

SECTION C — CHEMISTRY; METALLURGY

C07 ORGANIC CHEMISTRY

C07F ACYCLIC, CARBOCYCLIC, OR HETEROCYCLIC COMPOUNDS CONTAINING ELEMENTS OTHER THAN CARBON, HYDROGEN, HALOGEN, OXYGEN, NITROGEN, SULFUR, SELENIUM, OR TELLURIUM (metal-containing porphyrins C07D 487/22)

Note(s)

- 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.
- Attention is drawn to Note (6) following the title of class C07.
- Attention is drawn to Note (3) after the title of section C, which Note indicates to which version of the periodic table of chemical elements the IPC refers.
- Therapeutic activity of compounds is further classified in subclass A61P.
- In this subclass, organic acid salts, alcoholates, phenates, chelates or mercaptides are classified as the parent compounds.

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| 1/00 | Compounds containing elements of the 1st Group of the Periodic System | 7/18 | • • • | Compounds having one or more C—Si linkages as well as one or more C—O—Si linkages |
| 1/02 | • Lithium compounds | 7/20 | • • • | Purification; Separation |
| 1/04 | • Sodium compounds | 7/21 | • • | Cyclic compounds having at least one ring containing silicon but no carbon in the ring [2] |
| 1/06 | • Potassium compounds | 7/22 | • | Tin compounds |
| 1/08 | • Copper compounds | 7/24 | • | Lead compounds |
| 1/10 | • Silver compounds | 7/26 | • • | Tetra-alkyl lead compounds |
| 1/12 | • Gold compounds | 7/28 | • | Titanium compounds |
| | | 7/30 | • | Germanium compounds [2] |
| 3/00 | Compounds containing elements of the 2nd Group of the Periodic System | 9/00 | Compounds containing elements of the 5th Group of the Periodic System | |
| 3/02 | • Magnesium compounds | 9/02 | • | Phosphorus compounds [2] |
| 3/04 | • Calcium compounds | 9/04 | • • | Reaction products of phosphorus sulfur compounds with hydrocarbons |
| 3/06 | • Zinc compounds | 9/06 | • • | without P—C bonds |
| 3/08 | • Cadmium compounds | 9/08 | • • • | Esters of oxyacids of phosphorus |
| 3/10 | • Mercury compounds | 9/09 | • • • • | Esters of phosphoric acids [2] |
| 3/12 | • • Aromatic substances containing mercury | 9/10 | • • • • | Phosphatides, e.g. lecithin |
| 3/14 | • • Heterocyclic substances containing mercury | 9/11 | • • • • | with hydroxyalkyl compounds without further substituents on alkyl [2] |
| 5/00 | Compounds containing elements of the 3rd Group of the Periodic System | 9/113 | • • • • • | with unsaturated acyclic alcohols [2] |
| 5/02 | • Boron compounds | 9/117 | • • • • • | with cycloaliphatic alcohols [2] |
| 5/04 | • • Esters of boric acids | 9/12 | • • • • • | with hydroxyaryl compounds [2] |
| 5/05 | • • Cyclic compounds having at least one ring containing boron but no carbon in the ring [2] | 9/14 | • • • • • | containing P-halide groups [2] |
| 5/06 | • Aluminium compounds | 9/141 | • • • • • | Esters of phosphorous acids [2] |
| 7/00 | Compounds containing elements of the 4th Group of the Periodic System | 9/142 | • • • • • | with hydroxyalkyl compounds without further substituents on alkyl [2] |
| 7/02 | • Silicon compounds | 9/143 | • • • • • | with unsaturated acyclic alcohols [2] |
| 7/04 | • • Esters of silicic acids | 9/144 | • • • • • | with cycloaliphatic alcohols [2] |
| 7/06 | • • • with hydroxyaryl compounds | 9/145 | • • • • • | with hydroxyaryl compounds [2] |
| 7/07 | • • • Cyclic esters [2] | 9/146 | • • • • • | containing P-halide groups [2] |
| 7/08 | • • • Compounds having one or more C—Si linkages | 9/16 | • • • | Esters of thiophosphoric acids or thiophosphorous acids |
| 7/10 | • • • containing nitrogen | 9/165 | • • • | Esters of thiophosphoric acids [2] |
| 7/12 | • • • Organo silicon halides | 9/17 | • • • | with hydroxyalkyl compounds without further substituents on alkyl [2] |
| 7/14 | • • • • Preparation thereof from halogenated silanes and hydrocarbons | 9/173 | • • • | with unsaturated acyclic alcohols [2] |
| 7/16 | • • • • Preparation thereof from silicon and halogenated hydrocarbons | 9/177 | • • • | with cycloaliphatic alcohols [2] |

- 9/18 with hydroxyaryl compounds [2]
- 9/20 containing P-halide groups [2]
- 9/201 Esters of thiophosphorous acids [2]
- 9/202 with hydroxyalkyl compounds without further substituents on alkyl [2]
- 9/203 with unsaturated acyclic alcohols [2]
- 9/204 with cycloaliphatic alcohols [2]
- 9/205 with hydroxyaryl compounds [2]
- 9/206 containing P-halide groups [2]
- 9/22 . . . Amides of acids of phosphorus
- 9/24 . . . Esteramides
- 9/26 containing P-halide groups
- 9/28 . . with one or more P—C bonds
- 9/30 . . . Phosphinic acids ($R_2=P(:O)OH$); Thiophosphinic acids
- 9/32 Esters thereof
- 9/34 Halides thereof
- 9/36 Amides thereof
- 9/38 . . . Phosphonic acids ($R-P(:O)(OH)_2$); Thiophosphonic acids
- 9/40 Esters thereof
- 9/42 Halides thereof
- 9/44 Amides thereof
- 9/46 . . . Phosphinous acids ($R_2=P-OH$); Thiophosphinous acids
- 9/48 . . . Phosphonous acids ($R-P(OH)_2$); Thiophosphonous acids
- 9/50 . . . Organo-phosphines
- 9/52 Halophosphines
- 9/53 Organo-phosphine oxides; Organo-phosphine sulfides [2]
- 9/535 . . . Organo-phosphoranes [3]
- 9/54 . . . Quaternary phosphonium compounds
- 9/547 . . Heterocyclic compounds, e.g. containing phosphorus as a ring hetero atom [5]
- 9/553 . . . having one nitrogen atom as the only ring hetero atom [5]
- 9/564 Three-membered rings [5]
- 9/568 Four-membered rings [5]
- 9/572 Five-membered rings [5]
- 9/576 Six-membered rings [5]
- 9/58 Pyridine rings [5]
- 9/59 Hydrogenated pyridine rings [5]
- 9/60 Quinoline or hydrogenated quinoline ring systems [5]
- 9/62 Isoquinoline or hydrogenated isoquinoline ring systems [5]
- 9/64 Acridine or hydrogenated acridine ring systems [5]
- 9/645 . . . having two nitrogen atoms as the only ring hetero atoms [5]
- 9/6503 Five-membered rings [5]
- 9/6506 having the nitrogen atoms in positions 1 and 3 [5]
- 9/6509 Six-membered rings [5]
- 9/6512 having the nitrogen atoms in positions 1 and 3 [5]
- 9/6515 . . . having three nitrogen atoms as the only ring hetero atoms [5]
- 9/6518 Five-membered rings [5]
- 9/6521 Six-membered rings [5]
- 9/6524 . . . having four or more nitrogen atoms as the only ring hetero atoms [5]
- 9/6527 . . . having nitrogen and oxygen atoms as the only ring hetero atoms [5]
- 9/653 Five-membered rings [5]
- 9/6533 Six-membered rings [5]
- 9/6536 . . . having nitrogen and sulfur atoms with or without oxygen atoms, as the only ring hetero atoms [5]
- 9/6539 Five-membered rings [5]
- 9/6541 condensed with carbocyclic rings or ring systems [5]
- 9/6544 Six-membered rings [5]
- 9/6547 condensed with carbocyclic rings or ring systems [5]
- 9/655 . . . having oxygen atoms, with or without sulfur, selenium, or tellurium atoms, as the only ring hetero atoms [5]
- 9/6553 . . . having sulfur atoms, with or without selenium or tellurium atoms, as the only ring hetero atoms [5]
- 9/6558 . . . containing at least two different or differently substituted hetero rings neither condensed among themselves nor condensed with a common carbocyclic ring or ring system [5]
- 9/6561 . . . containing systems of two or more relevant hetero rings condensed among themselves or condensed with a common carbocyclic ring or ring system, with or without other non-condensed hetero rings [5]
- 9/6564 . . . having phosphorus atoms, with or without nitrogen, oxygen, sulfur, selenium or tellurium atoms, as ring hetero atoms [5]
- 9/6568 having phosphorus atoms as the only ring hetero atoms [5]
- 9/6571 having phosphorus and oxygen atoms as the only ring hetero atoms [5]
- 9/6574 Esters of oxyacids of phosphorus [5]
- 9/6578 having phosphorus and sulfur atoms with or without oxygen atoms, as ring hetero atoms [5]
- 9/6581 having phosphorus and nitrogen atoms with or without oxygen or sulfur atoms, as ring hetero atoms [5]
- 9/6584 having one phosphorus atom as ring hetero atom [5]
- 9/6587 having two phosphorus atoms as ring hetero atoms [5]
- 9/659 having three phosphorus atoms as ring hetero atoms [5]
- 9/6593 1,3,5-Triaza-2,4,6-triphosphorines [5]
- 9/6596 . . . having atoms other than oxygen, sulfur, selenium, tellurium, nitrogen or phosphorus as ring hetero atoms [5]
- 9/66 . . Arsenic compounds
- 9/68 . . without As—C bonds
- 9/70 . . Organo-arsenic compounds
- 9/72 . . Aliphatic compounds
- 9/74 . . Aromatic compounds
- 9/76 . . . containing hydroxyl groups
- 9/78 . . . containing amino groups
- 9/80 . . Heterocyclic compounds
- 9/82 Arsenic compounds containing one or more pyridine rings
- 9/84 Arsenic compounds containing one or more quinoline ring systems
- 9/86 Arsenic compounds containing one or more isoquinoline ring systems
- 9/88 Arsenic compounds containing one or more acridine ring systems

- 9/90 • Antimony compounds
- 9/92 • • Aromatic compounds
- 9/94 • Bismuth compounds
- 11/00 Compounds containing elements of the 6th Group of the Periodic System**
- 13/00 Compounds containing elements of the 7th Group of the Periodic System**
- 15/00 Compounds containing elements of the 8th Group of the Periodic System**
- 15/02 • Iron compounds
- 15/03 • • Sideramines; The corresponding desferri compounds
- 15/04 • Nickel compounds
- 15/06 • Cobalt compounds
- 17/00 Metallocenes [2]**
- 17/02 • of metals of the iron group or the platinum group [2]
- 19/00 Metal compounds according to more than one of main groups C07F 1/00-C07F 17/00 [5]**