

SECTION C — CHEMISTRY; METALLURGY

C07 ORGANIC CHEMISTRY

C07J STEROIDS (seco-steroids C07C) [2]

Note(s)

- 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.
- Attention is drawn to Note (3) after class C07, which defines the last place priority rule applied in the range of subclasses C07C-C07K and within these subclasses.
- Therapeutic activity of compounds is further classified in subclass A61P.

Subclass index

NORMAL STEROIDS

containing halogen or oxygen

oxygen other than as ring hetero atom.....1/00, 3/00, 5/00, 7/00, 9/00, 11/00,
13/00, 15/00

oxygen as ring hetero atom.....17/00, 19/00, 21/00

containing sulfur.....31/00, 33/00

containing nitrogen.....41/00, 43/00

other steroids.....51/00

STERIODS WITH MODIFIED SKELETON

retrosteroids.....15/00

nor-, homosteroids.....61/00, 63/00, 65/00, 67/00, 69/00

condensed with carbocyclic rings.....53/00

heterosteroids.....71/00, 73/00

PREPARATION OF STEROIDS IN GENERAL.....75/00

Normal steroids, i.e. cyclopenta[a]hydrophenanthrenes, containing carbon, hydrogen, halogen, or oxygen [2]

1/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, not substituted in position 17 beta by a carbon atom, e.g. oestrane, androstane [2]

3/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, substituted in position 17 beta by one carbon atom [2]

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 [2]

7/00 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) [2]

9/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, substituted in position 17 beta by a chain of more than two carbon atoms, e.g. cholane, cholestane, coprostane [2]

11/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, not substituted in position 3 [2]

13/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, having a carbon-to-carbon double bond from or to position 17 [2]

15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen, or oxygen, having a partially or totally inverted skeleton, e.g. retrosteroids, L-isomers [2]

17/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta[a]hydrophenanthrene skeleton [2]

- 19/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, substituted in position 17 by a lactone ring [2]
- 21/00 Normal steroids containing carbon, hydrogen, halogen, or oxygen, having an oxygen-containing hetero ring spiro-condensed with the cyclopenta[a]hydrophenanthrene skeleton [2]

Normal steroids, i.e. cyclopenta[a]hydrophenanthrenes, containing sulfur [2]

- 31/00 Normal steroids containing one or more sulfur atoms not belonging to a hetero ring [2]
- 33/00 Normal steroids having a sulfur-containing hetero ring spiro-condensed or not condensed with the cyclopenta[a]hydrophenanthrene skeleton [2]

Normal steroids, i.e. cyclopenta[a]hydrophenanthrenes, containing nitrogen [2]

- 41/00 Normal steroids containing one or more nitrogen atoms not belonging to a hetero ring [2]
- 43/00 Normal steroids having a nitrogen-containing hetero ring spiro-condensed or not condensed with the cyclopenta[a]hydrophenanthrene skeleton [2]

-
- 51/00 Normal steroids with unmodified cyclopenta[a]hydrophenanthrene skeleton not provided for in groups C07J 1/00-C07J 43/00 [2]
- 53/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by condensation with carbocyclic rings or by formation of an additional ring by means of a direct link between two ring carbon atoms [2]

Nor- or homosteroids [2]

- 61/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by contraction of only one ring by one or two atoms [2]
- 63/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by expansion of only one ring by one or two atoms [2]
- 65/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by contraction of two rings, each by one atom [2]
- 67/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by expansion of two rings, each by one atom [2]
- 69/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by contraction of only one ring by one atom and expansion of only one ring by one atom [2]

-
- 71/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton is condensed with a heterocyclic ring (spiro-condensed heterocyclic rings C07J 21/00, C07J 33/00, C07J 43/00) [2]
- 73/00 Steroids in which the cyclopenta[a]hydrophenanthrene skeleton has been modified by substitution of one or two carbon atoms by hetero atoms [2]
- 75/00 Processes for the preparation of steroids, in general [4]