

## 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) [7, 2006.01]

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) [1, 2, 2006.01]	21/14	• Carbonates [1, 2006.01]
1/02	• Oxides [1, 2006.01]	21/16	• Halides [1, 2006.01]
1/04	• Carbonyls [1, 2006.01]	21/18	• Nitrates [1, 2006.01]
1/06	• Halides [1, 2006.01]	21/20	• Sulfates [1, 2006.01]
1/08	• Nitrates [1, 2006.01]	21/21	• Sulfides [3, 2006.01]
1/10	• Sulfates [1, 2006.01]	21/22	• Plumbates; Plumbites [1, 2006.01]
1/12	• Sulfides [1, 2006.01]		
1/14	• Sulfites [1, 2006.01]		
<b>3/00</b>	<b>Compounds of copper [1, 2006.01]</b>	<b>23/00</b>	<b>Compounds of titanium [1, 2006.01]</b>
3/02	• Oxides; Hydroxides [1, 2006.01]	23/02	• Halides of titanium [1, 2006.01]
3/04	• Halides [1, 2006.01]	23/04	• Oxides; Hydroxides [1, 3, 2006.01]
3/05	• • Chlorides [3, 2006.01]	23/047	• • Titanium dioxide [3, 2006.01]
3/06	• • Oxychlorides [1, 2006.01]	23/053	• • • Producing by wet processes, e.g. hydrolysing titanium salts [3, 2006.01]
3/08	• Nitrates [1, 2006.01]	23/07	• • • Producing by vapour phase processes, e.g. halide oxidation [3, 2006.01]
3/10	• Sulfates [1, 2006.01]	23/08	• • • Drying; Calcining [1, 3, 2006.01]
3/12	• Sulfides [1, 2006.01]		
3/14	• Complexes with ammonia [1, 2006.01]	<b>25/00</b>	<b>Compounds of zirconium [1, 2006.01]</b>
<b>5/00</b>	<b>Compounds of silver [1, 2006.01]</b>	25/02	• Oxides [1, 2006.01]
5/02	• Halides [3, 2006.01]	25/04	• Halides [1, 2006.01]
<b>7/00</b>	<b>Compounds of gold [1, 2006.01]</b>	25/06	• Sulfates [1, 2006.01]
<b>9/00</b>	<b>Compounds of zinc [1, 2006.01]</b>	<b>27/00</b>	<b>Compounds of hafnium [1, 2006.01]</b>
9/02	• Oxides; Hydroxides [1, 3, 2006.01]	27/02	• Oxides [1, 2006.01]
9/03	• • Processes of production using dry methods, e.g. vapour phase processes [3, 2006.01]	27/04	• Halides [1, 2006.01]
9/04	• Halides [1, 2006.01]	27/06	• Sulfates [1, 2006.01]
9/06	• Sulfates [1, 2006.01]		
9/08	• Sulfides [1, 2006.01]	<b>28/00</b>	<b>Compounds of arsenic [3, 2006.01]</b>
<b>11/00</b>	<b>Compounds of cadmium [1, 2006.01]</b>	28/02	• Arsenates; Arsenites [3, 2006.01]
11/02	• Sulfides [3, 2006.01]	<b>29/00</b>	<b>Compounds of bismuth [1, 2006.01]</b>
<b>13/00</b>	<b>Compounds of mercury [1, 2006.01]</b>	<b>30/00</b>	<b>Compounds of antimony [3, 2006.01]</b>
13/02	• Oxides [1, 2006.01]	30/02	• Antimonates; Antimonites [3, 2006.01]
13/04	• Halides [1, 2006.01]	<b>31/00</b>	<b>Compounds of vanadium [1, 2006.01]</b>
<b>15/00</b>	<b>Compounds of gallium, indium, or thallium [1, 2006.01]</b>	31/02	• Oxides [3, 2006.01]
<b>17/00</b>	<b>Compounds of germanium [1, 2006.01]</b>	31/04	• Halides [3, 2006.01]
17/02	• Germanium dioxide [1, 2006.01]	<b>33/00</b>	<b>Compounds of niobium [1, 2006.01]</b>
17/04	• Halides of germanium [1, 2006.01]	<b>35/00</b>	<b>Compounds of tantalum [1, 2006.01]</b>
<b>19/00</b>	<b>Compounds of tin [1, 2006.01]</b>	35/02	• Halides [3, 2006.01]
19/02	• Oxides [1, 2006.01]	<b>37/00</b>	<b>Compounds of chromium [1, 2006.01]</b>
19/04	• Halides [1, 2006.01]	37/02	• Oxides or hydrates thereof [1, 2006.01]
19/06	• • Stannous chloride [1, 2006.01]	37/027	• • Chromium dioxide [3, 2006.01]
19/08	• • Stannic chloride [1, 2006.01]	37/033	• • Chromium trioxide; Chromic acid [3, 2006.01]
<b>21/00</b>	<b>Compounds of lead [1, 2006.01]</b>	37/04	• Chromium halides [1, 2006.01]
21/02	• Oxides [1, 2006.01]	37/06	• • Chromylhalides [1, 2006.01]
21/04	• • Lead suboxide (Pb <sub>2</sub> O) [1, 2006.01]	37/08	• Chromium sulfates [1, 2006.01]
21/06	• • Lead monoxide (PbO) [1, 2006.01]	37/10	• • Chrome alum [1, 2006.01]
21/08	• • Lead dioxide (PbO <sub>2</sub> ) [1, 2006.01]	37/14	• Chromates; Bichromates [1, 2006.01]
21/10	• • Red lead (Pb <sub>3</sub> O <sub>4</sub> ) [1, 2006.01]	<b>39/00</b>	<b>Compounds of molybdenum [1, 2006.01]</b>
21/12	• Hydroxides [1, 2006.01]	39/02	• Oxides; Hydroxides [3, 2006.01]
		39/04	• Halides [3, 2006.01]
		39/06	• Sulfides [3, 2006.01]
		<b>41/00</b>	<b>Compounds of tungsten [1, 2006.01]</b>
		41/02	• Oxides; Hydroxides [3, 2006.01]
		41/04	• Halides [3, 2006.01]

<b>43/00</b>	<b>Compounds of uranium [1, 2006.01]</b>		
43/01	• Oxides; Hydroxides [3, 2006.01]		
43/025	• • Uranium dioxide [3, 2006.01]		
43/04	• Halides of uranium [1, 2006.01]		
43/06	• • Fluorides [1, 2006.01]		
43/08	• • Chlorides [1, 2006.01]		
43/10	• • Bromides [1, 2006.01]		
43/12	• • Iodides [1, 2006.01]		
<b>45/00</b>	<b>Compounds of manganese [1, 2006.01]</b>		
45/02	• Oxides; Hydroxides [1, 2006.01]		
45/04	• Carbonyls [1, 2006.01]		
45/06	• Halides [1, 2006.01]		
45/08	• Nitrates [1, 2006.01]		
45/10	• Sulfates [1, 2006.01]		
45/12	• Manganates; Permanganates [1, 2006.01]		
<b>47/00</b>	<b>Compounds of rhenium [1, 2006.01]</b>		
<b>49/00</b>	<b>Compounds of iron [1, 2006.01]</b>		
49/02	• Oxides; Hydroxides [1, 2006.01]		
49/04	• • Ferrous oxide (FeO) [1, 2006.01]		
49/06	• • Ferric oxide (Fe <sub>2</sub> O <sub>3</sub> ) [1, 2006.01]		
49/08	• • Ferroso-ferric oxide (Fe <sub>3</sub> O <sub>4</sub> ) [1, 2006.01]		
49/10	• Halides [1, 2006.01]		
49/12	• Sulfides [1, 2006.01]		
49/14	• Sulfates [1, 2006.01]		
49/16	• Carbonyls [1, 2006.01]		
<b>51/00</b>	<b>Compounds of cobalt [1, 2006.01]</b>		
51/02	• Carbonyls [1, 2006.01]		
51/04	• Oxides; Hydroxides [1, 2006.01]		
51/06	• Carbonates [1, 2006.01]		
51/08	• Halides [1, 2006.01]		
51/10	• Sulfates [1, 2006.01]		
51/12	• Complexes with ammonia [1, 2006.01]		
<b>53/00</b>	<b>Compounds of nickel [1, 2006.01]</b>		
53/02	• Carbonyls [1, 2006.01]		
53/04	• Oxides; Hydroxides [1, 2006.01]		
53/06	• Carbonates [1, 2006.01]		
53/08	• Halides [1, 2006.01]		
53/09	• • Chlorides [3, 2006.01]		
53/10	• Sulfates [1, 2006.01]		
53/11	• Sulfides [3, 2006.01]		
53/12	• Complexes with ammonia [1, 2006.01]		
<b>55/00</b>	<b>Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum [1, 2006.01]</b>		
<b>56/00</b>	<b>Compounds of transuranic elements [1, 2006.01]</b>		
<b>99/00</b>	<b>Subject matter not provided for in other groups of this subclass [2010.01]</b>		