CPC  COOPERATIVE PATENT CLASSIFICATION

C  CHEMISTRY; METALLURGY
   (NOTES omitted)

CHEMISTRY

C07  ORGANIC CHEMISTRY
    (NOTES omitted)

C07J  STEROIDS (seco-steroids C07C)

NOTE

This subclass covers compounds containing a cyclopenta[a]hydrophenanthrene skeleton or a ring structure derived therefrom:
- by contraction or expansion of one ring by one or two atoms;
- by contraction or expansion of two rings each by one atom;
- by contraction of one ring by one atom and expansion of one ring by one atom;
- by substitution of one or two carbon atoms of the cyclopenta[a]hydrophenanthrene skeleton, which are not shared by rings, by hetero atoms, in combination with the above defined contraction or expansion or not, or;
- by condensation with carbocyclic or heterocyclic rings in combination with one or more of the foregoing alterations or not.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Normal steroids, i.e. cyclopenta(a)hydrophenanthrenes, containing carbon, hydrogen, halogen or oxygen

1/00  Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 17 beta by a carbon atom, e.g. estrane, androstane

1/003  .  .  [Androstan derivatives]
1/0007  .  .  [not substituted in position 17]
1/0011  .  .  [substituted in position 17 by a keto group]
1/0014  .  .  [substituted in position 17 alpha, not substituted in position 17 beta]
1/0018  .  .  [substituted in position 17 beta, not substituted in position 17 alpha]
1/0022  .  .  [the substituent being an OH group free esterified or etherified]
1/0025  .  .  [Esters]
1/0029  .  .  [Ethers]
1/0033  .  .  [substituted in position 17 alpha and 17 beta]
1/0037  .  .  [the substituent in position 17 alpha being a saturated hydrocarbon group]
1/0004  .  .  [the substituent in position 17 alpha being an unsaturated hydrocarbon group]
1/0044  .  .  [Alkenyl derivatives]
1/0048  .  .  [Alkynyl derivatives]
1/0051  .  .  [Estrane derivatives]
1/0055  .  .  [not substituted in position 17]
1/0059  .  .  [substituted in position 17 by a keto group]
1/0062  .  .  [substituted in position 17 alpha not substituted in position 17 beta]
1/0066  .  .  [substituted in position 17 beta not substituted in position 17 alpha]
1/007  .  .  [the substituent being an OH group free esterified or etherified]
1/0074  .  .  [Esters]
1/0077  .  .  [Ethers]

1/0081  .  .  [Substituted in position 17 alpha and 17 beta]
1/0085  .  .  [the substituent in position 17 alpha being a saturated hydrocarbon group]
1/0088  .  .  [the substituent in position 17 alpha being an unsaturated hydrocarbon group]
1/0092  .  .  [Alkenyl derivatives]
1/0096  .  .  [Alkynyl derivatives]

3/00  Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 beta by one carbon atom

3/005  .  .  [the carbon atom being part of a carboxylic function]

5/00  Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 beta by a chain of two carbon atoms, e.g. pregnane and substituted in position 21 by only one singly bound oxygen atom, i.e. only one oxygen bound to position 21 by a single bond

5/0007  .  .  [not substituted in position 17 alpha]
5/0015  .  .  [not substituted in position 16]
5/0023  .  .  [substituted in position 16]
5/003  .  .  [by a saturated or unsaturated hydrocarbon group including 16-alkylidene substitutes]
5/0038  .  .  [by an alkyl group]
5/0046  .  .  [substituted in position 17 alpha]
5/0053  .  .  [not substituted in position 16]
5/0061  .  .  [substituted in position 16]
5/0069  .  .  [by a saturated or unsaturated hydrocarbon group]
5/0076  .  .  [by an alkyl group]
5/0084  .  .  [by an alkylene group]
5/0092  .  .  [by an OH group free esterified or etherified]
Normal steroids, i.e. cyclopenta(a)hydrophenanthrenes, containing carbon, hydrogen, halogen or oxygen

Normal steroids containing carbon, hydrogen, halogen or oxygen substituted in position 17 beta by a chain of two carbon atoms (C07J 5/00 takes precedence)

Normal steroids having a sulfur-containing hetero ring spiro-condensed with the cyclopenta(a)hydrophenanthrene skeleton

Normal steroids containing one or more sulfur atoms not belonging to a hetero ring

Normal steroids containing one or more nitrogen atoms not belonging to a hetero ring

NOTE

In groups C07J 41/0003 - C07J 41/0004 all references to substituents in position 17-beta of the steroid skeleton include substituents at the 17-position when there is a double bond to or from position 17, and all references to an amide group include all nitrogen substituted carbonyl groups
Normal steroids, i.e. cyclopetana(hydrophenanthrenes, containing nitrogen

41/0061 . . . {one of the carbon atoms being part of an amide group}
41/0066 . . . {the 17-beta position being substituted by a carbon atom forming part of an amide group}
41/0072 . . . {the A ring of the steroid being aromatic}
41/0077 . . . {substituted in position 11-beta by a carbon atom, further substituted by a group comprising at least one further carbon atom}
41/0083 . . . {substituted in position 11-beta by an optionally substituted phenyl group not further condensed with other rings}
41/0088 . . . {containing unsubstituted amino radicals}
41/0094 . . . {containing nitrile radicals, including thiocyanide radicals}

43/00 Normal steroids having a nitrogen-containing hetero ring spiro-condensed or not condensed with the cyclopetana(hydrophenanthrene skeleton

51/00 Normal steroids with unmodified cyclopetana(hydrophenanthrene skeleton not provided for in groups C07J 1/00 - C07J 43/00

53/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton has been modified by condensation with a carboxyclic rings or by formation of an additional ring by means of a direct link between two ring carbon atoms, {including carboxyclic rings fused to the cyclopetana(hydrophenanthrene skeleton are included in this class}

71/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton is condensed with a heterocyclic ring (spiro-condensed heterocyclic rings C07J 21/00, C07J 33/00, C07J 43/00)

73/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton has been modified by contraction of only one ring by one or two carbon atoms by hetero atoms

75/00 Processes for the preparation of steroids in general

Nor- or homo steroids

61/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton has been modified by substitution of one or two carbon atoms by hetero atoms

63/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton has been modified by expansion of only one ring by one or two atoms

65/00 Steroids in which the cyclopetana(hydrophenanthrene skeleton has been modified by contraction of two rings, each by one atom

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