

# CPC COOPERATIVE PATENT CLASSIFICATION

**C01G** **COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES [C01D](#) OR [C01F](#)** (metal hydrides {monoborane, diborane or addition complexes thereof} [C01B 6/00](#); salts of oxyacids of halogens [C01B 11/00](#); peroxides, salts or 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](#); {compounds containing nitrogen, other non-metals and metal [C01B 21/082](#)}; metal amides [C01B 21/092](#); nitrites [C01B 21/50](#); {compounds of noble gases [C01B 23/0005](#)}; 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 cyanamide [C01C 3/16](#); thiocyanates [C01C 3/20](#))

<b>1/00</b>	<b>Methods of preparing compounds of metals not covered by subclasses <a href="#">C01B</a>, <a href="#">C01C</a>, <a href="#">C01D</a>, or <a href="#">C01F</a>, in general</b> (electrolytic production of inorganic compounds <a href="#">C25B 1/00</a> )	9/006	. {Compounds containing, besides zinc, two or more other elements, with the exception of oxygen or hydrogen}
1/02	. Oxides	9/02	. Oxides; Hydroxides
1/04	. Carbonyls	9/03	. . Processes of production using dry methods, e.g. vapour phase processes
1/06	. Halides	9/04	. Halides
1/08	. Nitrates	9/06	. Sulfates
1/10	. Sulfates	9/08	. Sulfides
1/12	. Sulfides		
1/14	. Sulfites	<b>11/00</b>	<b>Compounds of cadmium</b>
<b>3/00</b>	<b>Compounds of copper</b>	11/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
3/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	11/006	. {Compounds containing, besides cadmium, two or more other elements, with the exception of oxygen or hydrogen}
3/006	. {Compounds containing, besides copper, two or more other elements, with the exception of oxygen or hydrogen}	11/02	. Sulfides
3/02	. Oxides; Hydroxides	<b>13/00</b>	<b>Compounds of mercury</b>
3/04	. Halides	13/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
3/05	. . Chlorides	13/006	. {Compounds containing, besides mercury, two or more other elements, with the exception of oxygen or hydrogen}
3/06	. . Oxychlorides	13/02	. Oxides
3/08	. Nitrates	13/04	. Halides
3/10	. Sulfates	<b>15/00</b>	<b>Compounds of gallium, indium or thallium</b>
3/12	. Sulfides	15/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
3/14	. Complexes with ammonia	15/006	. {Compounds containing, besides gallium, indium, or thallium, two or more other elements, with the exception of oxygen or hydrogen}
<b>5/00</b>	<b>Compounds of silver</b>	<b>17/00</b>	<b>Compounds of germanium</b>
5/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	17/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
5/006	. {Compounds containing, besides silver, two or more other elements, with the exception of oxygen or hydrogen}	17/006	. {Compounds containing, besides germanium, two or more other elements, with the exception of oxygen or hydrogen}
5/02	. Halides	17/02	. Germanium dioxide
<b>7/00</b>	<b>Compounds of gold</b>	17/04	. Halides of germanium
7/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	<b>19/00</b>	<b>Compounds of tin</b>
7/006	. {Compounds containing, besides gold, two or more other elements, with the exception of oxygen or hydrogen}	19/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
<b>9/00</b>	<b>Compounds of zinc</b>		
9/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}		

19/006	. {Compounds containing, besides tin, two or more other elements, with the exception of oxygen or hydrogen}	23/08	. . . Drying; Calcining; {After treatment of titanium oxide}
19/02	. Oxides	<b>25/00</b>	<b>Compounds of zirconium</b>
19/04	. Halides	25/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
19/06	. . Stannous chloride	25/006	. {Compounds containing, besides zirconium, two or more other elements, with the exception of oxygen or hydrogen}
19/08	. . Stannic chloride	25/02	. Oxides
<b>21/00</b>	<b>Compounds of lead</b>	25/04	. Halides
21/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	25/06	. Sulfates
21/006	. {Compounds containing, besides lead, two or more other elements, with the exception of oxygen or hydrogen}	<b>27/00</b>	<b>Compounds of hafnium</b>
21/02	. Oxides	27/003	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
21/04	. . Lead suboxide (Pb <sub>2</sub> O)	27/006	. {Compounds containing, besides hafnium, two or more other elements, with the exception of oxygen or hydrogen}
21/06	. . Lead monoxide (PbO)	27/02	. Oxides
21/08	. . Lead dioxide (PbO <sub>2</sub> )	27/04	. Halides
21/10	. . Red lead (Pb <sub>3</sub> O <sub>4</sub> )	27/06	. Sulfates
21/12	. Hydroxides	<b>28/00</b>	<b>Compounds of arsenic</b>
21/14	. Carbonates	28/001	. {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange}
21/16	. Halides	28/002	. {Compounds containing, besides arsenic, two or more other elements, with the exception of oxygen or hydrogen ( <a href="#">C01G 28/001</a> takes precedence)}
21/18	. Nitrates	28/004	. . {containing halogen}
21/20	. Sulfates	28/005	. {Oxides; Hydroxides; Oxyacids ( <a href="#">C01G 28/001</a> takes precedence)}
21/21	. Sulfides	28/007	. {Halides ( <a href="#">C01G 28/001</a> takes precedence)}
21/22	. Plumbates; Plumbites	28/008	. {Sulfides ( <a href="#">C01G 28/001</a> takes precedence)}
<b>23/00</b>	<b>Compounds of titanium</b> {(preparation of Ti-compounds from ores or scraps <a href="#">C22B 34/12</a> )}	28/02	. Arsenates; Arsenites {( <a href="#">C01G 28/001</a> takes precedence)}
23/001	. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}	28/023	. . {of ammonium, alkali or alkaline-earth metals or magnesium}
23/002	. {Compounds containing, besides titanium, two or more other elements, with the exception of oxygen or hydrogen ( <a href="#">C01G 23/001</a> takes precedence)}	28/026	. . {containing at least two metals}
23/003	. {Titanates, e.g. titanates of two or more metals other than titanium ( <a href="#">C01G 23/001</a> takes precedence)}	<b>29/00</b>	<b>Compounds of bismuth</b>
23/005	. . {Alkali titanates}	29/003	. {Preparations involving a liquid-liquid extraction, an adsorption or an ion-exchange}
23/006	. . {Alkaline earth titanates}	29/006	. {Compounds containing, besides bismuth, two or more other elements, with the exception of oxygen or hydrogen}
23/007	. {Titanium sulfides ( <a href="#">C01G 23/001</a> takes precedence)}	<b>30/00</b>	<b>Compounds of antimony</b>
23/008	. {Titanium- and titanyl sulfate ( <a href="#">C01G 23/001</a> takes precedence)}	30/001	. {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange}
23/02	. Halides of titanium	30/002	. {Compounds containing, besides antimony, two or more other elements, with the exception of oxygen or hydrogen ( <a href="#">C01G 30/001</a> takes precedence)}
23/022	. . {Titanium tetrachloride}	30/003	. . {containing halogen}
23/024	. . . {Purification of tetrachloride}	30/004	. {Oxides; Hydroxides; Oxyacids ( <a href="#">C01G 30/001</a> takes precedence)}
23/026	. . {Titanium trichloride}	30/005	. . {Oxides}
23/028	. . {Titanium fluoride}	30/006	. {Halides ( <a href="#">C01G 30/001</a> takes precedence)}
23/04	. Oxides; Hydroxides	30/007	. . {of binary type SbX <sub>3</sub> or SbX <sub>5</sub> with X representing a halogen, or mixed of the type SbX <sub>3</sub> X' <sub>2</sub> with X, X' representing different halogens}
23/043	. . {Titanium sub-oxides}	30/008	. {Sulfides ( <a href="#">C01G 30/001</a> takes precedence)}
23/047	. . Titanium dioxide	30/02	. Antimonates; Antimonites {( <a href="#">C01G 30/001</a> takes precedence)}
23/0475	. . . {Purification}		
23/053	. . . Producing by wet processes, e.g. hydrolysing titanium salts		
23/0532	. . . . {by hydrolysing sulfate-containing salts}		
23/0534	. . . . {in the presence of seeds}		
23/0536	. . . . {by hydrolysing chloride-containing salts}		
23/0538	. . . . {in the presence of seeds}		
23/07	. . . Producing by vapour phase processes, e.g. halide oxidation		
23/075	. . . . {Evacuation and cooling of the gaseous suspension containing the oxide; Desacidification and elimination of gases occluded in the separated oxide}		

- 30/023 . . {of ammonium, alkali or alkaline-earth metals or magnesium}
- 30/026 . . {containing at least two metals}
- 31/00 Compounds of vanadium**
- 31/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 31/006 . {Compounds containing, besides vanadium, two or more other elements, with the exception of oxygen or hydrogen}
- 31/02 . Oxides
- 31/04 . Halides
- 33/00 Compounds of niobium**
- 33/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 33/006 . {Compounds containing, besides niobium, two or more other elements, with the exception of oxygen or hydrogen}
- 35/00 Compounds of tantalum**
- 35/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 35/006 . {Compounds containing, besides tantalum, two or more other elements, with the exception of oxygen or hydrogen}
- 35/02 . Halides
- 37/00 Compounds of chromium**
- 37/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 37/006 . {Compounds containing, besides chromium, two or more other elements, with the exception of oxygen or hydrogen}
- 37/02 . Oxides or hydrates thereof
- 37/027 . . Chromium dioxide
- 37/033 . . Chromium trioxide; Chromic acid
- 37/04 . Chromium halides
- 37/06 . . Chromylhalides
- 37/08 . Chromium sulfates
- 37/10 . . Chrome alum
- 37/14 . Chromates; Bichromates
- 39/00 Compounds of molybdenum**
- 39/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 39/006 . {Compounds containing, besides molybdenum, two or more other elements, with the exception of oxygen or hydrogen}
- 39/02 . Oxides; Hydroxides
- 39/04 . Halides
- 39/06 . Sulfides
- 41/00 Compounds of tungsten**
- 41/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 41/006 . {Compounds containing, besides tungsten, two or more other elements, with the exception of oxygen or hydrogen}
- 41/02 . Oxides; Hydroxides
- 41/04 . Halides
- 43/00 Compounds of uranium**
- 43/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 43/006 . {Compounds containing, besides uranium, two or more other elements, with the exception of oxygen or hydrogen}
- 43/01 . Oxides; Hydroxides
- 43/025 . . Uranium dioxide
- 43/04 . Halides of uranium
- 43/06 . . Fluorides
- 43/063 . . . {Hexafluoride (UF<sub>6</sub>)}
- 43/066 . . . . {Preparation}
- 43/08 . . Chlorides
- 43/10 . . Bromides
- 43/12 . . Iodides
- 45/00 Compounds of manganese**
- 45/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 45/006 . {Compounds containing, besides manganese, two or more other elements, with the exception of oxygen or hydrogen ([manganates](#), [manganites](#) or [permanganates C01G 45/12](#))}
- 45/02 . Oxides; Hydroxides
- 45/04 . Carbonyls
- 45/06 . Halides
- 45/08 . Nitrates
- 45/10 . Sulfates
- 45/12 . Manganates {manganites or} permanganates
- 45/1207 . . {Permanganates ([MnO]<sub>4</sub><sup>-</sup>) or manganates ([MnO<sub>4</sub>]<sup>2-</sup>)}
- 45/1214 . . . {containing alkali metals}
- 45/1221 . . {Manganates or manganites with a manganese oxidation state of Mn(III), Mn(IV) or mixtures thereof}
- 45/1228 . . . {of the type [MnO<sub>2</sub>]<sub>n</sub><sup>-</sup>, e.g. LiMnO<sub>2</sub>, Li[MxMn<sub>1-x</sub>]O<sub>2</sub>}
- 45/1235 . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sub>2</sub><sup>-</sup>, e.g. Li<sub>2</sub>Mn<sub>2</sub>O<sub>4</sub>, Li<sub>2</sub>[MxMn<sub>2-x</sub>]O<sub>4</sub>}
- 45/1242 . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sup>-</sup>, e.g. LiMn<sub>2</sub>O<sub>4</sub>, Li[MxMn<sub>2-x</sub>]O<sub>4</sub>}
- 45/125 . . . {of the type [MnO<sub>3</sub>]<sub>n</sub><sup>-</sup>, e.g. Li<sub>2</sub>MnO<sub>3</sub>, Li<sub>2</sub>[MxMn<sub>1-x</sub>]O<sub>3</sub>}, (La,Sr)MnO<sub>3</sub>}
- 45/1257 . . . . {containing lithium, e.g. Li<sub>2</sub>MnO<sub>3</sub>, Li<sub>2</sub>[MxMn<sub>1-x</sub>]O<sub>3</sub>}
- 45/1264 . . . . {containing rare earth, e.g. La<sub>1-x</sub>CaxMnO<sub>3</sub>, LaMnO<sub>3</sub>}
- 45/1271 . . . {of the type [Mn<sub>2</sub>O<sub>8</sub>]<sub>n</sub><sup>-</sup>, e.g. (LaSr<sub>3</sub>)Mn<sub>2</sub>O<sub>8</sub>}
- 45/1278 . . . {of the type [Mn<sub>2</sub>O<sub>7</sub>]<sub>n</sub><sup>-</sup>, e.g. (Sr<sub>2</sub>-xNdx)Mn<sub>2</sub>O<sub>7</sub>, Ti<sub>2</sub>Mn<sub>2</sub>O<sub>7</sub>}
- 45/1285 . . . {of the type [Mn<sub>2</sub>O<sub>5</sub>]<sub>n</sub><sup>-</sup>}
- 45/1292 . . . {of the type [Mn<sub>5</sub>O<sub>12</sub>]<sub>n</sub><sup>-</sup>}
- 47/00 Compounds of rhenium**
- 47/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 47/006 . {Compounds containing, besides rhenium, two or more other elements, with the exception of oxygen or hydrogen}
- 49/00 Compounds of iron**
- 49/0009 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 49/0018 . {Mixed oxides or hydroxides, e.g. ferrites ([C01G 49/0009 takes precedence](#))}
- 49/0027 . . {containing one alkali metal}
- 49/0036 . . {containing one alkaline earth metal, magnesium or lead}

- 49/0045 . . {containing aluminium}
- 49/0054 . . {containing one rare earth metal, yttrium or scandium}
- 49/0063 . . {containing zinc}
- 49/0072 . . {containing manganese}
- 49/0081 . . {containing iron in unusual valence state (IV, V, VI), e.g. ferrates}
- 49/009 . {Compounds containing, besides iron, two or more other elements, with the exception of oxygen or hydrogen}
- 49/02 . Oxides; Hydroxides {(C01G 49/0018 takes precedence)}
- 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 {(C01G 49/0018 takes precedence)}
- 49/12 . Sulfides {(C01G 49/0018 takes precedence)}
- 49/14 . Sulfates {(C01G 49/0018 takes precedence)}
- 49/16 . Carbonyls {(C01G 49/0018 takes precedence)}

### 51/00 Compounds of cobalt

- 51/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 51/006 . {Compounds containing, besides cobalt, two or more other elements, with the exception of oxygen or hydrogen (cobaltates C01G 51/40)}
- 51/02 . Carbonyls
- 51/04 . Oxides; Hydroxides
- 51/06 . Carbonates
- 51/08 . Halides
- 51/085 . . {Chlorides}
- 51/10 . Sulfates
- 51/12 . Complexes with ammonia
- 51/30 . {Sulfides}
- 51/40 . {Cobaltates}
- 51/42 . . {containing alkali metals, e.g. LiCoO<sub>2</sub>}
- 51/44 . . . {containing manganese}
- 51/50 . . . . {of the type [MnO<sub>2</sub>]<sub>n</sub>-, e.g. Li(Co<sub>x</sub>Mn<sub>1-x</sub>)O<sub>2</sub>, Li(MyCo<sub>x</sub>Mn<sub>1-x-y</sub>)O<sub>2</sub>}
- 51/52 . . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sub>2</sub>-, e.g. Li<sub>2</sub>(Co<sub>x</sub>Mn<sub>2-x</sub>)O<sub>4</sub>, Li<sub>2</sub>(MyCo<sub>x</sub>Mn<sub>2-x-y</sub>)O<sub>4</sub>}
- 51/54 . . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sub>n</sub>-, e.g. Li(Co<sub>x</sub>Mn<sub>2-x</sub>)O<sub>4</sub>, Li(MyCo<sub>x</sub>Mn<sub>2-x-y</sub>)O<sub>4</sub>}
- 51/56 . . . . {of the type [MnO<sub>3</sub>]<sub>2</sub>-, e.g. Li<sub>2</sub>[Co<sub>x</sub>Mn<sub>1-x</sub>O<sub>3</sub>], Li<sub>2</sub>[MyCo<sub>x</sub>Mn<sub>1-x-y</sub>O<sub>3</sub>]}
- 51/58 . . . . {of the type [Mn<sub>2</sub>O<sub>8</sub>]<sub>n</sub>-}
- 51/60 . . . . {of the type [Mn<sub>2</sub>O<sub>7</sub>]<sub>n</sub>-}
- 51/62 . . . . {of the type [Mn<sub>2</sub>O<sub>5</sub>]<sub>n</sub>-}
- 51/64 . . . . {of the type [Mn<sub>5</sub>O<sub>12</sub>]<sub>n</sub>-}
- 51/66 . . {containing alkaline earth metals, e.g. SrCoO<sub>3</sub>}
- 51/68 . . . {containing rare earth, e.g. La<sub>0.3</sub>Sr<sub>0.7</sub>CoO<sub>3</sub>}
- 51/70 . . {containing rare earth, e.g. LaCoO<sub>3</sub> (C01G 51/68 takes precedence)}

### 53/00 Compounds of nickel

- 53/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 53/006 . {Compounds containing, besides nickel, two or more other elements, with the exception of oxygen or hydrogen (nickelates C01G 53/40)}
- 53/02 . Carbonyls
- 53/04 . Oxides; Hydroxides
- 53/06 . Carbonates

- 53/08 . Halides
- 53/09 . . Chlorides
- 53/10 . Sulfates
- 53/11 . Sulfides
- 53/12 . Complexes with ammonia
- 53/40 . {Nickelates}

### WARNING

Groups C01G 53/40 - C01G 53/70 are not complete pending a reorganisation, see also C01G 53/006 and C01G 53/00

- 53/42 . . {containing alkali metals, e.g. LiNiO<sub>2</sub>}
- 53/44 . . . {containing manganese}
- 53/50 . . . . {of the type [MnO<sub>2</sub>]<sub>n</sub>-, e.g. Li(Ni<sub>x</sub>Mn<sub>1-x</sub>)O<sub>2</sub>, Li(MyNi<sub>x</sub>Mn<sub>1-x-y</sub>)O<sub>2</sub>}
- 53/52 . . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sub>2</sub>-, e.g. Li<sub>2</sub>(Ni<sub>x</sub>Mn<sub>2-x</sub>)O<sub>4</sub>, Li<sub>2</sub>(MyNi<sub>x</sub>Mn<sub>2-x-y</sub>)O<sub>4</sub>}
- 53/54 . . . . {of the type [Mn<sub>2</sub>O<sub>4</sub>]<sub>n</sub>-, e.g. Li(Ni<sub>x</sub>Mn<sub>2-x</sub>)O<sub>4</sub>, Li(MyNi<sub>x</sub>Mn<sub>2-x-y</sub>)O<sub>4</sub>}
- 53/56 . . . . {of the type [MnO<sub>3</sub>]<sub>2</sub>-, e.g. Li<sub>2</sub>[Ni<sub>x</sub>Mn<sub>1-x</sub>O<sub>3</sub>], Li<sub>2</sub>[MyNi<sub>x</sub>Mn<sub>1-x-y</sub>O<sub>3</sub>]}
- 53/58 . . . . {of the type [Mn<sub>2</sub>O<sub>8</sub>]<sub>n</sub>-}
- 53/60 . . . . {of the type [Mn<sub>2</sub>O<sub>7</sub>]<sub>n</sub>-}
- 53/62 . . . . {of the type [Mn<sub>2</sub>O<sub>5</sub>]<sub>n</sub>-}
- 53/64 . . . . {of the type [Mn<sub>5</sub>O<sub>12</sub>]<sub>n</sub>-}
- 53/66 . . {containing alkaline earth metals, e.g. SrNiO<sub>3</sub>, SrNiO<sub>2</sub>}
- 53/68 . . . {containing rare earth, e.g. La<sub>1.62</sub>Sr<sub>0.38</sub>NiO<sub>4</sub>}
- 53/70 . . {containing rare earth, e.g. LaNiO<sub>3</sub> (C01G 53/68 takes precedence)}

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

- 55/001 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 55/002 . {Compounds containing, besides ruthenium, rhodium, palladium, osmium, iridium, or platinum, two or more other elements, with the exception of oxygen or hydrogen (C01G 55/007 takes precedence)}
- 55/004 . {Oxides; Hydroxides}
- 55/005 . {Halides}
- 55/007 . {Compounds containing at least one carbonyl group}
- 55/008 . . {Carbonyls}

### 56/00 Compounds of transuranic elements

- 56/001 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 56/002 . . {by adsorption or by ion-exchange on a solid support}
- 56/003 . {Compounds comprising, besides transuranic elements, two or more other elements, with the exception of oxygen or hydrogen (C01G 56/001 takes precedence)}
- 56/004 . {Compounds of plutonium (C01G 56/001 takes precedence)}
- 56/005 . . {Oxides; Hydroxides}
- 56/006 . . {Halides}
- 56/007 . {Compounds of transuranic elements (C01G 56/001 and C01G 56/004 take precedence)}
- 56/008 . . {Compounds of neptunium}

## C01G

- 56/009 . . {Compounds of americium}
- 99/00 Subject matter not provided for in other groups of this subclass**
- 99/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- 99/006 . {Compounds containing, besides a metal not provided for elsewhere in this subclass, two or more other elements other than oxygen or hydrogen ([C01G 99/003](#) takes precedence)}