# CPC COOPERATIVE PATENT CLASSIFICATION

## C CHEMISTRY; METALLURGY

(NOTES omitted)

# **CHEMISTRY**

### C07 ORGANIC CHEMISTRY

(NOTES omitted)

### C07J STEROIDS (seco-steroids C07C)

#### NOTE

This subclass <u>covers</u> 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

1/0077 . . . {Ethers}

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		1/0081 1/0085	<ul><li> {Substituted in position 17 alfa and 17 beta}</li><li> . {the substituent in position 17 alfa being a</li></ul>
1/00	Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 17 beta by a carbon atom, e.g. estrane, androstane	1/0088	<ul><li>saturated hydrocarbon group}</li><li>• { the substituent in position 17 alfa being an unsaturated hydrocarbon group}</li></ul>
1/0003 1/0007	<ul> <li>{Androstane derivatives}</li> <li>. {not substituted in position 17}</li> </ul>	1/0092 1/0096	<ul><li> {Alkenyl derivatives}</li><li> {Alkynyl derivatives}</li></ul>
1/0011 1/0014	<ul> <li>• {substituted in position 17 by a keto group}</li> <li>• {substituted in position 17 alfa, not substituted in position 17 beta}</li> </ul>	3/00	Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 beta by one carbon atom
1/0018	• • {substituted in position 17 beta, not substituted in position 17 alfa}	3/005	• {the carbon atom being part of a carboxylic function}
1/0022	• • • {the substituent being an OH group free esterified or etherified}	5/00	Normal steroids containing carbon, hydrogen,
1/0025 1/0029 1/0033 1/0037	<ul> <li> {Esters}</li> <li> {Ethers}</li> <li> {substituted in position 17 alfa and 17 beta}</li> <li> {the substituent in position 17 alfa being a</li> </ul>		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 alfa}  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 alfa}  5/0053 {not substituted in position 16}  5/0061 {substituted in position 16}
1/004	saturated hydrocarbon group} {the substituent in position 17 alfa being an unsaturated hydrocarbon group}	5/0015	
1/0044 1/0048 1/0051	<ul><li> {Alkenyl derivatives}</li><li> {Alkynyl derivatives}</li><li>. {Estrane derivatives}</li></ul>	5/003	
1/0055 1/0059 1/0062	<ul> <li>• {not substituted in position 17}</li> <li>• {substituted in position 17 by a keto group}</li> <li>• {substituted in position 17 alfa not substituted in</li> </ul>	5/0046	
1/0066	<ul><li>position 17 beta}</li><li>• {substituted in position 17 beta not substituted in position 17 alfa}</li></ul>	5/0069	• • • {by a saturated or unsaturated hydrocarbon group}
1/007 1/0074	<ul><li>. { the substituent being an OH group free esterified or etherified }</li><li> {Esters}</li></ul>	5/0076 5/0084 5/0092	<ul><li> {by an alkyl group}</li><li> {by an alkylene group}</li><li> {by an OH group free esterified or etherified}</li></ul>
2,007	(=====)		

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Section   Sect	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)	21/00	Normal steroids containing carbon, hydrogen, halogen or oxygen having an oxygen- containing hetero ring spiro-condensed with the cyclopenta(a)hydrophenanthrene skeleton
2.000     substituted in position   7 by a keto group    2.1003     (aposition   17)   7.0015     (not substituted in position   16)   2.1008     (aposition   16)   2.1008     (aposition   18)   (aposition   18)   2.1008     (aposition   18)   2.1008     (aposition   18)   2.1008     (aposition   18)   2.1008	7/0005		21/001	
7,0002   1,000   1,				
1,7002     not substituted in position 16   7,70025     substituted in position 17 alfa   2,1006   .   (at position 3   2,1008   .   (at position 3   2,1008   .   (at position 17 alfa   3,1003   .   (by a systemated or unsaturated hydrocarbon group)   .   (at substituted in position 17 alfa   3,1003   .   (by a substituted in position 16   3,1006   .   (by a substituted in position 16   3,1006   .   (by a systemated or unsaturated hydrocarbon group)   .   (by a systemated hydrocarbon group)   .   (cycle hiddle) hydroplenanthrene skeleton group)   .   (cycle hiddle) hydroplenanthren				
17/0025     substituted in position 16     7/0035				
Normal steroids. Le. cyclopenta(a)hydrophenanthrenes.				
Section   Property			21/008	• • {at position 1/}
Comparison of the containing carbon, hydrogen, halogen or oxygen having a carbon, hydrogen, halogen or oxygen, having a partially or totally inverted skeleton of coarbon, hydrogen, halogen or oxygen, having an oxygen containing carbon, hydrogen, halogen or oxygen, shaving an oxygen containing carbon, hydrogen, halogen or oxygen, substituted in position 17 ((for carbon)) groups ((ii) thing) a carbon, hydrogen, halogen or oxygen, abasit net of the cyclopenta(a)) pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, experience or totally inverted skeleton incended in position 17 by a lactone ring  1900 Normal steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, exp. experience or totally inverted skeleton including 18-or 19-substituted by a carbon atom to the skeleton including 18-		group}		
17004     substituted in position 17 alfa    31003   . (the 3 and miterely linked to a ring carbon atom of the cyclopenta(alhydrophenanthrene skeleton)   17005   (by a satutated or unsaturated hydrocarbon group)   31006   (by a satutated or unsaturated hydrocarbon group)   31006   (box satutated in position 21 by an OH group free esterified or etherified)   33000   (and covered by CU21 31003)   (and covered by CU21 31003)		etherified}	_	
7,005	7/004	The state of the s		
31/006     (by a shurrated or unsaturated hydrocarbon group)			31/003	• {the S atom directly linked to a ring carbon atom of
Section   Sect	7/005			the cyclopenta(a)hydrophenanthrene skeleton}
Time spiro-condensed or not condensed with the cyclopenta(a)hydrophenanthrene skeleton (startified or etherified)   33,002   (not condensed)   (pot conden	7/0055			,
33,002   (and condensed)	7/006		33/00	ring spiro-condensed or not condensed with the
sesterified or etherified]  7,007	7/0065	• • {substituted in position 20 by an OH group free		
33/007				
Substituted in position 21   Substituted in position 17 beta by a chain of more than two carbon atoms, e.g. cholane, cholestane, coprostane   41/0005   Substituted in position 17   Substituted or attached by a chain containing carbon, hydrogen, halogen or oxygen, not substituted in position 3   Substituted in position 17   Substituted and substituted in position 17   Substituted substituted by a carbon atom and not being part of an amide group in throgen, halogen or oxygen having an artially or totally inverted skeleton, e.g. retrosteroids, Lisomers   Substituted in position 17   Substituted derivatives, substituted by a carbon atom and not directly boarded to a further carbon atom and not directly boarded to a further carbon atom and not directly boarded to another carbon atom and	7/007	• • • {not substituted in position 17 alfa}	33/005	* *
7008   - (substituted in position 21   70085   . (by an halogen atom]	7/0075		33/007	• • {Cyclic thioketals}
Normal steroids, i.e., cyclopenta(a)hydrophenanthrenes, containing nitrogen	7/008	The state of the s		
7:009   [by only one oxygen atom doubly bound]   7:0095   [carbon in position 21 is part of carboxylic group]   41/000   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   41/0016   41/0018   41/0016		· · · · · · · · · · · · · · · · · · ·		
3/002   Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 13 (17)			containing n	<u>itrogen</u>
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   41/0016   (Oximes)		• • {carbon in position 21 is part of carboxylic	41/00	
halogen or oxygen having a carbon-to-carbon double bond from or to position 17 (20)}  13/000	9/00	Normal steroids containing carbon, hydrogen,	41/0005	• {the nitrogen atom being directly linked to the
so chain of more than two carbon atoms, e.g. cholane, cholestane, coprostane  logolostane, coprostane  logolostane coprostane skeleton, including logolostic lo			41/0011	
South   Sout				
11/00   Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 3   13/00   Normal steroids containing carbon, hydrogen, halogen or oxygen having a carbon-to-carbon double bond from or to position 17 (for carbonyl groups C071 1/00)   13/002   {with double bond in position 13 (17)}   13/007   {with double bond in position 16 (17)   13/007   {with double bond in position 17 (20)}   15/005   {Ereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, Lisomers   15/00   Normal steroids containing carbon, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C071 19/00)   17/005   {Glycosides}   {				
11/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 3  13/00 Normal steroids containing carbon, hydrogen, halogen or oxygen having a carbon-to-carbon double bond in position 17 {(for carbonyl groups CO7J 1/00)}  13/002 . {with double bond in position 13 (17)}  13/005 . {with double bond in position 16 (17)}  13/007 . {with double bond in position 17 (20)}  15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, Lisomers  15/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 . {Glycosides}  19/006 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  1	9/005			
13/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, not substituted in position 3  13/00 Normal steroids containing carbon, hydrogen, halogen or oxygen having a carbon-to-carbon double bond from or to position 17 {(for carbonyl groups C071 1/00)}  13/002 { (with double bond in position 13 (17)}  13/005 { (with double bond in position 16 (17)}  13/007 { (with double bond in position 17 (20)}  15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, L-isomers  15/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 (Glycosides)  19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 (Glycosides)  19/005 (Glycosides)  19/005 (Glycosides)  10/005 (Glycosides)  10/006 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  10/005 (Glycosides)  10/006 (Glycosides)  10/007 (Glycosides)  10/007 (Glycosides)  10/008 (Glycosides)  10/009 (Gradanolide, bufanolide C07J 19/00)  10/008 (Glycosides)  10/009 (Glycosides)  10/009 (Gradanolide, bufanolide C07J 19/00)  10/009 (Glycosides)  10/000 (Gly		•		
halogen or oxygen, not substituted in position 3   { In groups CO7J 41/0038 - CO7J 41/0094 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 {(for carbonyl groups CO7J 1/00)}   13/002   { with double bond in position 13 (17)}   13/007   { with double bond in position 16 (17)}   13/007   { with double bond in position 17 (20)}   41/0038   . { with double bond in position 17 (20)}   41/0038   . { with double bond in position 17 (20)}   41/0038   . { with an androstane skeleton, including 18- or 19-substituted derivatives, 18- nor derivatives and also derivatives where position 17-beta is substituted derivatives where position 17-beta is substituted derivatives and also derivatives where position 17-beta is substituted by a carbon atom not directly bonded to a further carbon atom and not being part of an amide group}   41/004   . { with an estrane or gonane skeleton, including 18- or 19-substituted derivatives where position 17-beta is substituted by a carbon atom and not being part of an amide group}   41/004   . { with an estrane or gonane skeleton, including 18- or 19-substituted derivatives where position 17-beta is substituted by a carbon atom and not being part of an amide group}   41/004   . { with an estrane or gonane skeleton, including 18- or 19-substituted derivatives and derivatives where position 17-beta is substituted by a carbon atom not directly bonded to a further carbon atom and not being part of an amide group}   41/005   . { (flycosides}   41/005   . { (flycosides}   41/005   . { (fle 17-beta position being substituted by an uninterrupted chain of at least three carbon atom which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.	11/00	Normal steroids containing carbon, hydrogen		NOTE
halogen or oxygen having a carbon, hydrogen, halogen or oxygen having a carbon-to-carbon double bond from or to position 17 {(for carbonyl groups C07J 1/00)}  13/002	11/00			
13/005 . {with double bond in position 16 (17)} 13/007 . {with double bond in position 17 (20)} 15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, L-isomers  15/005 . {Retrosteroids (9 beta 10 alfa)} 17/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 . {Glycosides}  19/006 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 . {Glycosides}  19/005 . {Glycosides}  41/005		halogen or oxygen having a carbon-to-carbon double bond from or to position 17 {(for carbonyl groups C07J 1/00)}		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
15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, Lisomers  15/005 • {Retrosteroids (9 beta 10 alfa)}  17/00 Normal steroids containing carbon, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 • {Glycosides}  19/006 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 • {Glycosides}  • **(with an androstane skeleton, including 18- or 19-substituted derivatives, 18-nor derivatives and also derivatives where position 17-beta is substituted by a carbon atom not directly bonded to a further carbon atom and not being part of an amide group}  18-substituted derivatives and derivatives where position 17-beta is substituted by a carbon atom not directly bonded to another carbon atom and not being part of an amide group}  41/005 • {the 17-beta position being substituted by an uninterrupted chain of only two carbon atoms, e.g. pregnane derivatives}  19/005 • {Glycosides}  • **(The Tribute of the position of at least three carbon atoms which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.				groups. J
15/00 Stereochemically pure steroids containing carbon, hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, Lisomers  15/005 (Retrosteroids (9 beta 10 alfa))  17/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 (Glycosides)  19/006 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 (Glycosides)  19/006 (Glycosides)  19/006 (Glycosides)  19/007 (Glycosides)  19/007 (Glycosides)  19/008 (Glycosides)  19/008 (Glycosides)		* * * * * * * * * * * * * * * * * * * *	41/0038	• • { with an androstane skeleton, including 18- or
17/00 Normal steroids (9 beta 10 alfa)}  17/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 (Glycosides)  19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 (Glycosides)  41/0054 (with an estrane or gonane skeleton, including 18-substituted derivatives and derivatives where position 17-beta is substituted by a carbon atom and not being part of an amide group}  41/0055 (the 17-beta position being substituted by an uninterrupted chain of only two carbon atoms, e.g. pregnane derivatives}  41/0055 (the 17-beta position being substituted by an uninterrupted chain of at least three carbon atoms which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.	15/00	hydrogen, halogen or oxygen having a partially or totally inverted skeleton, e.g. retrosteroids, L-		and also derivatives where position 17-beta is substituted by a carbon atom not directly bonded to a further carbon atom and not being part of an
17/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, having an oxygen-containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 (Glycosides)  18-substituted derivatives where position 17-beta is substituted by a carbon atom not directly bonded to another carbon atom and not being part of an amide group}  41/005 (the 17-beta position being substituted by an uninterrupted chain of only two carbon atoms, e.g. pregnane derivatives}  19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 (Glycosides)	15/005		41/0044	T
halogen or oxygen, having an oxygen- containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton (cardanolide, bufanolide C07J 19/00)  17/005 . {Glycosides}  19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 . {Glycosides}  position 17-beta is substituted by a carbon atom not directly bonded to another carbon atom and not being part of an amide group}  (the 17-beta position being substituted by an uninterrupted chain of only two carbon atoms, e.g. pregnane derivatives}  • the 17-beta position being substituted by an uninterrupted chain of at least three carbon atoms which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.			41/0044	18-substituted derivatives and derivatives where
19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/00 (Glycosides)  e.g. pregnane derivatives  (the 17-beta position being substituted by an uninterrupted chain of at least three carbon atoms which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.		halogen or oxygen, having an oxygen- containing hetero ring not condensed with the cyclopenta(a)hydrophenanthrene skeleton	41/005	not directly bonded to another carbon atom and not being part of an amide group}  . • {the 17-beta position being substituted by an
19/00 Normal steroids containing carbon, hydrogen, halogen or oxygen, substituted in position 17 by a lactone ring  19/005 . {Glycosides}  . {the 17-beta position being substituted by an uninterrupted chain of at least three carbon atoms which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.	17/005	• {Glycosides}		The state of the s
lactone ring which may or may not be branched, e.g. cholane 19/005 . {Glycosides} or cholestane derivatives, optionally cyclised, e.g.	19/00		41/0055	
	19/005	lactone ring		which may or may not be branched, e.g. cholane or cholestane derivatives, optionally cyclised, e.g.

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41/0061	• • • {one of the carbon atoms being part of an amide group}	67/00	Steroids in which the cyclopenta(a)hydrophenanthrene skeleton has
41/0066	• • {the 17-beta position being substituted by a carbon atom forming part of an amide group}		been modified by expansion of two rings, each by one atom
41/0072	• • {the A ring of the steroid being aromatic}	CO 100	G( 11 1 1 1 1 A
41/0077	• • {substituted in position 11-beta by a carbon atom, further substituted by a group comprising at least one further carbon atom}	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
41/0083	• • • {substituted in position 11-beta by an optionally substituted phenyl group not further		atom
	condensed with other rings}	71/00	Steroids in which the
41/0088	• • {containing unsubstituted amino radicals}		$cyclopenta (a) hydrophen anthrene\ skeleton$
41/0094	• • {containing nitrile radicals, including thiocyanide		is condensed with a heterocyclic ring (spiro-
	radicals}		condensed heterocyclic rings <u>C07J 21/00</u> , <u>C07J 33/00</u> , <u>C07J 43/00</u> )
43/00	Normal steroids having a nitrogen-containing	71/0005	• {Oxygen-containing hetero ring}
	hetero ring spiro-condensed or not condensed with	71/001	• • {Oxiranes}
10/000	the cyclopenta(a)hydrophenanthrene skeleton	71/0015	• • • {at position 9(11)}
43/003	• {not condensed}	71/0021	{at position 14(15)}
43/006	• {spiro-condensed}	71/0026	• • {cyclic ketals}
51/00	Normal steroids with unmodified	71/0031	• • • {at positions 16, 17}
	cyclopenta(a)hydrophenanthrene skeleton not	71/0036	• {Nitrogen-containing hetero ring}
	provided for in groups <u>C07J 1/00</u> - <u>C07J 43/00</u>	71/0042	• • {Nitrogen only}
53/00	Steroids in which the	71/0047	• • • {at position 2(3)}
33/00	cyclopenta(a)hydrophenanthrene skeleton has	71/0052	• • • {at position 16(17)}
	been modified by condensation with a carbocyclic	71/0057	• • {Nitrogen and oxygen}
	rings or by formation of an additional ring by	71/0063	• • • {at position 2(3)}
	means of a direct link between two ring carbon	71/0068	• • • {at position 16(17)}
	atoms, {including carboxyclic rings fused to the	71/0073	• {Sulfur-containing hetero ring}
	$cyclopenta (a) hydrophen anthrene\ skeleton\ are$	71/0078	• • {containing only sulfur}
	included in this class}	71/0084	• • • {Episulfides}
53/001	• {spiro-linked}	71/0089	<ul> <li>{containing sulfur and oxygen}</li> </ul>
53/002	• {Carbocyclic rings fused}	71/0094	<ul><li>{containing sulfur and nitrogen}</li></ul>
53/004	• • {3 membered carbocyclic rings}	73/00	Steroids in which the
53/005	• • • {in position 12}	73/00	cyclopenta[a]hydrophenanthrene skeleton has
53/007	• • • {in position 6-7}		been modified by substitution of one or two carbon
53/008	{in position 15/16}		atoms by hetero atoms
Nor- or homo steroids		73/001	• {by one hetero atom}
		73/003	• • {by oxygen as hetero atom}
61/00	Steroids in which the	73/005	• • {by nitrogen as hetero atom}
	cyclopenta(a)hydrophenanthrene skeleton has	73/006	• • {by sulfur as hetero atom}
	been modified by contraction of only one ring by	73/008	• {by two hetero atoms}
	one or two atoms		

### No

65/00

01/00	cyclopenta(a)hydrophenanthrene skeleton has been modified by contraction of only one ring by one or two atoms
63/00	Steroids in which the cyclopenta(a)hydrophenanthrene skeleton has been modified by expansion of only one ring by one or two atoms
63/002	• {Expansion of ring A by one atom, e.g. A homo steroids}
63/004	• {Expansion of ring B by one atom, e.g. B homo steroids}
63/006	• {Expansion of ring C by one atom, e.g. C homo steroids}
63/008	• {Expansion of ring D by one atom, e.g. D homo steroids}
63/006	<ul> <li>{Expansion of ring B by one atom, e.g. B homsteroids}</li> <li>{Expansion of ring C by one atom, e.g. C homsteroids}</li> <li>{Expansion of ring D by one atom, e.g. D homsteroids}</li> </ul>

 $cyclopenta (a) hydrophen anthrene\ skeleton\ has$ been modified by contraction of two rings, each by

Steroids in which the

one atom

#### 75/00 Processes for the preparation of steroids in general 75/005

. {Preparation of steroids by cyclization of nonsteroid compounds}

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