

## SECTION C — CHEMISTRY; METALLURGY

### C01 INORGANIC CHEMISTRY

**C01G COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR C01F** (metal hydrides C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; thiosulfates, dithionites, polythionates C01B 17/64; compounds containing selenium or tellurium C01B 19/00; binary compounds of nitrogen with metals C01B 21/06; azides C01B 21/08; metal amides C01B 21/092; nitrites C01B 21/50; phosphides C01B 25/08; salts of oxyacids of phosphorus C01B 25/16; carbides C01B 31/30; compounds containing silicon C01B 33/00; compounds containing boron C01B 35/00; compounds having molecular sieve properties but not having base-exchange properties C01B 37/00; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, C01B 39/00; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C21B, C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

#### Note(s)

1. Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
2. Therapeutic activity of compounds is further classified in subclass A61P.

#### Subclass index

GENERAL METHODS OF PREPARATION.....	1/00
METALLIC COMPOUNDS, IN ALPHABETICAL ORDER OF THE SYMBOL FOR THE METAL	
Ag Silver.....	5/00
As Arsenic.....	28/00
Au Gold.....	7/00
Bi Bismuth.....	29/00
Cd Cadmium.....	11/00
Co Cobalt.....	51/00
Cr Chromium.....	37/00
Cu Copper.....	3/00
Fe Iron.....	49/00
Ga Gallium.....	15/00
Ge Germanium.....	17/00
Hf Hafnium.....	27/00
Hg Mercury.....	13/00
In Indium.....	15/00
Ir Iridium.....	55/00
Mn Manganese.....	45/00
Mo Molybdenum.....	39/00
Nb Niobium.....	33/00
Ni Nickel.....	53/00
Os Osmium.....	55/00
Pb Lead.....	21/00
Pd Palladium.....	55/00
Pt Platinum.....	55/00
Re Rhenium.....	47/00
Rh Rhodium.....	55/00
Ru Ruthenium.....	55/00
Sb Antimony.....	30/00
Sn Tin.....	19/00
Ta Tantalum.....	35/00
Ti Titanium.....	23/00
Tl Thallium.....	15/00
U Uranium.....	43/00
V Vanadium.....	31/00
W Tungsten.....	41/00
Zn Zinc.....	9/00
Zr Zirconium.....	25/00
COMPOUNDS OF TRANSURANIC ELEMENTS.....	56/00

<b>1/00</b>	<b>Methods of preparing compounds of metals not covered by subclasses C01B, C01C, C01D, C01F, in general</b> (electrolytic production of inorganic compounds C25B 1/00) [2]	21/16	• Halides
1/02	• Oxides	21/18	• Nitrates
1/04	• Carbonyls	21/20	• Sulfates
1/06	• Halides	21/21	• Sulfides [3]
1/08	• Nitrates	21/22	• Plumbates; Plumbites
1/10	• Sulfates		
1/12	• Sulfides	<b>23/00</b>	<b>Compounds of titanium</b>
1/14	• Sulfites	23/02	• Halides of titanium
<b>3/00</b>	<b>Compounds of copper</b>	23/04	• Oxides; Hydroxides [3]
3/02	• Oxides; Hydroxides	23/047	• • Titanium dioxide [3]
3/04	• Halides	23/053	• • • Producing by wet processes, e.g. hydrolysing titanium salts [3]
3/05	• • Chlorides [3]	23/07	• • • Producing by vapour phase processes, e.g. halide oxidation [3]
3/06	• • Oxychlorides	23/08	• • • Drying; Calcining [3]
3/08	• Nitrates	<b>25/00</b>	<b>Compounds of zirconium</b>
3/10	• Sulfates	25/02	• Oxides
3/12	• Sulfides	25/04	• Halides
3/14	• Complexes with ammonia	25/06	• Sulfates
<b>5/00</b>	<b>Compounds of silver</b>	<b>27/00</b>	<b>Compounds of hafnium</b>
5/02	• Halides [3]	27/02	• Oxides
<b>7/00</b>	<b>Compounds of gold</b>	27/04	• Halides
<b>9/00</b>	<b>Compounds of zinc</b>	27/06	• Sulfates
9/02	• Oxides; Hydroxides [3]	<b>28/00</b>	<b>Compounds of arsenic [3]</b>
9/03	• • Processes of production using dry methods, e.g. vapour phase processes [3]	28/02	• Arsenates; Arsenites [3]
9/04	• Halides	<b>29/00</b>	<b>Compounds of bismuth</b>
9/06	• Sulfates	<b>30/00</b>	<b>Compounds of antimony [3]</b>
9/08	• Sulfides	30/02	• Antimonates; Antimonites [3]
<b>11/00</b>	<b>Compounds of cadmium</b>	<b>31/00</b>	<b>Compounds of vanadium</b>
11/02	• Sulfides [3]	31/02	• Oxides [3]
<b>13/00</b>	<b>Compounds of mercury</b>	31/04	• Halides [3]
13/02	• Oxides	<b>33/00</b>	<b>Compounds of niobium</b>
13/04	• Halides	<b>35/00</b>	<b>Compounds of tantalum</b>
<b>15/00</b>	<b>Compounds of gallium, indium, or thallium</b>	35/02	• Halides [3]
<b>17/00</b>	<b>Compounds of germanium</b>	<b>37/00</b>	<b>Compounds of chromium</b>
17/02	• Germanium dioxide	37/02	• Oxides or hydrates thereof
17/04	• Halides of germanium	37/027	• • Chromium dioxide [3]
<b>19/00</b>	<b>Compounds of tin</b>	37/033	• • Chromium trioxide; Chromic acid [3]
19/02	• Oxides	37/04	• Chromium halides
19/04	• Halides	37/06	• • Chromylhalides
19/06	• • Stannous chloride	37/08	• Chromium sulfates
19/08	• • Stannic chloride	37/10	• • Chrome alum
<b>21/00</b>	<b>Compounds of lead</b>	37/14	• Chromates; Bichromates
21/02	• Oxides	<b>39/00</b>	<b>Compounds of molybdenum</b>
21/04	• • Lead suboxide (Pb <sub>2</sub> O)	39/02	• Oxides; Hydroxides [3]
21/06	• • Lead monoxide (PbO)	39/04	• Halides [3]
21/08	• • Lead dioxide (PbO <sub>2</sub> )	39/06	• Sulfides [3]
21/10	• • Red lead (Pb <sub>3</sub> O <sub>4</sub> )	<b>41/00</b>	<b>Compounds of tungsten</b>
21/12	• Hydroxides	41/02	• Oxides; Hydroxides [3]
21/14	• Carbonates	41/04	• Halides [3]
		<b>43/00</b>	<b>Compounds of uranium</b>

43/01 • Oxides; Hydroxides [3]  
 43/025 • • Uranium dioxide [3]  
 43/04 • Halides of uranium  
 43/06 • • Fluorides  
 43/08 • • Chlorides  
 43/10 • • Bromides  
 43/12 • • Iodides

**45/00 Compounds of manganese**

45/02 • Oxides; Hydroxides  
 45/04 • Carbonyls  
 45/06 • Halides  
 45/08 • Nitrates  
 45/10 • Sulfates  
 45/12 • Manganates; Permanganates

**47/00 Compounds of rhenium**

**49/00 Compounds of iron**

49/02 • Oxides; Hydroxides  
 49/04 • • Ferrous oxide (FeO)  
 49/06 • • Ferric oxide (Fe<sub>2</sub>O<sub>3</sub>)  
 49/08 • • Ferroso-ferric oxide (Fe<sub>3</sub>O<sub>4</sub>)  
 49/10 • Halides  
 49/12 • Sulfides  
 49/14 • Sulfates

49/16 • Carbonyls

**51/00 Compounds of cobalt**

51/02 • Carbonyls  
 51/04 • Oxides; Hydroxides  
 51/06 • Carbonates  
 51/08 • Halides  
 51/10 • Sulfates  
 51/12 • Complexes with ammonia

**53/00 Compounds of nickel**

53/02 • Carbonyls  
 53/04 • Oxides; Hydroxides  
 53/06 • Carbonates  
 53/08 • Halides  
 53/09 • • Chlorides [3]  
 53/10 • Sulfates  
 53/11 • Sulfides [3]  
 53/12 • Complexes with ammonia

**55/00 Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum**

**56/00 Compounds of transuranic elements**

**99/00 Subject matter not provided for in other groups of this subclass [2010.01]**