guanadrel (20), guanazodine (27) guancidine (18), guanclofine (36), guanethidine (11), guanfacine (35), guanisoquine (15), guanoclor (15), guanoctine (16), guanoxan (15), guanoxabenz (31), guanoxyfen (16), guabenxan (32)

(c)                    guabenxan (32)

**-ibine**                    **see -ribine**

**-icam**                    **anti-inflammatory, isoxicam derivatives**                                        USAN  
A.4.2.0                    (USAN: anti-inflammatory agents (isoxicam group))

(a)                    ampiroxicam (56), droxicam (52), enolicam (45), isoxicam (30), lornoxicam (59), meloxicam (52), piroxicam (32), sudoxicam (27), tenoxicam (44), tesicam (25)

**-ifene**                    **antiestrogens, clomifene and tamoxifen derivatives**                    USAN  
(O.2.1.0  
L.6.0.0) (a)                    clomifene (12), droloxifene (53), enclomifene (33), idoxifene (68), nitromifene (33), ormeloxifene (69), panomifene (58), raloxifene (54), tamoxifen (28), toremifene (53), trioxifene (41), zindoxifene (54), zuclofifene (33), clomifenoxide (54)

(b)                    dextropropoxyphene (7), levopropoxyphene (7), suloxifen (30) (bronchodilator)

**-igetide**                    **see -tide**

**-ilide**                    **class III antiarrhythmics, sematilide derivatives**  
H.2.0.0                    (a)                    ambasilide (59), ibutilide (63), ipazilide (62), risotilide (62), sematilide (58)

(b)                    bromacrylide (13), ftaxilide (32), gliamilide (33)

**imex(d)**                    **immunostimulants**  
S.7.0.0                    (a)                    azimexon (40), forfenimex (55), imexon (37), roquinimex (53), ubenimex (56)

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**-imod**                    **immunomodulators, both stimulant/suppressive and stimulant**  
S.7.0.0  
(a)                    imiquimod (66), ivarimod (60), pidotimod (63), prezatimode copper acetate  
(67), tiprotimod (57).

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**-imus**                    **immunosuppressants (other than antineoplastics)**  
(a)                    gusperimus (68), laflunimus (70), napirimus (60), sirolimus (69), tacrolimus  
(66)

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**-ine (d)**                **alkaloids and organic bases**  
TRS 581 (a)            1120 (24.04%) INNs ending in -ine in Lists 1-48 p.INN

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**io- (a)**                **iodine-containing contrast media**  
U.1.1.0  
(a)                    iobenguane (131 I) (57), iobenzamic acid (14), iobitridol (68), iocarmic  
acid (22), iocetamic acid (18), iodamide (15), iodecimol (51) (replaces  
iodecol (48)), iodetryl (1), iodixanol (53), iodocetylic acid (123  
I) (47), iodophthalein sodiumxamic acid (26), iofendylate (12), ioglicic acid  
(33), ioglucol (41), ioglucomide (41), ioglunide (40), ioglycamic acid (15),  
iohexol (43), iolidonic acid (26), iolixanic acid (26), iopodate sodium  
(11), ioprocecemic acid (39), meglamic acid (26), iomeprol (54), iomorinic acid  
(37), iopamidol (40), iopanoic acid (1), iopentol (52), iophenoic acid (4),  
iopodate sodium (11), ioprocecemic acid (39), iopromide (44), iopronic acid  
(28), iopydol (14), iopydone (14), iosarcol (54), iosefamic acid (14),  
ioseric acid (33), iosimide (50), iosulamide (39), iosumetic acid (33),  
iotalamic acid (13), iotasul (43), iotetric acid (37), iotranic acid (28),  
iotriside (60), iotrizoic acid (22), iotrolan (51) (replaces iotrol (47)),  
iotroxic acid (32), ioxabrolic acid (53), ioxaglic acid (37), ioxilan (59),  
ioxitalamic acid (22), ioxotrizoic acid (33), iozomic acid (24).

(b)                    iodocholesterol (131I) (39), iodothiouracil (1), iofetamine (123I) (51),  
iomazenil (123I) (66), iometin (125I) (24), iometin (131I) (24), sodium  
iodohippurate (131I) (24), sodium iotalamate (125I) (24), sodium iotalamate  
(131I) (24).

(c)                    adipiodone (4), bunamiodyl (10), dimethiodal sodium (1), diiodone (1), ethyl  
cartrizoate (12), methiodal sodium (1), metrizamide (26), pheniodol sodium  
(1), phenobutiodil (6), propyl docetrizoate (10), propyl iodone (1), sodium  
acettrizoate (4), sodium amidotrizoate (4), sodium diprotrizoate (6), sodium  
metrizoate (13), sodium tyropanoate (12).

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**iod-**                    **iodine-containing compounds other than contrast media**  
**-io-**

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**-irudin**            **hirudin derivatives**  
I.2.1.0  
                  desirudin (70)

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**-isomide**           **antiarrhythmics, disopyramide derivatives**  
(a)            actisomide (60), bidisomide (63), pentisomide (59)  
(c)            disopyramide (12)

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**-ium (a)**           **quarternary ammonium compounds**  
(USAN: -ium or onium)

BAN, USAN

**-curium (d)**       **curare-like substances**

USAN

E.3.0.0            (USAN: neuromuscular blocking agents; quaternary ammonium derivatives)

- (a)            -curium:  
                  atracurium besilate (42), doxacurium chloride (58), mivacurium chloride (58), truxicurium iodide (22), truxipicurium iodide (22).
- (a)            -curonium:  
                  alcuronium chloride (17), candocuronium iodide (70), dacuronium bromide (21), pancuronium bromide (19), pipecuronium bromide (41), stercuronium iodide (21), vecuronium bromide (46)
- (c)            decamethonium bromide (1), dimethyltubocurarinium chloride (1), gallamine triethiodide (1), hexafluronium bromide (12), laudexium metilsulfate (4), oxydipentonium chloride (1), piprocurarium iodide (11), suxamethonium chloride (1), suxethonium chloride (1), tubocurarine chloride (1)
- hexcarbacholine bromide (10), mebezonium iodide (16), prodeconium bromide (6).

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**-ium**

- (a)            acriflavinium chloride (1), amantanium bormide (39), amezinium metilsulfate (36), amprolim(16), azaspiriumchloride(25), benzododecinium chloride (1), benzpyrinium bromide (1), beperidium iodide (57), bephenium hydroxynaphthoate (11), bidimazium iodide (27), bretylium tosilate (10), butropium bromide (30), carcainium chloride(36), cetylpyridinium chloride (1), chlorphenoctium amsonate (8), ciclotropium bromide(50), cimetropium bromide (51), clidinium bromide (6), clofilium phosphate (42), datelliptium chloride (57), demccarium bromide (10), dequalinium chloride (8), detajnim bitartrate (34), dicolinium iodide (25), dimethyltubocurarinium chloride (1), dimetipirium bromide (37), ditercalinium chloride (49), dofamium chloride (21), droclidinium bromide (33), elliptinium acetate (43), emilium tosilate (37), etipirium iodide (22), fazadinium bromide (32), feniodium chloride (23), fempiverinium bromide (26), flutropium bromide (50), furazolium chloride (15), halopenium chloride (10), hedaquinium chloride (8), hexocyclium metilsulfate (6), homidium bromide (36), ipratropium bromide (28), isometamidium chloride (18), lapirium chloride (27), laudexium metilsulfate (4), laurcetium bromide (70), laurolinium acetate (12), mequitazium iodide (60), methanthelinium bromide (1), methylbenactyziium bromide (34), methylrosanilinium chloride (1), methylthioninium chloride (1), metocinium iodide (26), miripirium chloride (63), nolinium bromide (37), oxapium iodide (26), oxapropanium iodide (1), oxitropium bromide (36), pentacynium chloride (6), pentapiperium

metilsulfate (26), phenactropinium chloride (8), pinaverium bromide (32), pirocurarium iodide (11), pirdonium bromide (28), prajmalium bitartrate (23), pranolium chloride (32), pretamazium iodide (29), prifinium bromide (20), prospidium chloride (22), pyritidium bromide (16), pyrvinium chloride (6), quinuclium bromide (40), rimazolium metilsulfate (26), sintropium bromide (47), stilbazium iodide (12), thenium closilate (12), thiazinamium metilsulfate (37), timazolium metilsulfate (26), timepidium bromide (29), tipetropium bromide (42), tiquizium bromide (47), toliodium chloride (36), trantelinium bromide (24), trazium esilate (54), trepirium iodide (25), trethinium tosilate (14), trimethidinium methosulfate (8), trospium chloride (25), troxypyrrolium tosilate (13), truxicurium iodide (22), truxipicurium iodide (22), xenytropium bromide (15).

-onium:

acetonium napadisilate (43), alcuronium chloride (17), ambenonium chloride (6), azamethonium bromide (1), benzalkonium chloride (1), benzethonium chloride (1), benzilonium bromide (13), benzopyrroonium bromide (12), benzoxonium chloride (36), bevonium metilsulfate (19), bibenzonium bromide (12), butopyrroonium iodide (8), carpronium chloride (23), cetalkonium chloride (15), cethexonium chloride (36), cetrimonium bromide (1), ciclonium bromide (19), cyclopyrroonium bromide (12), dacuronium bromide (21), decamethonium bromide (1), deditonium bromide (15), denatonium benzoate (15), dimecolonium iodide (14), diponium bromide (15), disiquonium chloride (55), dodeclonium bromide (16), dotefonium bromide (24), edrophonium chloride (4), emepronium bromide (18), fenclexonium metilsulfate (20), fentonium bromide (29), fludazonium chloride (33), fubrogonium iodide (18), furtrethonium iodide (1), glycopyrroonium bromide (12), heteronium bromide (14), hexafluronium bromide (12), hexamethonium bromide (1), hexopyrroonium bromide (13), lauralkonium chloride (6), mebezonium iodide (16), mecetronium etilsulfate (51), metalkonium chloride (60), methylbenzethonium chloride (1), miristalkonium chloride (41), octafonium chloride (16), otilonium bromide (38), oxitefonium bromide (18), oxydipentonium chloride (1), oxyphenonium bromide (1), oxypyrronium bromide (13), pancuronium bromide (19), penoctionium bromide (19), pentamethonium bromide (1), pentolonium tartrate (4), pirdonium bromide (28), pirralkonium bromide (19), polidronium chloride (67), polixetonium chloride (70), prodeconium bromide (6), prolonium iodide (14), quindonium bromide (14), ritropirronium bromide (33), rocuronium bromide (66), roxolonium metisulfate (33), sepazonium chloride (34), stercuronium iodide (21), stilonium iodide (32), sultroponium (18), suxamethonium chloride (1), suxethonium chloride (1), tetradonium bromide (18), tetrylammonium bromide (1), tiametonium iodide (15), tibezoneium iodide (32), tiemonium iodide (13), tiodonium chloride (36), toloconium metilsulfate (17), tolonium chloride (4), tonzonium bromide (14), triclobisonium chloride (10), troxonium tosilate (13), vecuronium bromide (46).

(b) cefalonium (16), hexasonium iodide (15), oxysonium iodide (15).

(c) alazanine triclofenate (13), chlorisondamine chloride (6), distigmine bromide (16), dithiazanine iodide (8), domiphen bromide (23), hexadimethrine bromide (8), isopropamide iodide (8), neostigmine bromide (4), obidoxime chloride (16), pralidoxime iodide (10), propanteline bromide (1), propyromazine bromide (12), pyridostigmine bromide (6), tridihexethyl iodide (6), tropenziline bromide (11) tubocurarine chloride (1), isopropamide iodide (8), pralidoxime iodide (10).

ecothiopate iodide (6), mopenzolate bromide (10), parapenzolate bromide (14), pipenzolate bromide (6).

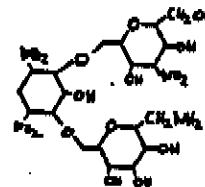
atropine methonitrate (4), buzepide metiodide (14), diphemaniil metilsulfate (4), gallamine triethiodide (1), homatropine methylbromide (1), octatropine methylbromide (10), poldine metilsulfate (13), thihexinol methylbromide (1), tricyclamol chloride (4).

acetylcholine chloride (4), carbachol (4), choline chloride (4), choline gluconate (1), choline salicylate (15), choline theophyllinate (8), methacholine chloride (1), nitricholine perchlorate (6).

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- izine**  
**(-yzine)**
- (a) **diphenylmethyl piperazine derivatives**
- antihistaminics : G.2.0.0 : buclizine (4), cetirizine (51), chlorcyclizine (1), clocinazine (15), cyclizine (1), elbanizine (60), flotrenizine (48), pibaxizinc (62), trenizine (48).
- homochlorcyclizine (10) (serotonin antagonist)
- tranquillizers: etodroxizine (18), hydroxyzine (6).
- various: benderizine (40) (antiarrhythmic), decloxizine (19) (respiratory insufficiency), ropizine (36) (anticonvulsant).
- rizine**
- antihistaminics/cerebral (or peripheral) vasodilators: belarizine (36), buterizine (42), cinnarizine (11), dotarizine (50), flunarizine (22), lifarizine (66), tamolarizine (66), trelnarizine (62).
- chemically related: pipoxizine (32) (respiratory insufficiency)
- (b) phenothiazine derivatives: chloracyzine (12) (vasodilator), fluacyzine (25) (sedative), moracizine (25) (antiarrhythmic), tiracizine (62) (antiarrhythmic) benzilate esters: benactyzine (6) (tranquillizer), benaprizine (26) (anti-parkinsonian).
- phenylpiperazine: dimetholizine (10) (antiallergic), dropropizine (18)/levodropropizine (64) (antitussive).
- antibiotic "cef": cefatrizine (34)
- pyrazine derivatives: ampyzine (15) (central nervous stimulant), triampyzine (15) (anticholinergic).
- indoloquinolines (anticholinergic): metoquizine (17), toquizine (17).

USAN



- kacin**
- S.6.3.0
- antibiotics, kanamycin and bekanamycin derivatives (obtained from Streptomyces kanamyceticus)**
- (USAN: antibiotics obtained from Streptomyces Kanamyceticus (related to kanamycin))
- (a) amikacin (30), arbekacin (56), amikacin (30), butikacin (41), dibekacin (31), propikacin (43)
- (c) bekanamycin (24), kanamycin (10)
- other aminoglycoside antibiotics:
- Strept. griseus: dihydrostreptomycin (1) (semisynthetic), streptomycin (1), streptoniazid (13) (semisynthetic)
- Strept. tenebrarius: apramycin (31), nebramycin (19) (mixture of several antibiotics, including apramycin and tobramycin), tobramycin (28).
- Bacillus circularis: butirosin (25)

-micin antibiotics obtained from various Micromonospora: USAN  
(S.6.5.0) (USAN: antibiotics (Micromonospora strains))  
astromicin (44), betamicin (38), etisomicin (47), gentamicin (22),  
isepamicin (54), maduramicin (52), megalomicin (37), micronomicin (45),  
mirosamicin (58), netilmicin (36), pentisomicin (41), repromicin (37),  
rosaramicin (41) (prev. rosamicin), semduramicin (60), sisomicin (25),  
Strept. fradiae: neomycin (1)  
Strept. rimosus (chemical form. not clarified): neutramycin (15)  
Strept. rimosus: paromomycin (28)  
Strept. ribosidificus: ribostamycin (27)  
Strept. lividus: lividomycin (32)

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-kalant potassium channel blockers  
(a) almokalant (64), torikalant (64)

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-kalim potassium channel activators, antihypertensive  
H.3.0.0  
(a) aprikalim (64), bimakalim (64), cromakalim (58)/levcromakalim (66), emakalim  
(66), rilmakalim (65).

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-kef- casokefamide (65), metkefamide (44)

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-kiren renin inhibitors  
H.3.0.0  
(a) ciprokiren (69), ditekiren (62), onalkiren (61), remikiren (66), terlakiren  
(66), zankiren (70).

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-leukin interleukin type substances:  
S.7.0.0  
(USAN: interleukin-2 type substances)  
(a) aldesleukin (63), celmoleukin (65), teceleukin (54)  
pegaldesleukin (67)

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-lukast leukotriene receptor antagonists, see -ast

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-mab            monoclonal antibodies (see also Annex)  
S.7.0.0  
-amab           rat origin  
  
-emab           hamster origin  
  
-imab           primate origin  
  
-omab           mouse origin:

ba(c) bacterial: edobacomab (69)  
  
li(m) lymphocyte: balimomab (67), dorlimomab aritox (66), enlimomab (70),  
maslimomab (66), telimomab aritox (66), zolimomab aritox (69).  
  
ci(r) cardiovascular: biciromab (66), imciromab (66).  
  
pr(o) tumour (prostate): capromab (70)  
  
tu(m) tumour (miscellaneous): altumomab (68), detumomab (70), satumomab (67)

-umab           human origin:  
  
ba(c) bacterial: nebacumab (66)  
  
tu(m) tumour: votumumab (70)  
  
vi(r) viral: sevirumab (66), tuvirusab (66)

-ximab           chimeras origin  
  
ci(r) cardiovascular: abciximab (70)  
  
(c)            muromonab CD3 (59)

---

-mantadine)    adamantane derivatives   
-mantine )  
(a)            antiviral: S.5.3.0 : amantadine (15), rimantadine (17), somantadine (51),  
                  tromantadine (28).  
  
                  antiparkinsonian: E.2.0.0. : carmantadine (31), dopamantine (31), memantine  
                  (35).  
  
(b)            anthelmintic: S.3.1.0 : dimantine (14)  
  
(c)            adamexine (36) (mucolytic), amantocillin (17) (antibiotic), bolmantalate  
                  (16) (anabolic).

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-meline           cholinergic agents, arecoline derivatives  
  
                  xanomcline (70)

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mer- or  
-mer- (d) **mercury-containing drugs, antimicrobial or diuretic (deleted from General Principles in List 28 prop. INN)**

- (a) S.2.2.0 antimicrobial: meralein sodium (13), merbromin (1), mercurbutol (1), otimerate sodium (51), phenylmercuric borate (4), sodium timerfonate (13), thiomersal (1)

'mer- and -mer- can be used for any type of substances and are no longer restricted to use in INNs for mercury-containing drugs (18th Consultation on INNs 1988).

N.1.3.0 diuretic: chlormerodrin (4), chlormerodrin (197 Hg) (24), meralluride (1), mercaptomerin (1), mercuderamide (1), mercumatilin sodium (4), mercurphylline (1), merisoprol (197 Hg) (24) (diagnostic), mersalyl (4).

- (b) difemerine (17) (spasmolyt.), dimercaprol (1) (antidote, -SH group), lomerizine (68), (cerebral vasodilator), mercaptopurine (6) (cytostatic, -SH group), nifurmerone (16), pemerid (25) (antituss.), suxemerid (25) (antituss.).
- (c) hydrargaphen (10)

---

USAN

-mer **polymers:**

(a) amilomer (33), cadexomer iodine (46), carbetimer (50), carbomer (21), crilanomer (53), dextranomer (33), eldexomer (51), maletamer (14), poloxamer (34), porfimer sodium (64), surfomer (44)

(b) succimer (42)

---

-mesine **σ (sigma) receptor ligand**

igmesine (68)

---

-mestane **aromatase inhibitors:**  
L.0.0.0/Q.2.1.0

exemestane (65), formestane (66), minamestane (64)

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met(h)asone **see pred**

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BAN, USAN

-metacin (a) **anti-inflammatory, indometacin derivatives**

(USAN: -methacin: anti-inflammatory substances (indomethacin type))

A.4.2.0  
(a) acetmetacin (32), cinmetacin (24), clometacin (27), delmetacin (48) (originally demetacin (42)), duometacin (27), glucametacin (32), indometacin (13), niometacin (33), oxametacin (37), pimmetacin (47), proglumetacin (35), sermetacin (36), talmmetacin (46), zidometacin (39).

other anti-inflammatory, indole derivatives: etoprindole (22), indopine(12), indoxole (17), nictindole (28).

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-micin            see -kacin

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-mifene           see -ifene

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mito- (d)        antineoplastics, nucleotoxic agents  
L.0.0.0        (deleted from General Principles in List 24 prop. INN)

- (a)            mitobronitol (20), mitocarcin (25), mitoclomine (18), mitoflaxone (60), mitogillin (17), mitoguazone (20), mitolactol (26), mitomalcin (19), mitomycin (26), mitonafide (40), mitopodozide (17), mitoquidone (54), mitosper (24), mitotane(21), mitotenamine (17), mitoxantrone (44), mitozolomide (51).

mitindomide (48)

---

-monam           monobactam antibiotics

USAN

S.6.0.0

- (a)            carumonam (51), gloximonom (54), oximonam (54), pirazmonam (58), tigemonam (57)

- (c)            aztreonam (48)
- 

-mostim           see -stim

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-motine           antivirals, quinoline derivatives (19th Report 1970)

USAN

S.5.3.0        (USAN: antiviral quinoline derivatives)



famotine (23), memotine (22)

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-moxin (d)       monoamine oxidase inhibitors, hydrazine derivatives\*

C.3.1.0

- (a)            benmoxin (20), cimemoxin (17), domoxin (14), octamoxin (15)

\*not part of definition

- (c)            carbenzide (11), etryptamine (12), fenoxypipazine (12), iproclozide(13), iproniazid (1), isocarboxazid (11), mebanazine (15), nialamide (10), pargyline (13), phenelzine (10), pheniprazine (11), tranylcypramine (11).

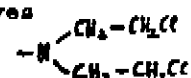
TRS 581

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USAN

-mustine  
L.2.0.0

antineoplastic, alkylating agents, ( $\beta$ -chloroethyl)amine derivatives



(USAN: antineoplastic agents ([ $\beta$ -chloroethylamine derivatives]))

- (a) alestramustine (68), ambamustine (60), atrimustine (61), bendamustine (48), bofumustine (44), carmustine (24), ditiomustine (49), ecomustine (61), elmustine (49), estramustine (24), fotemustine (57), galamustine (61), lomustine (27), mannomustine (8), neptamustine (48) (originally pentamustine (45)), nimustine (37), prednimustine (31), ranimustine (55), semustine (27), spiromustine (47), tallimustine (68), tauromustine (50), uramustine (13).
- (c) chlorambucil (6), chlormethine (1), chlornaphazine (1), cyclophosphamide (10), defosfamide (12), ifosfamide (23), melphalan (8), mitoclomine (18), mitotenamine (17), sarcoclysin (17), trichlormethine (11), trofosfamide (23).

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BAN, USAN

-mycin (a)

antibiotics, produced by Streptomyces strains (see also -kacin)

S.6.0.0

(USAN: antibiotics produced by Streptomyces strains)

- (a) amfomycin (12), antelmycin (15), apramycin (31), avilamycin (46), azalomycin (26), azithromycin (58), bambermycin (21), bekanamycin (24), berythromycin (26), bicozamycin (38), biniramycin (23), bluensomycin (14), capreomycin (12), carbomycin (1), clarithromycin (59), clindamycin (21), coumamycin (15), daptomycin (58), dihydrostreptomycin (1), diproleandomycin (33), dirithromycin (53), efrotomycin (53), endomycin (6), enramycin (23), onviomycin (31), erythromycin (4), estomycin (14 - deleted in List 28), flurithromycin (51), fosfomycin (25), fosmidomycin (46), ganefromycin (68), hachimycin (23), heliomycin (25), hydroxymycin (8 - deleted in List 28), josamycin (23), kanamycin (10), kitasamycin (13), laidlomycin (61), lexithromycin (65), lincomycin (13), lividomycin (32), maridomycin (32), midecamycin (30), mikamycin (17), mirincamycin (31), mocimycin (28), natamycin (15), nebramycin (19), neomycin (1), neutramycin (15), oleandomycin (6), paldimycin (55), paromomycin (10), paulomycin (47), pirlimycin (47), primycin (38), pristinamycin (12), ranimycin (20), relomycin (15), ribostamycin (27), rifamycin (13), rokitamycin (53), roxithromycin (54), salinomycin (37), sedecamycin (55), spectinomycin (13), spiramycin (6), stallimycin (30), steffimycin (20), streptomycin (1), terdecamycin (65), tobramycin (26), troleandomycin (24), trospectomycin (53), vancomycin (6), viomycin (4), virginiamycin (18).

antibiotics, antineoplastics:

ambomycin (13), antramycin (17), azotomycin (13), bleomycin (23), cactinomycin (15), dactinomycin (18), duazomycin (13), lucimycin (13), mitomycin (26), nogalamycin (16), olivomycin (18), peliomycin (15), peplomycin (44), plicamycin (50) (previously mithramycin (16)), porfiromycin (15), puromycin (15), rufocromomycin (12), sparsomycin (13), talisomycin (41)

antibiotics, antineoplastics, antibacterial: cirolemycin (21)

antibiotic, antifungal:

hamycin (17), lidimycin (20), rutamycin (14)

(c)

antibiotic, antibacterial:

aspartocin (11), azidamfenicol (14), cetofenicol (14), chloramphenicol (1), cloramfenicol pantotenat comp. (14), cycloserine (6), novobiocin (6), ostreogrycin (6), rifamide (15), rifampicin (17), streptoniazid (13), streptovarycin (6), thiamphenicol (10), tylosin (16).

antibiotic, antifungal:  
amphotericin B (10), candicidin (17), filipin (20), kalafungin (20),  
nystatin (6), viridofulvin (16).

antibiotic, antineoplastic:  
daunorubicin (20), mitomalcin (19), streptonigrin (14) (deleted in List 33).

see also -rubicin

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**nab** **cannabinol derivatives** USAN

(USAN: -nab; or -nab-: cannabinol derivatives)

(a) cannabinol (23), dronabinol (51), menabitan (49), nabazenil (49), nabilone (49), nabitane (42), naboctate (45), nonabine (47), pirnabin (41), tinabinol (49)

(b) fenabutene (26), nabumetone (44)

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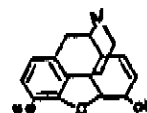
**nal-** **narcotic antagonists/agonists related to normorphine** USAN

B.2.0.0 (USAN: narcotic agonists or antagonists related to normorphine)

(a) nalbuphine (21), nalmeferone (49) (originally nalmetrene (47)), nalmexone (19), nalorphine (1), naloxone (13), naltrexone (29).

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**-naritide** see **-tide**

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**ni-** **NO<sub>2</sub> - derivatives and nicotinic acid derivatives**

(a) NO<sub>2</sub> - derivatives

**nifur-** all INNs of this series (see under **nifur-**)

**nitro-**: nitroclofene (41), nitrocycline (14), nitrodan (15), nitrofural (1), nitrofurantoin (11), nitromifene (33), nitroscanate (33), nitrosulfathiazole (1), nitroxinil (19), nitroxoline (15).

**nit-**: nitracrine (35), nitrafudam (40), nitramisole (33), nitraqazone (53), nitrazepam (16), nitrefazole (46), nitricholine perchlorate (6).

**nit- and -nit-**: nitarsons (17), ranitidine (41).

**ni-**: nibroxane (35), niclofolan (20), niclosamide (13), nidroxyzone (6), nifenalol (22), nihydrazone (10), nimesulide (44), nimorazole (22), niridazole (17)

**ni-dipine**: nicardipine (42), nifedipine (27), niludipine (38), nisoldipine (42), nitrendipine (42).

**-nidazole**: for INNs of this series see under **-nidazole**

nicotinic acid or nicotinoyl alcohol derivatives

**nico-**: nicoboxil (43), nicoclonate (29), nicocodine (12), nicocortonide (40), nicodicodine (15), nicofibrate (31), nicofuranose (14), nicofurate (28), nicomol (23), nicomorphine (7), nicopholine (1), nicothiazone (10), nicotinamide (4), nicotinic acid (4), nikethamide (4).

inositol nicotinate (16), xantinol nicotinate (16).

**nic-**: nicafeine (40), nicainoprol (46), nicametate (15), nicardipine (42), nicergoline (26), nicoritol (23), niceverine (15), nicorandil (44), nicoxamat (44), nictindole (28), nizofenone (44)

**ni-**: nialamide (10), niaprazine (24), nifenazone (15), niometacin (33), niprofazone (29), nixylic acid (17).

**-nicate: antihypercholesterolaemic and/or vasodilating nicotinic acid esters**

H.4.0.0

F.2.2.0

(a) ciclonicate (33), derpanicate (58), estrapronicate (34), glunicate (51), hepronicate (22), micinicate (44), pantenicate (56), sorbinicate (33).

(b) nitrile derivative: nimazone (21)  
other: nifungin (24), nimidane (34), nisbuterol (38).

(c) **NO<sub>2</sub> - derivatives**: acenocoumarol (6) (anticoag.), azathioprine (12) and tiamiprine (15) (antimetabolites), bronopol (14) (antiseptic), chloramphenicol (1) (antibiotic), clonazepam (22) (sed.), flurantel (25) (anthelmintic), flutamide (33) (nonsteroid anti-androgen).

see also Pharm S/Nom 562

BAN, USAN

**-nidazole (a) antiprotozoals, metronidazole derivatives**

S.3.3.0 (USAN: antiprotozoal substances (metronidazole type))

Y.0.0.0

(a) abunidazole (52), azanidazole (38), bamnidazole (37), benznidazole (31), carnidazole (32), etanidazole (57), fexinidazole (37), flunidazole (21), ipronidazole (21), metronidazole (11), misonidazole (38), moxnidazole (33), ornidazole (28), panidazole (24), pimnidazole (57), pirinidazole (32), propenidazole (45), ronidazole (18), satranidazole (48), secnidazole (30), sulnidazole (33), ternidazole (34), tinidazole (21), tivanidazole (48).

(c) dimetridazole (17), nimorazole (22), stirimazole (25).

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**-nidine see -onidine**



USAN

**nifur- (d) 5-nitrofuran derivatives**

S.2.1.0

(a)

nifuradene (16), nifuraldezone (17), nifuralide (34), nifuratel (17), nifuratrone (24), nifurdazil (17), nifurethazone (10), nifurfoline (20), nifurimide (18), nifurizone (22), nifurmazole (22), nifurmerone (16), nifuroquine (36), nifuroxazide (14), nifuroxime (11), nifurpipone (20), nifurpirinol (22), nifurprazine (16), nifurquinazol (18), nifursemizone (16), nifursol (20), nifurthiazole (14), nifurtimox (21), nifurtoinol (36), nifurvidine (17), nifurzide (37).

- (c) furalazine (13), furaltadone (17), furazolidone (13), furazolium chloride (15), furmethoxadone (8), levofuraltadone (17), nifuroxzone (6), nihydrazone (10), nitrofural (1), nitrofurantoin (11), thiofuradene (11).

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-nii see -azenil, also for -carnil, -quinil

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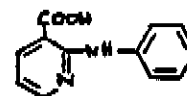
-nixin anti-inflammatory, anilinoacetic acid derivatives

A.4.2.0

- (a) butanixin (32), clonixin (22), diclonixin (31), flunixin (31), isonixin (34), metanixin (31).

- (c) clonixeril (22), niflumic acid (17), nixylic acid (17).

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-ol (d) for alcohols and phenols (delete from General Principles in 14th Report)

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-olol (a)  $\beta$ -adrenoreceptor antagonists  
(BAN: beta-adrenoreceptor antagonists)

BAN, USAN

E.5.2.0

aromat. ring -O-CH<sub>2</sub>-CHOH-CH<sub>2</sub>-NH-R

(BAN: beta adrenoreceptor blocking agents of the propranolol group)

(USAN: beta-blockers)

- (a) acebutolol (28), adaprolol (63), adimolol (50), afurolool (40), alprenolol (19), ancrolol (47), arnolol (56), arotinolol (48), atenolol (33), befunolol (39), betaxolol (40), bevantolol (36), bisoprolol (48), bometolol (42), bopindolol (42), bornaprolol (46), bucindolol (43), bucumolol (35), bufetolol (30), bunitrolol (28), bunolol (22), bupranolol (27), butocrolol (38), butofilolol (40), carazolol (36), carpindolol (42), carteolol (35), celiprolol (35), cetamolol (47), cicloprolol (48), cinamolol (44), cloranolol (41), crinolol (41) (replaced by pacrinolol (44)), dexpropranolol (21), diacetolol (41), draquinolol (54), ecastolol (56), epanolol (52), ericolol (50), esmolol (50), exaprolol (32), falintolol (53), fleistolol (53), flusoxolol (50), idropranolol (31), imidolol (49) (replaced by adimolol (50)), indenolol (37), indopanolol (48), iprocrolol (39), isoxaprolol (45), levobetaxolol (61), levobunolol (42), levomoprolol (58), mepindolol (36), metipranolol (38), metoprolol (30), moprolol (36), nadolol (34), nadoxolol (28), nafetolol (39), nebivolol (56), nipradilol (50) (previously nipradolol (49)), oxprenolol (20), pacrinolol (44), pafenolol (46), pamatolol (36), pargolol (36), penbutolol (25), penirolol (36), pindolol (23), pirepolol (48), practolol (23), primidolol (42), procinolol (25), propranolol (15), ridazolol (51), ronactolol (57), soquinolol (43), spirendolol (46), talinolol (28), tazolol (31), teoprolol (43), tertatolol (48), tienoxolol (56), tilisolol (57), timolol (29), tiprenolol (23), tolamolol (29), toliprolol (28), trigevolol (56), xibenolol (48), xipranolol (22)

- (b) Q.2.3.0: stanozolol (18) (anabolic steroid)

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-opamine see -dopa

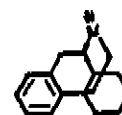
-orex (a) **anoretics** BAN, USAN  
M.1.0.0  
(BAN: anorexic agents, phenethylamine derivatives)  
(USAN: anorexics)

(a) acridorex (21), amfepentorex (16), aminorex (14), benfluorex (25),  
clobenzorex (18), cloforex (16), clominorex (14), difemetorex (41), etolorex  
(20), fenisorex (29), fenproporex (17), flucetorex (30), fludorex (19),  
fluminorex (14), formetorex (14), furfenorex (16), indanorex (30), mefenorex  
(19), morforex (26), oxifentorex (20), pentorex (16), picilorex (40),  
tiflorex (34).

(c) amfecloral (12), amfepramone (13), amfetamine (55), benzfetamine (55),  
chlorphentermine (11), clortermine (22), dexamphetamine (55), fenbutrazate  
(12), fenfluramine (14), levamphetamine (12), ortetamine (13),  
phendimetrazine (11), phenmetrazine (6), phentermine (11).

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**orphan** **narcotic antagonists/agonists, morphinan derivatives** USAN  
A.4.1.0 (USAN: -orphan: morphinan derivatives that are narcotic  
B.2.0.0 antagonists or agonists)



(a) A.4.1.0: butorphanol (31), dextromethorphan (1), dextrorphan (1), dimemorfan  
(30), ketorfanol (49), levomethorphan (1), levophenacilmorphan (9),  
levorphanol (4), norlevorphanol (9), oxilorphan (31), phenomorphan (5),  
proxorphan (43), racemethorphan (1), racemorphan (1), xorphanol (48).

TRS 581 B.2.0.0: levallorphan (2)

-orph-: -orphine: acetorphine (17), alletorphine (25), buprenorphine (29),  
cyprenorphine (17), desomorphine (5), diprenorphine (21), etorphine (17),  
homprenorphine (25), methyl-desorphine (5), methyl-dihydromorphine (5),  
nalorphine (1), nicomorphine (7), normorphine (7).

-orphinol: hydromorphinol (11).

-orphone: conorphone (46), hydromorphone (1), oxymorphone (5),  
pentamorphone (60), semorphone (67).

(b) emorfazone (44), morforex (26), morpheridine (6), orphenadrine (8).

-ox -alox **antacids, aluminium derivatives:** glucalox (13), sucralox (13);

-dox **antibacterials, quinoline dioxide derivatives:** carbadox (19), ciadox (44),  
cinoquidox (40), drazidox (24), mequidox (19), olaquindox (31), temodox  
(27).

-pirox **antimycotic pyridone derivatives:** ciclopirox (26), metipirox (26), rilopirox  
(56)

- xanax **anti-allergics, tixanox group:** mepixanox (49), sudexanox (44), tixanox (37), traxanox (44).
- other: cefminox (53)(antibiotic), nifurtimox (21)(antiprotozoal), sulbenox (37) (animal growth regulator), acipimox (33)(antilipemic), etofenprox (57)(insecticide).

BAN, USAN

-oxacin (a) **antibacterials, nalidixic acid derivatives**

S.5.5.0 (BAN: antibacterial agents of the cinoxacin group)  
(USAN: antibacterial agents (nalidixic acid type))



- (a) amifloxacin (51), binfloxacin (60), cefefloxacin (68), cinoxacin (32), ciprofloxacin (50), clinafloxacin (67), danofloxacin (61), difloxacin (55), droxacin (36), enoxacin (49), enrofloxacin (56), esafloxacin (60), fleroxacin (56), grefloxacin (68), ibafloxacin (60), irloxacin (53), levofloxacin (64), lomefloxacin (58), marbofloxacin (65), merafloxacin (69), miloxacin (40), nadifloxacin (64), norfloxacin (46), ofloxacin (49), orbifloxacin (68), pefloxacin (45), rosoxacin (36), rufloxacin (57), sarafloxacin (62), sparfloxacin (63), temafloxacin (58), tioxacin (34), tosufloxacin (60), vebufloxacin (69)
- (c) flumequine (34), nalidixic acid (13), oxolinic acid (15), pipemidic acid (32), piromidic acid (27)
- metioxate (34).

USAN

-oxan(e) **benzodioxane derivatives:**

(USAN:  $\alpha$ -adrenoreceptor antagonists; benzodioxane derivatives)

- (a)  **$\alpha$ -adrenoreceptor antagonists:**  
azaloxan (52)(antidepressant), fluparoxan (58)(antidepressant), idazoxan (49)( $\alpha_2$ ), imiloxan (52)( $\alpha_2$ )(antidepressant), piperoxan (1)(sympatholytic), proroxan (39),
- antihypertensives:  
flesinoxan (55), guabenxan (32), guanoxan (15)
- tranquillizers:  
butamoxane (12), ethomoxane (12), pentamoxane (12)
- related:  
efaroxan (59)( $\alpha_2$ )
- (b) ambenoxan (21), amoproxan (22), nibroxane (35), razoxane (40)/dexrazoxane (62), sobuzoxane (62), tolboxane (12).

-oxanide **see -anide**

-oxef **see cef-**

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-oxepine      see -pine

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-oxetine      antidepressants, fluoxetine derivatives

C.3.0.0(a)    ansoxetine (58), dapoxetine (65), duloxetine (68), femoxetine (36),  
fluoxetine (34), ifoxetine (54), litoxetine (64), nisoxetine (34),  
paroxetine (38), reboxetine (54), tomoxetine (49).

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-oxifene      see -ifene

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-oxicam      see -icam

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-pafant      platelet-activating factor antagonists

I.2.1.0(a)    apafant (60), bapafant (60), dacopafant (63), lexipafant (70), modipafant  
(65), nupafant (70), tulopafant (64)

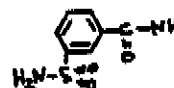
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-pamide      diuretics, sulfamoylbenzoic acid derivatives  
(could be sulfamoylbenzamide) (19th Report, 1970).

N.1.2.0

(USAN: diuretics (sulfamoylbenzoic acid derivatives))

- (a)    alipamide (18), besulpamide (52), clopamide (13), indapamide (29), tripamide  
(44), xipamide (22), zidapamide (50) (previously isodapamide (47)).
- (b)    chlorpropamide (8) (hypoglycemic), isopropamide iodide (8)  
(anticholinergic).
- (c)    bumetanide (24), furosemide (14), sulclamide (15), tiamizide (16).



USAN

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-pamil      coronary vasodilators, verapamil derivatives

F.2.1.0

(USAN: coronary vasodilators (verapamil type))

- (a)    anipamil (49), dagapamil (52), devapamil (53), emopamil (52), falipamil  
(48), gallopamil (38), levemopamil (62), nexopamil (67), ronipamil (51),  
tiapamil (43), verapamil (16).

related: bertosamil (64), bisaramil (60)

USAN

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-parcin      for glycopeptide antibiotics (INN Consultations 1973, tentative)

S.6.0.0

- (a)    avoparcin (29)
-

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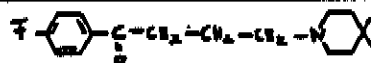
**-parin**            **heparin derivatives including low molecular mass heparins**  
I.2.0.0

- (a) ardeparin sodium (68), certoparin sodium (70), enoxaparin sodium (52), dalteparin sodium (64), heparin sodium (54), nadroparin calcium (65), parnaparin sodium (65), reviparin sodium (65), tinzaparin sodium (65).

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**-penem**            **analogues of penicillanic acid antibiotics modified in the**            **USAN**  
S.6.0.0            **five-membered ring**

- (USAN: analogues of penicillanic acid antibiotics modified in the five-membered ring)
- (a) biapenem (69), fropenem (69), imipenem (50), meropenem (60), ritipenem (67), sulopenem (68)



**-perone**            **tranquilizers, neuroleptics, 4'-fluoro-4-piperidinobutyrophenone derivatives**            **USAN**  
(peridol)

C.1.0.0  
C.2.0.0            (USAN: 4'-fluoro-4-piperidinobutyrophenone derivatives; antianxiety agents; neuroleptics)

- (a) aceperone (14), amiperone (14), biriperone (51), carperone (24), cicarperone (28), cinuperone (53), cloroperone (38), declenperone (42), duoperone (54), fenaperone (28), fluspiperone (34), lenperone (27), lodiperone (44), melperone (34), metrenperone (56), milenperone (37), mindoperone (38), moperone (14), nonaperone (44), ocaperidone (64), pipamperone (17), pirenperone (46), prideperone (54), primaperone (17), propyperone (16), roxoperone (17), setoperone (51), spiperone (17), timiperone (40).

closely related: azabuperone (34), azaperone (18), lodiperone (44), zoloperone (39)

benperidol (14), bromperidol (33), clofluperol (18), droperidol (14), fluanisone (13), haloperidol (10), trifluperidol (16).

**-peridone**            **cloperidone (17), domperidone (36), etoperidone (36), iloperidone (69), ocaperidone (64), risperidone (57), tioperidone (37)**

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**-pidem**            **alpidem (53), necopidem (66), saripidem (67), zolpidem (53).**  
C.1.0.0

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**-pin(e)**            **see also Pharm S/Nom 970 (tricyclic compounds)**

**-dipine**            **see -dipine**

- (a)-zepine     **antidepressant/neuroleptic**: C.3.2.0 : dibenzepin (14), elanzepine (35), enprazepine (30), mezepine (22), nuvenzepine (59), prazepine (15), propizepine (19), tilozepine (40).
- tricyclic antiulcer: J.O.O.O : darenzepine (52), pirenzepine(30),siltenzepine (63), telenzepine (50), zolenzepine (48).
- tricyclic anticonvulsant: A.3.1.0 : carbamazepine (15), etazepine (51), oxcarbazepline (41).
- hyperthermia: amezepine (42)
- apine         **psychoactive** : C.O.O.O : amoxapine (25), batelapine (64), clotiapine (16), clozapine (22), flumezapine (47), fluperlapine (46), loxapine (22), metiapino (22), mirtazapine (61), olanzapine (67), pentiapine (56), perlapine (23), rilapine (52), serazapine (63), tenilapine (52).
- cilpine       **antiepileptic** A.3.1.0: dizocilpine (60)
- oxepin        cidoxepin (17), doxepin (15), maroxepin (54), metoxepin (33), pinoxepin (18), savoxepin (56), spiroxepin (32).
- oxopine       traboxopine (58)
- sopine        adosopine (63)
- tepinas       citatepine (54), clorotepine (29), damotepine (27), metitepine (27), tropatepine (28).
- dosulepin (15)
- (b)     atromepine (15), noscapine (7), prozapine (14).
- (c)     clobenzepam (25), homopipramol (20), opipramol (15).

-piprazole     **see -prazole**

-pirox         **see -ox**

-planin        actaplanin (34), mideplanin (66), ramoplanin (57), teicoplanin (48)

-plase         **see -teplase, -uplase under -ase**

-platin        **antineoplastic agents, platinum derivatives** USAN

L.O.O.O       (USAN: antineoplastics (platinum derivatives))

- (a)           carboplatin (48), cisplatin (39), dexormaplatin (64), enloplatin (64), iproplatin (51), lobaplatin (65), miboplatin (66), ormaplatin (63), oxaliplatin (56), sebriplatin (68), spiroplatin (48), zeniplatin (63).

-poetin        **erythropoietin type blood factors** BAN, USAN

I.O.O.O

- (a)           epoetin alfa (62), epoetin beta (62), epoetin gamma (67)

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**-porfin      benzoporphyrin derivatives**

- (a)      temoporfin (70)

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**-pramine (a) substances of the imipramine group**  
C.3.2.0      (USAN: imipramine type compounds)



- (a)      saturated dibenzazepine:  
azipramine (36), carpipramine (16), cianopramine (47), ciclopramine (29),  
clocapramine (28), clomipramine (17), deprimine (31), desipramine (13),  
imipramine (8), ketimipramine (17), lofepramine (24), lopramine  
(24) (replaced by lofepramine (34)), metapramine (34), mosapramine (64),  
quinupramine (32), tampramine (54), tienopramine (38), trimipramine (13),  
imipraminoxide (36).
- (c)      unsaturated dibenzazepine:  
carbamazepine (15), homopipramol (20), opipramol (15)

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**-prazole      antiulcer, benzimidazole derivatives**

USAN

J.0.0.0      (USAN: antiulcerative benzimidazole derivatives)

- (a)      cinprazole (34), dapiprazole (45), disuprazole (56), esaprazole (45),  
fuprazole (39), lansoprazole (60), leminoprazole (68), nilprazole (37),  
omeprazole (46), pantoprazole (62), picoprazole (46), rabeprazole (69),  
saviprazole (62), timoprazole (35), ufiprazole (58).

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**-piprazole      psychotropics, phenylpiperazine derivatives**

C.0.0.0

- (a)      elopiprazole (70), enpiprazole (24), lorpiprazole (60), mepiprazole (24),  
tolpiprazole (25)
- (b)      dapiprazole (see above)

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**pred      prednisone and prednisolone derivatives**

USAN

Q.3.3.0      (USAN: pred-; -pred- or -pred)

- (a)      chloroprednisone (12), cloprednol (31), difluprednate (21), domoprednate  
(47), fluprednidene (19), fluprednisolone (13), halopredone (36),  
isoflupredone (36), isoprednidene (24), loteprednol (64), mazipredone (32),  
moprednisone (15), methylprednisolone (8), methylprednisolone aceponate  
(52), methylprednisolone suleptanate (56), oxisopred (29), prednazate (16),  
prednazoline (22), prednicarbate (44), prednimustine (31), prednisolamate  
(13), prednisolone (6), prednisolone steaglate (16), prednisone (6),  
prednylidene (13), oxisopred (29), tipredane (54).
- (c)      **-methasone or -metasone:** alclometasone (41), beclometasone (17),  
betamethasone (11), betamethasone acibutate (26), cornetasone (29),  
desoximetasone (20), dexamethasone (8), dexamethasone acefurate (57),  
flumetasone (13), halometasone (41), icometasone enbutate (70), mometasone  
(56), paramethasone (12).
- betasol:** clobetasol (26), doxibetasol (26), ulobetasol (54).



J.1.0.0: alepride (40), bromopride (27), cinitapride (41), cipropride (41), clebopride (32), dobupride (57), irolapride (55), itopride (66), isosulpride (36), lintopride (65), lorapride (44), mezacopride (56), mosapride (66), pancopride (62), raclopride (52), remoxipride (49), renzapride (60), tiapride (28), tinisulpride (44), trazolopride (51), tropapride (48), zacopride (55).

K.0.0.0: cloxacepride (42)

(c) C.0.0.0: levosulpiride (63), sulpiride (18).

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BAN, USAN

**-pril(a)      angiotensin-converting enzyme inhibitors**

H.3.0.0      (BAN: inhibitors of angiotensin-converting enzymes)  
                  (USAN: antihypertensive agents (captopril type))

(a)      alacepril (50), benazepril (58), captopril (39), ceronapril (64), cilazapril (53), delapril (54), enalapril (46), fosinopril (56), idrapril (66), imidapril (60), indolapril (50), libenzapril (58), lisinopril (50), moexipril (60), moveltipril (58), orbutopril (57), pentopril (53), perindopril (53), pivopril (52), quinapril (54), ramipril (52), rentiapril (55), spirapril (56), temocapril (64), trandolapril (53), utibapril (63), zabicipril (58), zofenopril (51).

**-prilat**

(a)      benazeprilat (58), cilazaprilat (54), onalaprilat (50), fosinoprilat (62), moexiprilat (67), perindoprilat (56), quinaprilat (60), ramiprilat (53), spiraprilat (60), trandolaprilat (60), utibaprilat (65), zabiciprilat (64), zofenoprilat (63).

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USAN

**-prim      antibacterials, trimethoprim derivatives**

S.5.5.0

(a)      aditoprim (49), baquiloprim (56), brodimoprim (44), epiroprim (44), metioprim (42), ormetoprim (21), tetroxoprim (33), trimethoprim (11), vaneprim (48).

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BAN, USAN

**-profen (a)      anti-inflammatory agents, ibuprofen derivatives**

A.4.2.0      (USAN: anti-inflammatory or analgesic substances (ibuprofen type))

(a)      alminoprofen (40), araprofen (65), bakeprofen (61), benoxaprofen (34), bermoprofen (57), bifepufen (57), carprofen (35), cicloprofen (32), cliprofen (32), dexibuprofen (61), dexindoprofen (49), dexketoprofen (70), esflurbiprofen (56), fenoprofen (26), flunoxaprofen (44), fluprofen (18), flurbiprofen (28), frabuprofen (51), furaprofen (42), furclopufen (44), hexaprofen (30), ibuprofen (16), indoprofen (32), isoprofen (40), ketoprofen (28), lobuprofen (53), lonaprofen (44), losmiprofen (61), loxoprofen (50), mabuprofen (64), mabuprofen (64), mexoprofen (33), miroprofen (44), odalprofen (66), piketoprofen (40), pirprofen (32), pranoprofen (38), suprofen (31), tazepufen (50), tetriprofen (29), tioxaprofen (39), ximoprofen (37), zaltoprofen (64), zoliprofen (55).

(b)      aprofene (12) (antispasm. coron. vasodil.), diprofene (12) (antispasm. blood vessels)

(c)      brofezil (31), protizinic acid (27), tiaprofenic acid (30).



curarizing agent: dimethyltubocurarinium chloride (1), laudexium  
metilsulfate (4), tubocurarine chloride (1).  
anti-cholinergic: toguizine (17), tiquizium bromide (47).  
antispasm. muscle relaxant: dimoxyline (1), drotaverine (17), ethaverine  
(4), flucarbril (14), niceverine (15), octaverine (18), guinetalate (16).  
bronchodilator: guinprenaline (17), tretoguinol (21), (bronchial asthma).  
oxytocic: quipazine (17)  
analgesic: glafenine (15), metofoline (12)  
local anaesthetic: cinchocaine (1), euprocín (22), guinisocaine (4).  
antituss.: iguindamine (34), noscapine (7)  
diagnostic aid: guinaldine blue (17)  
antihist.: pirquinozol (43), tritoqualine (14)  
antihyperlipidemic: climiqualine (33) (isoquin. der.).  
anti-ulcer: isotiquimide (49), tiquinamide (35)

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-racetam H.1.0.0	<b>amide type nootrope agents, piracetam derivatives</b>	BAN, USAN
	(BAN: substances of the piracetam group) (USAN: nootropic substances (piracetam type))	
(a)	aloracetam (62), aniracetam (44), cebaracetam (66), dimiracetam (68), doliracetam (53), dupracetam (38), etiracetam (40), imuracetam (42), molracetam (55), <u>levetiracetam</u> (62), nebracetam (59), nefiracetam (64), nicoracetam (63), oxiracetam (43), piracetam (22), pramiracetam (46), rolziracetam (54).	
C.0.0.0	related: tenilsetam (51)	

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-relin (a) Q.0.0.0	<b>prehormones or hormone-release stimulating peptides</b>	BAN, USAN
(a)	<u>LHRH-release-stimulating peptides</u> : buserelin (36), deslorelin (61), gonadorelin (32), goserelin (55), histrelin (53), leuprorelin (47), lutrelin (51), nafarelin (50), triptorelin (56).	
-morelin	<u>growth hormone release-stimulating peptides</u> : dumorelin (59), sermorelin (56), somatorelin (57)	
-tirelin (a)	<u>thyrotropin releasing hormone analogues</u> : azetirelin (60), fertirelin (42), montirelin (58), orotirelin (58), posatirelin (60), protirelin (31).	
(a)	<u>other</u> : corticorelin (64)	

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-relix	<b>hormone-release inhibiting peptides</b>	USAN
(a)	cetorelix (64), detirelix (56), ganirelix (65), ramorelix (68)	

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-renone N.1.8.0	<b>aldosterone antagonists, spironolactone derivatives</b>	USAN
	(USAN: aldosterone antagonists (spironolactone type))	
(a)	canrenoic acid (20) and potassium canrenoate (20), canrenone (20), dicitenone (50), mespirenone (51), spirorenone (45).	

- (b) bromchlorenone (12) (antifungal), menatetrenone (28) (antihemorrhagic), ubidecarenone (48) (in congestive heart failure).
- (c) oxprenolate potassium (53), prorenolate potassium (32), spironolactone (11), spiroxasone (14)

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<b>retin</b> P.1.0.0	<b>retinol derivatives</b>	USAN
	(USAN: -retin-)	
(a)	acitretin (56) (previously etretin (51)), doretinel (60), etretinate (41), fenretinide (51), isotretinoin (41), motretinide (38), pelretin (60), retinol (18), tretinoin (25), tretinoin tocoferil (66).	
(b)	<u>noretynodrel</u> (13), <u>secretin</u> (1), <u>trethinium</u> tosilate (14).	

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<b>-ribine</b> L.0.0.0./ S.5.3.0	<b>ribofuranil-derivatives of the "pyrazofurin" type</b>	
(a)	azaribine (19), cladribine (68), loxoribine (64), mizoribine (46), triciribine (46).	
(c)	pirazofurin (31), <u>ribavirin</u> (31), <u>riboprime</u> (20), tiazofurine (48)	
Consult. INN April 1981	related: <u>benaxibine</u> (50)	

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<b>rifa-</b> S.6.4.0	<b>antibiotics, rifamycin derivatives</b>	USAN
(a)	rifabutin (52), rifametane (61), rifamexil (67), rifamide (15), rifampicin (17), rifamycin (13), rifapentine (43), rifaximin (49) (previously rifaxidine (48)).	

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<b>-rinone</b> H.1.0.0	<b>cardiac stimulants, amrinone derivatives</b>	USAN
	(USAN: cardiotonic agents (amrinone type))	
(a)	amrinone (38), bemarkinone (57), medorinone (54), milrinone (50), nanterinone (60), olprinone (70), pelrinone (53), saterinone (56), vesnarinone (57)	
(b)	<u>gestrinone</u> (39), <u>indacrinone</u> (51), <u>taziprinone</u> (48)	

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<b>-rozole</b> L.0.0.0	<b>aromatase inhibitors, imidazole-triazole derivatives</b>	
	fadrozole (64), letrozole (70), liarozole (64), vorozole (64)	

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**-rubicin** **antineoplastic antibiotics, daunorubicin derivatives** USAN  
L.5.0.0  
(USAN: antineoplastic antibiotics (daunorubicin type))

(a) aclarubicin (44), amrubicin (65), carubicin (40), daunorubicin (20), detorubicin (41), doxorubicin (25), epirubicin (48) (originally pidorubicin (47)), esorubicin (47), idarubicin (47), leurubicin (64), medorubicin (47), pirarubicin (55), rodorubicin (54), zorubicin (39).

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**sal** **salicylic acid derivatives** USAN  
(USAN: -sal-; -sal; or sal-)

(a) **sal-** analgesic anti-inflammatory A.4.2.0 : imidazole salicylate (51), salacetamide (1), salcolex (23), saletamide (20), salfluverine (29), salicylamide (1), salprotoside (31), salsalate (28), salverine (15).  
various: salantel (29) (anthelmintic), salinazid (8) (antituberc.).  
**-sal** analgesic anti-inflammatory A.4.2.0 : detanosal (23), diflunisal (33), fendosal (35), flufenisal (22), fosfosal (37), guacetisal (40), quaimesal (50), paracetasal (65), pranosal (24), sulprosal (36), tenosal (63).  
antithrombotic: flufosal (42)  
various : antituberc. : calcium benzamidosalicylate (10), fenamisal (15), thiomersal (1) (disinfect.), triflusal (37) (antithrombotic).  
**-sal** analgesic anti-inflammatory A.4.2.0 : acetaminosalol (1), acetylsalicylic acid (IP), carbasalate calcium (27), carsalam (13), choline salicylate (15), etersalate (50), etosalamide (14), parsalimide (32), talosalate (43).  
various: homosalate (28) (sunscreen agent), lasalocid (30) (antibiotic. vet.), mersaly (4) (mercurial diuretic), osalimid (15) (choleretic), xenysalate (12) (antiseborrheic).  
**salazo-** phenylazosalicylic acid derivatives antibact. S.5.1.0: salazodine (22), salazosulfadimidine (11), salazosulfamide (1), salazosulfathiazole (1).  
**-salazine/-salazide**: mesalazine (52), olsalazine (52), sulfasalazine (55) balsalazide (48), ipsalazide (48)  
**-salan** brominated salicylamide derivatives disinfect. S.2.1.0: bensalan (18), dibromsalan (14), flusalan (16), fursalan (18), metabromsalan (16), tiosalan (18), tribromsalan (14).

(b) non-salicylic acid derivatives: macrosalb (<sup>99m</sup>Tc) (33), trioxysalen (16) (pigmenting agent).  
bronchodil.: salbutamol (20), salmefamol (23).

(c) analgesic, anti-inflammatory A.4.2.0 : aloxiprin (13), anilamate (13), benorilate (21), brostamide (29), cresotamide (28), dibusadol (24), dipyroctyl (6), ethenzamide (10), fenamifuril (16), hydroxytoluic acid (17), sodium gentisate (1), sodium glucaspaldrate (17).  
various : 4-aminosalicylates of the -caine series D.1.0.0 : ambucaine (6), hydroxyprocaine (1), hydroxytetracaine (1), propoxycaine (4).



BAN

**-stat- enzyme inhibitors**

**-stat or**  
**-stat-** (BAN: -stat: enzyme inhibitors)

**-lipastat (a) pancreatic lipase inhibitors:** orlistat (66)  
**-restat or aldose-reducing inhibitors:**

**-restat-**  
M.5.0.0  
(a) epalrestat (55), imirestat (59), ponalrestat (58), tolrestat (51),  
zenarestat (64), zopalrestat (64)

**-vastatin antilipidemic substances, HMG CoA reductase inhibitors**

(a) cirilvastatin (63), dalvastatin (64), fluvastatin (62), glenvastatin (70),  
lovastatin (57), mevastatin (44), pravastatin (57), simvastatin (58)

proteolytic enzyme inhibitors: aloxistatin (57), ulinastatin (56); camostat  
(46), nafamostat (53), patamostat (69), sepimostat (68)

various:  
batimastat (70) : matrix metalloproteinase inhibitor  
benurestat (31) : urease inhibitor  
cilastatin (50) : enzyme inhibitor/renal dehydropeptidase  
nystatin (6) : antifungal antibiotic  
pentostatatin (38) : vidarabin activity potentiator; inhibitor  
of enzymatic deaminative metabolism  
pepstatin (28) : pepsin inhibitor  
somatostatatin (43) : growth hormone release inhibiting factor  
tendamistat (44) : amylase inhibitor  
vistatolone (25) : antiviral antibiotic  
zinostatatin (40) : antineoplastic

**-steine mucolytics, other than bromhexine derivatives**

K.0.0.0  
(a) acetylcysteine (13), bencisteine (30), carbocisteine (34), dacisteine (49),  
danosteine (53), erdosteine (56), guaisteine (57), isalsteine (63),  
letosteine (38), mecysteine (13), midesteine (63), moguisteine (61),  
nesosteine (52), omonasteine (40), prenisteine (42), taurosteine (63),  
telmesteine (63).

**-ster- androgens/anabolic steroids**

(a) **-testosterone:** cloxotestosterone (12), methyltestosterone (4), testosterone  
(4), testosterone ketolaurate (16)

**-sterone:** bolasterone (13), fluoxymesterone (6), oxymesterone (12),  
penmesterol (14), prasterone (23), tiomesterone (14)

**-ster-:** epristeride (69), mesterolone (15), penmesterol (14)

(b) progestational steroids

**-gesterone:** dydrogesterone (12), haloprogestosterone (11),  
hydroxyprogesterone (8), hydroxyprogesterone caproate (8),  
medroxyprogesterone (10), hydroxyprogesterone caproate (8), norgesterone  
(14), progesterone (4)

**-sterone:** calusterone (23) (antineoplastic), dimethisterone (8), ethisterone (4), norethisterone (6), norvinisterone (10)

**various:**

**-sterone:** aldosterone (6) (corticosteroid)

**-sterol:** azacosterol (16) (hypocholesterolemic), dihydrotachysterol (1) (antihypoparathyroid), iodocholesterol ( <sup>131</sup>I) (39).

**ster:** nisterime (38) (contragestational agent), stercuronium iodide (21) (neuromuscular blocking agent)

**-(a)steride** **antineoplastic:** finasteride (62), turosteride (67).

**-stigmine (d) anticholinesterases**

E.1.2.0 (deleted from General Principles in List 24 prop. INN)

eptastigmine (62)

**-stim** **colony stimulating factors**

S.7.0.0

**-grastim** **granulocyte colony stimulating factor (G-CSF) type substances**

(a) filgrastim (64), lenograstim (64)

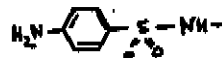
**-gramostim** **granulocyte macrophage colony stimulating factor (GM-CSF) type substances**

(a) ecogramostim (62), molgramostim (64), regramostim (64), sargramostim (66).

**-mostim** **macrophage stimulating factors (M-CSF) type substances**

(a) mirimostim (65)

**sulfa- (a)** **anti-infectives, sulfonamides**  
S.5.1.0 (BAN: sulpha-)  
(USAN: antimicrobial sulfonamides)



BAN, USAN

(a) sulfabenz (17), sulfabenzamide (27), sulfacarbamide (12), sulfacecole (30), sulfacetamide (1), sulfachlorpyridazine (10), sulfachrysoidine (1), sulfacitine (23), sulfacilomide (17), sulfaclozole (25), sulfaclozine (25), sulfadiazulfone sod. (1),

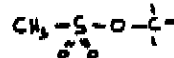
sulfadiazine (4), sulfadiazine sodium (4), sulfadicramide (4), sulfadimethoxine (10), sulfadimidine (1), sulfadoxine (20), sulfaethidole (8), sulfafurazole (1), sulfaguandine (4), sulfaguanoole (23), sulfalene (12), sulfaloxic acid (15), sulfamazone (40), sulfamerazine (4), sulfamerazine sodium (4), sulfamethizole (1), sulfamethoxazole (14), sulfamethoxy-pyridazine (8), sulfametomidine (12), sulfametoxydiazine (17), sulfametrole (31), sulfamonemethoxine (11), sulfamoxole (12), sulfanilamide (4), sulfanitran (15), sulfaperin (14), sulfaphenazole (10), sulfaproxyline (4), sulfapyrazole (18), sulfapyridine (1), sulfaquinoxaline (46), sulfarsphenamine (4), sulfasalazine (55), sulfasomizole (10), sulfasuccinamide (41), sulfasymazine (12), sulfathiazole (4), sulfathiourea (1), sulfatolamide (10), sulfatroxazole (29), sulfatrozole (24).

(c) benzylsulfamide (1), glucosulfamide (1), maleylsulfathiazole (1), mesulfamide (41), phthalylsulfamethizole (6), phthalylsulfathiazole (1), salazodine (22), salazosulfadimidine (11), salazosulfamide (1), salazosulfathiazole (1), stearyl-sulfamide (1), succinylsulfathiazole (4),

sulfisomidine (1), vanyldisulfamide (1), mafenide (1) (sulfonamide, but not sulfanilamide).

TRS 581

**-sulfan** antineoplastic, alkylating agents, methanesulfonates



L.2.0.0

(a) busulfan (6), improsulfan (35), mannosulfan (24), piposulfan (15), ritrosulfan (33), treosulfan (26).

TRS 581

**-tepa** antineoplastics, thiotepa derivatives  
L.2.0.0 (USAN: antineoplastic thiotepa derivatives)

USAN

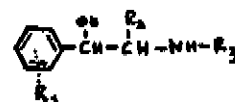
(a) azatepa (12), pumitepa (48), thiotepa (10)

**-tepine** see -pine

**-teplase** tissue type plasminogen activators, see -ase item VI

**-terol (a)** bronchodilators, phenethylamine derivatives

BAN, USAN



(previously (USAN: bronchodilators (phenethylamine derivatives))

-prenaline

or (a) amiterol (26), bambuterol (49), bitolterol (34), broxaterol (51), carbuterol (29), cimaterol (54), clenbuterol (28), colterol (36), difeterol (36), divabuterol (51), etanterol (53), fenoterol (26), formoterol (44), imoxiterol (52), mabuterol (46), naminterol (53), nardeterol (62), picumeterol (64), pirbuterol (30), procaterol (37), reproterol (30), rimiterol (26), salmeterol (55), sulfonterol (31), tobuterol (45), tulobuterol (40), zilpaterol (60), zinterol (38).

E.4.0.0

cardiac stimulants:

metaterol (43), prenalterol (38), xamoterol (48); clorprenaline (17), hexoprenaline (21), isoprenaline (1), levisoprenaline (10), metiprenaline (24), orciprenaline (14), quinprenaline (17).

deterenol (25), soterenol (20).

(b) azacosterol (16), dihydrotachysterol (1), penmestorol (14).

(c) dioxethedrine (6), isoetarine (13), methoxyphenamine (1), pseudoephedrine (11), salbutamol (20), salmefamol (23), terbutaline (22).

TRS 581

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**-terone**                    **antiandrogens**  
(Q.2.3.1)  
(a)                    benorterone (15), cyproterone (16), delanterone (42), inocoterone (54),  
osaterone (68), topterone (39), topterone (39), zanoterone (67).  
  
(c)                    clometerone (15) (anti-estrogen)

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**-tiazem**                    **calcium channel blockers, diltiazem derivatives**  
P.2.1.0  
clentiazem (61), diltiazem (30), iprotiazem (56), nictiazem (54), siratiazem  
(68)

---

**-tide**                    **peptides and glycopeptides**                    **USAN**  
(for special groups of peptides see **-actide, -pressin, -relin, -tocin**)  
  
antibiotic: nosiheptide (35)  
antidiabetic: seglitide (57)  
angiotensin convers. inhibitor: teprotide (36)  
atrial natriuretic factor type substance: anaritide (57), ularitide (69)  
diagnostic: betiatide (58), ceuletide (34), mertiatide (60), teriparatide  
(50)  
gastro-intestinal bleeding/antineoplastic: ilatreotide (66), lanreotide  
(64), octreotide (52), pentetreotide (66), vapreotide (62).  
gut motility increasing: ociltide (52)  
immunomodulator: murabutide (49), pentigetide (60), pimelautide (53),  
prezotide copper acetate (67), tabilautide (60), temurtide (60)  
neuromodulator: ebiratide (56)  
peptic ulcer: sulglicotide (29), triletide (50)  
sedative: emideltide (70)  
treatment of Parkinson's disease: doreptide (58), pareptide (38)  
  
(b)                    defibrotide (44) (nucleotide), diamfenetide (28) (fasciolicide), diclomotide  
(19) (behaviour modifier), fludroxycortide (12), glisentide (58)

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**-tidine(a)**                    **histamine-H<sub>2</sub>-receptor antagonists, cimetidine derivatives**                    **BAN, USAN**  
G.2.0.0  
(USAN: H<sub>2</sub>-receptor antagonists (cimetidine type))  
  
(a)                    bisfontidine (57), cimctidine (33), donetidine (56), ebrotidine (57),  
etintidine (44), famotidine (48), lafutidine (70), lamtidine (48),  
lavoltidine (61) (previously loxtidine (48)), lupitidine (53), mifentidine  
(50), niperotidine (54), nizatidine (48), oxmetidine (44), quisultidine  
(47) (replaced by quisultazine (51)), ramixotidine (55), ranitidine (41),  
roxatidine (54), sufotidine (54), tiotidine (44), tuvatidine (54),  
venritidine (6508, publication deferred, not yet in clinical trial),  
zaltidine (54).

- (b) benzethidine (9), furethidine (9), guanethidine (11), hexetidine (6), hydroxypethidine (5), pethidine (4), propinetidine (12).  
azacitidine (40) (antineoplastic)
- (c) metiamide (30)

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**-tilide** class III antiarrhythmics, sematilide derivatives  
artilide (67), ibutilide (63), risotilide (62), sematilide (58)

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**-tirelin** see -relin

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**-tiline** see -triptyline

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**-tizide (a)** diuretics, chlorothiazide derivatives  
N.1.2.1 (USAN: thiazide: diuretics (thiazide derivatives))



USAN

- (a) altizide (13), bemetizide (27), butizide (13), carmetizide (30), epitizide (13), hydrobentizide (14), mebutizide (15), paraflutizide (16), penflutizide (29), sumetizide (20).
- (c) bendroflumethiazide (11), benzthiazide (10), chlorothiazide (8), cyclopenthiazide (12), cyclothiazide (12), ethiazide (14), flumethiazide (10), hydrochlorothiazide (10), hydroflumethiazide (10), methyclothiazide (11), polythiazide (12), toclothiazide (12), trichlormethiazide (11).

TRS 581

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**-tocin** oxytocin derivatives

Q.1.2.0

- (a) argiprestocin (13), aspartocin (11), carbetocin (45), carginocin (35), demoxytocin (22), nacartocin (49), oxytocin (13)

USAN



**-toin (d)** antiepileptics, hydantoin derivatives

A.3.1.1

- (a) albutoin (13), doxenitoin (31), ethotoin (6), fosphenytoin (62), mephenytoin (1), metetoin (12), phenytoin (4).

ropitoin (40) (H.2.0.0.)

- (b) clodantoin (13) (antifungal), nitrofurantoin (11) (antibact.).

USAN

TRS 581

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**-trexate(a)**    **folic acid analogues**    USAN  
1.4.0.0    (USAN: folic acid analogues used as antimetabolites)  
    (a)    edatrexate (61), ketotrexate (50), methotrexate (10), trimetrexate (46)

---


USAN

**-tricin**    **antibiotics, polyene derivatives**  
S.6.2.0  
    (a)    mepartricin (34), partricin (27).  
    (b)    tyrothricin (1)  
    (c)    amphotericin B (10), candicidin (17), filipin (20), hachimycin (23), hamycin (17), levorin (15), mocimycin (28), natamycin (15), nystatin (6), pecilocin (16).

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USAN

**-triptyline**    **antidepressants, dibenzo[a,d]cycloheptane or cycloheptene derivatives**  
C.3.2.0    (USAN: antidepressants (dibenzo[a,d]cycloheptane derivatives))



    (a)    amitriptyline (11), butriptyline (16), cotriptyline (26), intriptyline (26), nortriptyline (12), octriptyline (33), protriptyline (14), amitriptylinoxide (36), demexiptiline (43), levoprotiline (56), noxiptiline (20), oxaprotiline (45), setiptiline (56)  
    (b)    oxitriptyline (21) (anticonvuls.).  
    (c)    hepzidine (15).

TRS 581    see also Pharm S/Nom 970

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**-troban**    **thromboxane A<sub>2</sub>-receptor antagonists; antithrombotic agents**  
I.2.1.0    argatroban (57), daltroban (57), linotroban (69), sulotroban (55)

---

USAN

**trop**    **atropine derivatives**  
    (USAN: trop-; or -trop-)

    (a)    parasympatholytic/anticholinergic: E.2.2.0 ;  
          tertiary amines:  
          atropine oxyde (12), benzatropine (4), decitropine (18), etybenzatropine (12), eucatropine (1), tropatepine (28), tropicamide (11), tropigline (8), tropodifene (18).

closely related:  
esbatropate (65)

quaternary ammonium salts:

atropine methonitrate (4), butropium bromide (30), ciclotropium bromide (50), cimetroplum bromide (51), flutropium bromide (50), homatropine methylbromide (1), ipratropium bromide (28), octatropine methylbromide (10), oxitropium bromide (36), phenactropinium chloride (8), ritropirronium bromide (33), sevitropium mesilate (56), sintropium bromide (47), sultroponium (18), tematropium metilsulfate (64), tiotropium bromide (67), tipetropium bromide(42), tropenziline bromide(11), xenytropium bromide (15).

various:

clobenztropine (13)(antihistaminic), cyheptropine (15)(antiarrhythmic), deptropine (12)(antiasthmatic), tropabazate (41)(tranquillizer), tropapride (48)(antipsychotic), tropirine (20)(respiratory disorders).

(b) dextropropoxyphene (7), somatropin (56)

(c) parasympatholytic/anticholinergic, tertiary amines:  
poskine (8), prampine (11), tigloidin (14).

various:

zepastine (26)(antihistaminic)

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-udine      see -uridine


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-uplase      urokinase type plasminogen activator, see -ase item VII

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-ur      see -uridine

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-uracil      USAN   
uracil derivatives used as thyroid antagonists and as antineoplastics

thyroid antagonists:    iodothiouracil (1), methylthiouracil (1),  
propylthiouracil (1).

L.4.0.0:    fluorouracil (13).

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-uridine      USAN   
uridine derivatives used as antiviral agents and as antineoplastics

S.5.3.0

L.4.0.0

L.4.0.0 : broxuridine (30), doxifluridine (44)

related:    carmofur (45), clanfenur (58), tegafur (41)

S.5.3.0 : fialuridine (68), floxuridine (16), idoxuridine (17), trifluridine (37)

-udine      related:    alovudine (68), brivudine (59), edoxudine (52), epervudine (61),  
lamivudine (66), sorivudine (64), stavudine (65), zidovudine (56).

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-vastatin      see -stat-

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- BAN, USAN
- verine (a)**      **spasmolytics with a papaverine-like action**  
F.1.0.0.  
(USAN: spasmolytics having a papaverine-like action)
- (a)      alverine (16), amifloverine (28), bietamiverine (6), butaverine (13),  
camiverine (29), caroverine (28), clofeverine (31), demelverine (17),  
denaverine (25), dexsecoverine (53), dicycloverine (6), dihexyverine (4),  
dipiproverine (10), diproteverine (51), drotaverine (17), elziverine (57),  
ethaverine (4), febuverine (27), fenoverine (28), floverine (28),  
heptaverine (16), ibuverine (21), idaverine (55), mebeverine (14), milverine  
(52), mofloverine (28), moxaverine (36), nafiverine (16), niceverine (15),  
octaverine (18), pargeverine (38), pentoxyverine (6), pramiverine (21),  
prenoverine (41), propiverine (45) rociverine (33), salfluverine (29),  
salverine (15), secoverine (38), zardaverine (59).  
  
fenpiverinium bromide (26), pinaverium bromide (32).
- (b)      cinnamaverine (10) (anticholinergic, tert. amine).
- (c)      spasmolytics chemically related to some of the above INN ending in -verine  
  
butetamate (17), butinoline (14), camylofin (12), cinnamodrine (19),  
cyclandelate (8), difemerine (17), diisopromin (11), dimoxylin (1),  
fenpiprane (17), fenylamidol (12), metindizate (16), oxybutynin (13),  
pentapiperide (10), prozapine (14), triclozate (10), tropenziline bromide  
(11).

TRS 581

- 
- USAN
- vin- and**      **vinca alkaloids**  
**-vin- (a)**      (USAN: vin-; or -vin-)
- (a)      B.1.0.0 stim. of cerebrovasc. circul.: apovincamine (48), brovincamine (42),  
vinburnine (45), vincamine (22), vincanol (37), vincantril (51), vinconate  
(47), vinpocetin (36), vinpoline (35), vintoperol (61).  
  
L.5.0.0 cytostatic: vinblastine (12), vincristine (13), vindesine (35),  
vinepidine (50), vinformide (38), vinfosiltine (64), vinglycinate (16),  
vinleucinol (64), vinleurosine (13), vinmegallate (59), vinorelbine (57),  
vinrosidine (13), vintriptol (51), vnzolidine (46).
- (b)      barbiturates: vinbarbital (1), vinylbital (12), others: vincofos (28)  
(phosphate, anthelmintic), vintiamol (16) (vit. B. deriv., antineuralgic)

- 
- USAN
- vir**      **antivirals (undefined group)**  
S.5.3.0  
(USAN: -vir; -vir; or vir-)
- (a)      aciclovir (42), afovirsen (70), alvircept sudotox (69), amitivir (67),  
atevirdine (69), buciclovir (52), denotivir (70), desciclovir (55),  
enviradene (49), ganciclovir (56), loviride (70), nevirapine (66), pirodavir  
(63), ribavirin (31), rogiclovir (62), saquinavir (69), valaciclovir (69),  
viroxime (49).

- (b) virginiamycin (18), viridofulvin (16)
- (c) avridine (50)

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USAN

**-zanox**            **antiallergic respiratory tract drugs, xanoxic acid derivatives**  
K.0.0.0

- (a) amlexanox (55), mepixanox (49), sudexanox (44), tixanox (37), traxanox (44).
- (c) xanoxic acid (33).

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**-zafone**            **alozafone derivatives**  
C.1.0.0

- (a) alozafone (40), avizafone (64), ciprazafone (50), dinazafone (46),  
dulozafone (56), lorzafone (48), oxazafone (45), rilnazafone (55).

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**-zepine**            **see -pine**

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**-zone**             **see -butazone**

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ANNEX

INNs for monoclonal antibodies

The following stem system was adopted by the members of the Expert Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations designated to deal with the selection of nonproprietary names for naming monoclonal antibodies :-

I. General stem : *-mab*

II. Sub-stems for source of product :

u	human	e	hamster
o	mouse	i	primate
a	rat	xi	chimeras

III. Sub-stems for disease or target class :

<i>-ba(c)-</i>	bacterial
<i>-ct(r)-</i>	cardiovascular
<i>-li(m)-</i>	immunomodulator
<i>-vt(r)-</i>	viral

tumors :

<i>-co(l)-</i>	colon
<i>-go(t)-</i>	testis
<i>-go(v)-</i>	ovary
<i>-ma(r)-</i>	mammary
<i>-me(l)-</i>	melanoma
<i>-pr(o)</i>	prostate
<i>-tu(m)-</i>	miscellaneous

Whenever there is a problem in pronunciation, the final letter of the substems for diseases or targets may be deleted, e.g. *-vt(r)-*, *-ba(c)-*, *-li(m)-*, *-co(l)-*, etc.

IV. Prefix :

Should be random e.g. the only requirement is to contribute to a euphonious and distinctive name.

V. Second word :

If the product is radiolabelled or conjugated to another chemical, such as a toxin, identification of this conjugate is accomplished by use of a separate, second word or acceptable chemical designation. For monoclonals conjugated to a toxin, the *-tox* stem must be included as part of the name selected for the toxin.

INDEX PAGE  
ALPHABETICAL LIST OF COMMON STEMS

-abine (see -arabine)	-cycline	-kacin
-ac	-dan	-kalant
-acetam (see racetam)	-dapson	-kalim
-actide	-dermin (see -ermin)	-kef-
-adol, -adol-	-dil	-kiren
-adom	-dilol	-leukin
-afenone	-dox (see -ox)	-lukast (see -ast)
-aj-	-dyl (see -dil)	
-al	-dipine	-mab
-aldrate	-dismase (see -ase)	-mantadine
-alol (see -olol)	-dopa	-mantine
-alox (see -ox)	-dralazine	-meline
andr	-drine	mer
-anide	-dronic acid/dronate	-mer
-anserin		-mesine
-unte)		-mestane
-apine (see -pine)	-ectin	-met(h)asone (see pred)
-(ar)abine	-entan	-metacin
-arit	erg	-micin (see -kacin)
-arol	-eridine	-mifene (see -ifene)
-arone	-ermin	mito-
-arte	estr	-monam
-ase	-etanide (see -anide)	-mostim (see -stim)
-ast	-ethidine (see -eridine)	-motine
-astine	-exine	-moxin
-azam		-mustine
-azenil	-fenamic acid	-mycin
-azepam	-fenamate	
-azocine	-fenine	nab
-azolam (see -azepam)	-fenin	nal-
-azoline	-fentanil	-naratide
-azone (see butazone)	-fibrate	ni-
-azosin	-flurane	-nicate
	-formin	-nidazole
-bactam	fos	-nidine (see -onidine)
-bamate	-frine (see -drine)	nifur-
barb	-fungin	-nil (see -azenil)
-bendazole	-fylline	-nixin
bol		
-bradine	gab	-ol
-brate (see -fibrate)	gado-	-olol
-butazone (see buzone)	gest	-olone (see pred)
-buzone	gestr (see estr)	-one
	-giline	-onide
-caine	-gillin	-onidine
-cain-	gli	-onium (see -ium)
calci	-golide	-opamine (see -dopa)
-carbef (see cef-)	-grastim (see -stim)	-orex
-carnil (see -azenil)	-grel- and -grel	orphan/orfan
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-cellose	-icam	-oxan(e)
cell- or cel-	-ifene	-oxanide
-cic	-igetide (see -tide)	-oxef (see cef-)
-cidin	-ilide	-oxepine (see -pine)
-cillide (see -cillin)	-imex	-oxetine
-cillin	-imod	-oxicam (see -icam)
-cillinam	-imus	-oxifene (see -ifene)
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-conazole	iod- or -io-	-pafant
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-crinat	-isomide	-pamil
-crine	-ium	-parcin
-cromil	-izine (-yzine)	-parin
-curium (see -ium)		-pendyl (see -dil)

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-perone  
-peridol  
-peridone (see -perone)  
-pidem  
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-piprazole (see -prazole)  
-pirox (see -ox)  
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-porfin  
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-prazole  
pred  
-prenaline (see -terol)  
-pressin  
-pride  
-pril/-prilat  
-prim  
-profen  
prost  
-prostil  
  
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-quinil (see -azenil)  
  
-racetam  
-relin  
-relix  
-renonc  
retin  
-ribine  
rifa-  
-rinonc  
-rizine (see -izine)  
-rozole  
-rubicin  
  
sal  
-sartan  
-semide  
-serpine  
-setron (see -anserin)  
som-  
-spirone  
-stat/-stat-  
-stane  
-steine  
-ster-  
-stigmine  
-stim  
sulfa-  
-sulfan  
  
-tepa  
-tepine (see -pine)  
-teplase (see -ase)  
-terol  
-terone  
-tiazem  
-tide  
-tidine  
-tilide  
-tiline (see -triptyline)  
-tirelin (see -relin)  
-tizide  
-tocin  
-toin  
  
-trexate  
-tricin  
-triptyline  
-trodist (see -ast)  
trop  
  
-udine (see -uridine)  
-uplase (see -ase)  
-ur (see -uridine)  
-uracil  
-uridine  
  
-vastatin (see -stat-)  
-verine  
vin-/-vin-  
vir  
-vudine (see -uridine)  
  
-xanox  
  
-zafone  
-zepine (see -pine)  
-zone (see -butazone)