This Class 552 is considered to be an integral part of Class 260 (see the Class 260 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 260.

ORGANIC COMPOUNDS (CLASS 532, SUBCLASS 1)

1 .Azides
2 ..With preservative or stabilizer
3 ..Phoshorus attached directly or indirectly to the azide group by nonionic bonding
4 ..Silicon, boron, aluminum or heavy metal containing
5 ..Chalcogen or nitrogen bonded directly to the azide group (e.g., sulfonyl azides, etc.)
6 ..Having -C(=X)-, wherein X is chalcogen, bonded directly to the azide group
7 ...Chalcogen bonded directly to the -C(=X)- group
8 ..Benzene ring bonded directly to the azide group
9 ..Cyclopentanohydrophenanthrene ring system containing
10 ..Acyclic carbon bonded directly to the azide group
11 ...Nitrogen attached indirectly to the azide group by acyclic nonionic bonding (e.g., diazides, etc.)
12 ....Having -C(=X)-, wherein X is chalcogen, attached indirectly to the azide group by acyclic nonionic bonding
100 .Acyclic carbon bonded directly to three benzene rings and to cyano (e.g., triphenylacetonitrile, etc.)
101 .Acyclic carbon bonded directly to three benzene rings or to two benzene rings and a cyclohexadienyl ring, which acyclic carbon may not be bonded to a fourth carbon (e.g., triphenylmethane dyestuffs, etc.)
102 ..With preservative or stabilizer
103 ..Heavy metal or alumium containing
104 ..Nitrogen, sulfur, phosphorus, or peroxy attached directly to the acyclic carbon by nonionic bonding
105 ..The acyclic carbon and an additional carbon are bonded directly to the same oxygen (ethers, esters, etc.)
106 ..One of the rings, or a polycyclo ring system containing one of the rings, is bonded directly to -N=C=O or to -C(=O)OH (wherein H may be replaced by a group IA or IIA light metal, or by substituted or unsubstituted ammonium)
107 ...Chalcogen bonded directly to the ring or ring system (e.g., salicyclic type, hydroxynaphthoic type, etc.)
108 ..One of the rings is part of a polycyclo ring system (e.g., naphthyldiphenylcarbinol, etc.)
109 ..An acyclic alkylene group is bonded directly to nitrogen and to chalcogen, cyano, carbonyl or additional nitrogen (e.g., N-hydroxyalkyl, N cyanoalkyl, N-sulfatoalkyl, aminoalkylamino groups, etc.)
110 ..One of the rings and a benzene ring are bonded directly to the same nitrogen (e.g., triphenylrosaniline, etc.)
111 ..Nitrogen, except as cyano, attached indirectly to a ring by acyclic nonionic bonding (e.g., benzyl rosanilines, etc.)
112 ..Carbon bonded directly to -S(=O)(=O)OH (wherein H may be replaced by a group IA or IIA light metal, or by substituted or unsubstituted ammonium; i.e., sulfonic acids and salts thereof)
113 ..Nitrogen bonded directly to one of the rings (e.g., malachite green, rosophenoline, etc.)

114 ...Nitrogen bonded directly to each of the rings (e.g., rosaniline, crystal violet, etc.)
115 ..Chalcogen bonded directly to one of the rings (e.g., fuchsone, etc.)
200 .Tetracyclo naphthacene configured ring system having at least one double bond between ring members and having oxygen bonded directly to a carbon of an interior ring which carbon is a member of one ring only
201 ..Two oxygens double bonded directly to the interior ring in para positions
202 ..At least six oxygens bonded directly to the tetracyclo ring system
203 ...Nitrogen and carbonyl or cyano bonded directly to the tetracyclo ring system (e.g., tetracycline, etc.)
204 ....Carbon double bonded directly to the tetracyclo ring system (e.g., 6 methylene tetracycline, etc.)
205 ....Plural nitrogens bonded directly to the tetracyclo ring system
206 ....Processes
207 .....Heavy metal or aluminum containing material utilized
208 .Polycyclo ring system containing anthracene configured ring system having at least one double bond between ring members and having oxygen single bonded or any atom double bonded directly at the 9- and 10-positions (e.g., anthraquinones, etc.)
209 ..Phosphorus, selenium, silicon, heavy metal or aluminum containing
210 ..Nitrogen or carbon double bonded directly at the 9- or 10-position
211 ..Sulfur bonded directly to oxygen which is single bonded directly at the 9- or 10-position
212 ..The polycyclo ring system is bonded directly to an additional polycyclo ring system having at least three cyclos (e.g., plural anthracene configured ring systems bonded directly to each other, etc.)
213 ..The polycyclo ring system and an additional polycyclo ring system having at least three cyclos are bonded directly to the same atom (e.g., plural anthracene configured ring systems bonded directly to the same sulfur, etc.)
214 ...The atom is nitrogen (e.g., anthrimides, etc.)
215 ....At least five cyclos in the polycyclo ring system
216 ....The polycyclo ring system is tetracyclic
217 ....Nitrogen, oxygen, sulfur, carbon or halogen bonded directly at beta position of the anthracene configured ring system (i.e., 2-, 3-, 6- or 7 position)
218 ..The polycyclo ring system is attached indirectly by nonionic bonding to an additional polycyclo ring system having at least three cyclos (e.g., plural anthracene ring systems attached indirectly to each other by nonionic bonding, etc.)
219 ...Nitrogen, oxygen, sulfur, carbon or halogen bonded directly at beta position of the anthracene configured ring system (i.e. 2-, 3-, 6- or 7 position)
220 ..The polycyclo ring system contains at least four cyclos
221 ..Sulfur bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
222 ...Nitrogen or additional sulfur bonded directly to the sulfur
223 ...Additional carbon bonded directly to the sulfur

224 ...Carbonyl, nitrogen, oxygen or halogen bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
225 ...Nitrogen bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
226 ....Oxygen, sulfur or halogen bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
227 .....Plural nitrogens, plural oxygens, plural sulfurs, or plural halogens bonded directly at alpha positions
228 ....Additional ring containing
229 .....Containing cyano or containing nitrogen bonded directly to sulfur (e.g., sulfonamide containing, etc.)
230 .....Acyclic carbonyl or thiocarbonyl containing (e.g., thiocarboxamide containing, etc.)
231 ......Oxygen, sulfur or halogen bonded directly to the additional ring
232 .....Oxygen, sulfur, nitro or halogen bonded directly to the additional ring
233 ......Plural additional rings containing
234 ..Sulfur bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
235 ...Nitrogen or halogen bonded directly to the anthracene configured ring system
236 ..Nitrogen bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
237 ...Oxygen, nitrogen or additional carbon bonded directly to the nitrogen
238 ..Nitrogen bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
239 ...Cyano bonded directly to the anthracene configured ring system
240 ...Oxygen bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
241 ....Additional carbon bonded directly to the oxygen
242 .....The additional carbon is part of a ring
243 ...Oxygen bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
244 ....Halogen bonded directly to the anthracene configured ring system
245 ....Carbon bonded directly to the anthracene configured ring system
246 ....Oxygen bonded directly to the nitrogen (e.g., nitro bonded directly at 8 position, etc.)
247 ....Additional carbon bonded directly to the nitrogen
248 .....Cyano, carboxamide, sulfonamide or halogen containing
249 ...Halogen bonded directly to the anthracene configured ring system
250 ....Carbonyl, oxygen or sulfur bonded directly to he nitrogen
251 ...Carbon bonded directly to the anthracene configured ring system
252 ....Nitrogen or halogen bonded directly to the carbon (e.g., carboxamide bonded directly to the anthracene configured ring system, etc.)
253 ...Oxygen or sulfur bonded directly to the nitrogen (e.g., 1- nitroanthraquinone, etc.)
254 ....Plural nitrogens bonded directly at alpha positions (i.e., 1-, 4-, 5- or 8 positions, e.g., 1, 5-dinitroanthraquinones, etc.)
255 ...Additional carbon bonded directly to the nitrogen
256 ....The additional carbon is part of a carbonyl group (i.e., carboxamido bonded directly at alpha position)
257 .....Nitrogen, oxygen, sulfur or halogen bonded directly to an additional ring
258 ....The additional carbon is part of a ring or ring system
259 .....Oxygen, sulfur or halogen bonded directly to the ring or ring system

260 ....Acyclic carbonyl, sulfur or halogen containing
261 ..Oxygen bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
262 ..Oxygen bonded directly at alpha position (i.e., 1-, 4-, 5-, or 8-position)
263 ..Halogen bonded directly at beta position (i.e., 2-, 3-, 6-, or 7-position)
264 ..Halogen bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
265 ..Carbon bonded directly at beta position (i.e., 2-, 3-, 6- or 7-position)
266 ...Nitrogen, halogen or additional oxygen containing
267 ..Carbon bonded directly at alpha position (i.e., 1-, 4-, 5- or 8-position)
268 ..Processes of forming anthraquinone per se or enolic form thereof by reacting an organic acid, aldehyde, anhydride or an indane (e.g., reacting phthalic anhydride, methyl phenylindane, etc.)
269 ..Processes of forming anthraquinone per se or enolic form thereof utilizing heavy metal containing material (e.g., vanadium catalyst utilized, etc.)
270 ...Light metal or nitrogen containing material utilized (e.g., ceric ammonium nitrate catalyst utilized, etc.)
271 .Polycyclo ring system containing anthracene configured ring system having at least one double bond between ring members and having oxygen single bonded or any atom double bonded direct at the 9- or 10-position (e.g., anthrones, anthranois, etc.)
272 ..Phosphorus, selenium, tellurium, or heavy metal containing
273 ..The polycyclo ring system is bonded directly to an additional polycyclo ring system having at least three cyclo (e.g., plural anthracene configured ring systems bonded directly to each other, etc.)
274 ..The polycyclo ring system is attached indirectly by nonionic bonding to an additional polycyclo ring system having a least three cyclos (e.g., plural anthracene configured ring systems bonded directly to the same nitrogen, etc.)
275 ..The polycyclo ring system has at least ten cyclos
276 ..The polycyclo ring system has nine cyclos
277 ...Cyano, nitrogen or sulfur bonded directly to the nonacyclo ring system
278 ....Halogen containing or processes wherein a halogen containing material is utilized
279 ...Oxygen single bonded directly to the nonacyclo ring system
280 ....Halogen or light metal containing or processes wherein a halogen or light metal containing is utilized
281 ...Halogen containing
282 ..The polycyclo ring system has seven or eight cyclos
283 ...Halogen containing
284 ..The polycyclo ring system has five of six cyclos
285 ...Halogen containing
286 ..The polycyclo ring system has four cyclos (e.g., benzanthrones, etc.)
287 ...Cyano, carbonyl, nitrogen or sulfur bonded directly to the tetracyclo ring system
288 ...Halogen or carbon bonded directly to the tetracyclo ring system
289 ..Nitrogen or sulfur bonded directly to the anthracene configured ring system
290 ..Carbon, halogen or plural oxygens bonded directly to the anthracene configured ring system

291 .Cyclohexadiene having atoms double bonded directly at the 1- and 2- positions (e.g., orthoquinones, etc.)
292 ..Polycyclo ring system having the cyclohexadiene as one of the cyclos
293 .Cyclohexadiene having atoms double bonded directly at the 1- and 4- positions (e.g., paraquinones, etc.)
294 ..Phosphorus, heavy metal or aluminum containing
295 ..Polycyclo ring system having the cyclohexadiene as one of the cyclos
296 ...Oxygen double bonded directly at the 1- and 4- positions
297 ....Nitrogen or halogen bonded directly to the polycyclo ring system
298 ....Chalcogen single bonded directly to the polycyclo ring system
299 ....Carbon bonded directly to the polycyclo ring system
300 ...Plural oxygens and plural nitrogens bonded directly to the polycyclo ring system
301 ..Nitrogen double bonded directly at the 1- and 4- positions
302 ..Nitrogen double bonded directly at the 1- or 4- positions
303 ..Carbon double bonded directly at the 1- and 4- positions
304 ..Carbon double bonded directly at the 1- or 4- position
305 ..Sulfur bonded directly at the 2-, 3-, 5- or 6- position
306 ..Nitrogen bonded directly at the 2-, 3-, 5- or 6- position
307 ..Oxygen bonded directly at the 2-, 3-, 5-, or 6- position
308 ..Halogen bonded directly at the 2-, 3-, 5-, or 6- position
309 ..Carbon donded directly at the 2-, 3-, 5- or 6- position
310 ...At least three carbons bonded directly to the cyclohexadiene
500 .Cyclopentanohydrophenanthrene ring system wherein two nonadjacent carbons of the ring system are bonded directly to each other (e.g., 3,5 cyclocholesterols, 3,5-cycloandrostanes, etc.)
501 ..Oxygen bonded directly at the 6-position of the cyclopentanohydrophenanthrene ring system
502 .Cyclopentanohydrophenanthrene ring system containing
503 ..With preservative or stabilizer
504 ..Heavy metal or aluminum containing
505 ..Boron, silicon, selenium or tellurium containing
506 ..Phosphorus attached directly or indirectly to the cyclopentanohydrophenanthrene ring system by nonionic bonding
507 ...The phosphorus is bonded directly at the 21-position or is bonded directly to a chalcogen which is bonded directly at the 21-positon
508 ..Spiro
509 ..Plural cyclopentanohydrophenanthrene ring systems
510 ..The cyclopentanohydrophenanthrene ring system is part of a polycyclo ring system having at least five cyclos
511 ...The additional ring shares the 1,2-positions of the cyclopentanohydrophenanthrene ring system
512 ...The additional ring shares the 5,10- or 5,19-positions of the cyclopentanohydrophenanthrene ring system
513 ...The additional ring shares the 6,7-positions of the cyclopentanohydrophenanthrene ring system
514 ...The additional ring shares the 16,17-positions of the cyclopentanohydrophenanthrene ring system
515 ..Nitrogen bonded directly to the cyclopentanohydrophenanthrene ring system

516 ...The nitrogen is double bonded to the cyclopentanohydrophenanthrene ring system
517 ....The nitrogen is part of a semicarbazone or thiosemicarbazone group
518 ....Additional nitrogen bonded directly to the nitrogen (e.g., hydrazones, etc.)
519 ....Oxygen bonded directly to the nitrogen (e.g., oximes, isonitrosos, etc.)
520 .....The nitrogen is bonded directly at the 3-position
521 ...The nitrogen is bonded directly at the 3-position
522 ...The nitrogen is bonded directly at the 17-position
523 ..Sulfur bonded directly to the cyclopentanohydrophenanthrene ring system
524 ...The sulfur is bonded directly at the 1- or 3-position
525 ...The sulfur is bonded directly at the 16- or 17-position
526 ..Carbon double bonded directly to the cyclopentanohydrophenantrene ring system
527 ...The carbon is double bonded directly at the 2-position
528 ...The carbon is double bonded directly at the 16-position
529 ....And carbon bonded directly at the 17 beta-position is a member of an acyclic chain of two or more uninterrupted carbons
530 ...The carbon is double bonded directly at the 17-position (e.g., fusidic acids, etc.)
531 ....Nitrogen or sulfur containing
532 ....The carbon is a member of an acyclic chain of exactly two carbons (e.g., 3 keto-4,17(20)-pregnadienes, 17-ethylidene-estranes,etc.)
533 .....Plural oxygens bonded directly to the cyclopentanohydrophenanthrene ring system
534 .....And oxygen bonded directly at the 21-position of the compound
535 ..Halogen bonded directly at the 12-position of the cyclopentanohydrophenanthrene ring system
536 ..Halogen bonded directly at the 16-position of the cyclopentanohydrophenanthrene ring system
537 ...Plural halogens bonded directly at the 16-position
538 ...Carbon bonded directly at the 17 beta-position is a member of an acyclic chain of two or more uninterrupted carbons
539 ..Halomethyl bonded directly to the cyclopentanohydrophenanthrene ring system (e.g., 16-trifluoromethyl progesterones, etc.)
540 ..Carbon bonded directly at the 17 beta-position of the cyclopentanohydrophenanthrene ring system is a member of an acyclic chain of six or more uninterrupted carbons (e.g., sterols, etc.)
541 ...Oxygen bonded directly at the 1-, 2-, or 4-position
542 ...Oxygen bonded directly at the 6- or 7-position
543 ...Carbon or halogen bonded directly at the 6- or 7-position
544 ...Exactly one oxygen bonded directly to the cyclopentanohydrophenanthrene ring system (e.g., cholesterols, cholestanols, stigmasterols, etc.)
545 ....Processes of isolating, purifying or recovering from animal, vegetable or fungal sources (e.g., wool fat or grease, lanolin, fish oils, animal tissue, soybean oil, tall oil or pitch, wood products, sugar cane, soap stocks, yeast, molds, etc.)
546 ....Halogen or oxygen bonded directly to the acyclic carbon chain at the 17 beta-position (e.g., 25-hydroxy cholesterols, etc.)

547 ....Unsaturation between the 7- and 8-positions (e.g., ergosterols, 7 dehydrocholesterols, provitamin D, etc.)
548 ..Carbon bonded directly at the 17 beta-position of the cyclopentanohydrophenanthrene ring system is a member of an acyclic chain of five uninterrupted carbons (e.g., choladienes, cholanic acids, etc.) stocks, yeast, molds, etc.)
549 ...Oxygen bonded directly at the 12-position (e.g., cholic acids, desoxycholic acids, dehydrocholic acids, etc.)
550 ....Halogen, nitrogen, or sulfur containing (e.g., glycocholic acids, taurocholic acids, etc.)
551 ...Oxygen bonded directly at the 6- or 7-position (e.g., chenodeoxycholic acids, ursodeoxycholic acids, etc.)
552 ...Exactly one oxygen bonded directly to the cyclopentanohydrophenanthrene ring system (e.g., 3-hydroxycholanic acids, lithocholic acids, etc.)
553 ..Carbon bonded directly at the 17 beta-position of the cyclopentanohydrophenanthrene ring system is a member of an acyclic chain of three or four uninterruped carbons, (e.g., diketobisnorcholenic acids, etc.)
554 ...Halogen or nitrogen containing (e.g., 20-cyano-pregnanes, 21-cyano pregnenes, etc.)
555 ...Exactly one oxygen bonded directly to the cyclopentanohydrophenanthrene ring system (e.g., 3-keto-bisnorcholenic acids, 3-keto-bisnor-cholene-22 als, etc.)
556 ....And oxygen bonded directly at the 20-position of the compound
557 ..Carbon bonded directly at the 17-beta-position of the cyclopentanohydrophenanthrene ring system is a member of an acyclic chain of two uninterrupted carbons (e.g., pregnanes, etc.)
558 ...The A ring is a benzene ring
559 ...Three or more oxygens bonded directly to the cyclopentanohydrophenanthrene ring system
560 ....Oxygen bonded directly at the 1-, 2- or 4-position
561 ....Oxygen bonded directly at the 6-position
562 ....Oxygen bonded directly at the 7-, 8- or 9-position
563 ....Oxygen bonded directly at the 14- or 15-position
564 ....Oxygen bonded directly at the 16-position
565 .....Carbon or halogen bonded directly at the 6- or 7-position
566 .....Oxygen bonded directly at the 21-position (e.g., triamcinolone, etc.)
567 ....Halogen bonded directly at the 2- or 4-position (e.g., 4-bromocortisones, etc.)
568 .....The cyclopentanohydrophenanthrene ring system is fully saturated
569 ....Oxygen bonded directly at the 3-, 11-, and 17-positions
570 .....Oxygen bonded directly at the 21-position
571 ......Carbon bonded directly at the 1-, 2- or 4-position
572 ......Carbon or halogen bonded directly at the 6- or 7-position
573 ....Carbon bonded directly at the 16-position
574 ......Carbon bonded directly at the 16-position (e.g., betamethasones, dexamethasones, etc.)
575 ......Nitrogen or sulfur containing

576 ......Unsaturation between the 1- and 2-positions and the 4- and 5-positions (e.g., prednisones, prednisolones, etc.)
577 ......Unsaturation between the 4- and 5-positions (e.g., cortisones, etc.)
578 ....Additional unsaturation in the cyclopentanohydrophenanthrene ring system
579 ......The cyclopentanohydrophenanthrene ring system is fully saturated
580 .....Carbon or halogen bonded directly at the 6- or 7-position
581 .....Unsaturation between the 4- and 5-positions (e.g., 21-thiol prednisones, 21 thio cortisones, etc.)
582 ...Two oxygens bonded directly to the cyclopentanohydrophenanthrene ring system
583 ....Oxygen bonded directly at the 5-, 6- or 7-position
584 ....Oxygen bonded directly at the 12-position
585 ....Oxygen bonded directly at the 15- or 16-position
586 ....Oxygen bonded directly at the 3- and 11-position
587 .....Oxygen bonded directly at the 21-position
588 ......Unsaturation between the 4- and 5-positions (e.g., aldosterones, corticosterones, etc.)
589 .....Carbon bonded directly at the 16-position
590 .....Unsaturation between the 4- and 5-positions
591 .....The cyclopentanohydrophenanthrene ring system is fully saturated
592 ....Oxygen bonded directly at the 3- and 17-positions
593 .....Oxygen bonded directly at the 21-position
594 ......Carbon or halogen bonded directly at the 6- or 7-position
595 ......Unsaturation between the 4- and 5-positions (e.g., 17-alpha-hydroxy progesterones, etc.)
596 .....Carbon bonded directly at the 16-position
597 .....Carbon or halogen bonded directly at the 6- or 7-position
598 .....Unsaturation between the 4- and 5-positions
599 ...Exactly one oxygen bonded directly to the cyclopentanohydrophenanthrene ring system
600 ....Oxygen bonded directly at the 21-position
601 .....Unsaturation between the 4- and 5-position (e.g., desoxycorticosterones, etc.)
602 ......Additional unsaturation in the cyclopentanohydrophenanthrene ring system
603 ....Carbon or halogen bonded directly at the 1-, 2-, 3-, 4- or 5-position
604 ....Carbon bonded directly at the 16-position (e.g., 16-cyanopregn-4-ene-3, 20 diones, etc.)
605 ....Carbon or halogen bonded directly at the 6- or 7-position
606 ....Unsaturation between the 5- and 6-positions (e.g., pregnenolones, etc.)
607 ....Unsaturation between the 4- and 5-positions (e.g., progesterones, etc.)
608 .....Additional unsaturation in the cyclopentanohydrophenanthrene ring system
609 ....The cyclopentanohydrophenanthrene ring system is fully saturated (e.g., pregnandiols, pregnanolones, etc.)
610 ..Acyclic carbon bonded directly at the 17 beta-position of the cyclopentanohydrophenanthrene ring system (e.g., etiocholanic acids, 17 cyanoetiocholanes, 17-aldehydrostanes, etc.)

611 ...Exactly one oxygen bonded directly to the cyclopentanohydrophenanthrene ring system (e.g., 3-keto-etiocholanic acids, etc.)
612 ..Three or more oxygens bonded directly to the cyclopentanohydrophenanthrene ring system
613 ...Oxygen bonded directly at the 1-position
614 ...Oxygen bonded directly at the 2- or 4-position
615 ...Oxygen bonded directly at the 5-, 6- or 7-position
616 ...Oxygen bonded directly at the 16-position
617 ....The A ring is a benzene ring (e.g., estriols, etc.)
618 ...The A ring is a benzene ring
619 ...Oxygen bonded directly at the 3-, 11- and 17-positions (e.g., 1-androstene 3,11,17-triones, etc.)
620 ....Carbon or halogen bonded directly at the 1, 2- or 4-position
621 ....Unsaturation between the 4- and 5-positions (e.g., adrenosterones, 11 hydroxytestosterones, etc.)
622 .....17 alpha-position substituted (e.g., 11-keto-17 alpha-alkyltestosterones, etc.)
623 ..Two oxygens bonded directly to the cyclopentanohydrophenanthrene ring system
624 ...Oxygen bonded directly at the 16-position
625 ...The A ring is a benzene ring (e.g., estrones, estradiols, etc.)
626 ....Nitrogen or sulfur containing
627 ....Carbon or halogen bonded directly at the 1-, 2- or 4-position
628 ....Carbon or halogen bonded directly at the 6- or 7-position
629 ....Carbon bonded directly at the 11-, 15- or 16-position
630 ....17 alpha-position substituted
631 .....The 17 alpha-position substituent contains acyclic carbon-to-carbon unsaturation
632 ...19-position substituted (e.g., 19-methylene-androstanes, 10-cyanoestranes, etc.)
633 ...Carbon bonded directly at the 10- and 13-positions (e.g., androstenes, etc.)
634 ....Carbon or halogen bonded directly at the 1- or 3-position
635 ....Carbon or halogen bonded directly at the 2- or 4-position
636 ....Unsaturation between the 5- and 6-positions (e.g., dehydroandrosterones, etc.)
637 .....17 alpha-position substituted (e.g., 17 alpha-ethynyl-5-androstene-3 beta, 17 beta-diols, etc.)
638 ....Unsaturation between the 4- and 5-positions (e.g., testosterones, etc.)
639 .....17 alpha-position substituted (e.g., 17 alpha-alkynylandrosta-4, 6-diene 3,17-diols, etc.)
640 .....Additional unsaturation in the cyclopentanohydrophenanthrene ring system
641 ....The cyclopentanohydrophenanthrene ring system is fully saturated (e.g., androstandiols, androsterones, dihydrotestosterones, etc.)
642 ...Carbon bonded directly at the 13-position (e.g., 19-norandrostenes, estradienes, etc.)
643 ....Carbon or halogen bonded directly at the 1-, 2-, 4- or 5-position
644 ....Unsaturation between the 5- and 10-positions
645 .....17 alpha-position substituted (e.g., 17 alpha-ethynyl-17-hydroxy-5(10) estren-3-ones, etc.)

646 ....Unsaturation between the 4- and 5-positions (e.g., 19-nortestosterones, 13 beta-alkyl-4-gonene-3,17-diones etc.)
647 .....Carbon or halogen bonded directly at the 6- or 7-position
648 .....17 alpha-position substituted (e.g., 17 alpha-ethynyl-19 nortestosterones, etc.)
649 ....The cyclopentanohydrophenanthrene ring system is fully saturated (e.g., 17 alpha-alkyl-17 beta-hydroxyestran-3-ones, etc.)
650 ..Oxygen bonded directly at the 16- or 17-position of the cyclopentanohydrophenanthrene ring system
651 ...Carbon or halogen bonded directly at the 1- or 3-position
652 ...Carbon or halogen bonded directly at the 2-, 4- or 5-position
653 .9,10-Seco-cyclopentanohydrophenanthrene ring system or 9,10-seco cyclopentanohydrophenanthrene ring system having a bond between the 3- and 5-positions (e.g., vitamin D compounds, cholecalciferols, activated 7-dehydrocholesterols, dihydrotachysterols, 3,5 cyclovitamin D compounds, etc.)

FOREIGN ART COLLECTIONS

FOR 000 **CLASS-RELATED FOREIGN DOCUMENTS**