

ECLA EUROPEAN CLASSIFICATION

C01G

COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES C01D OR C01F

(metal hydrides [N: monoborane, diborane or addition complexes thereof] [C01B6/00](#); salts of oxyacids of halogens [C01B11/00](#); peroxides, salts or peroxyacids [C01B15/00](#); thiosulfates, dithionites, polythionates [C01B17/64](#); compounds containing selenium, or tellurium [C01B19/00](#); binary compounds of nitrogen with metals [C01B21/06](#); azides [C01B21/08](#); [N: compounds containing nitrogen, other non-metals and metal [C01B21/082](#)]; metal amides [C01B21/092](#); nitrites [C01B21/50](#); [N: compounds of noble gases [C01B23/00B](#)]; phosphides [C01B25/08](#); salts of oxyacids of phosphorus [C01B25/16](#); carbides [C01B31/30](#); compounds containing silicon [C01B33/00](#); compounds containing boron [C01B35/00](#); compounds having molecular sieve properties but not having base-exchange properties [C01B37/00](#); compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, [C01B39/00](#); cyanides [C01C3/08](#); salts of cyanamide [C01C3/16](#); thiocyanates [C01C3/20](#)) [[C9602](#)]

[N: **WARNING**
[C2011.12]

Groups [C01G51/30](#) to [C01G51/70](#) and [C01G53/40](#) to [C01G53/70](#) do not correspond to former or current IPC-groups.

The concordance ECLA : IPC is as follows:

- C01G 51/30 - 51/70 : [C01G51/00](#)
- C01G 53/40 - 53/70 : [C01G53/00](#)

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C01G1/00

Methods of preparing compounds of metals not covered by subclasses [C01B](#), [C01C](#), [C01D](#), or [C01E](#), in general (electrolytic production of inorganic compounds [C25B1/00](#))

- C01G1/02 . Oxides
- C01G1/04 . Carbonyls
- C01G1/06 . Halides
- C01G1/08 . Nitrates
- C01G1/10 . Sulfates
- C01G1/12 . Sulfides
- C01G1/14 . Sulfites

C01G3/00

Compounds of copper

- C01G3/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G3/00D . [N: Compounds containing, besides copper, two or more other elements, with the

exception of oxygen or hydrogen]

- C01G3/02 . Oxides; Hydroxides
- C01G3/04 . Halides
- C01G3/05 . . Chlorides
- C01G3/06 . . Oxychlorides
- C01G3/08 . Nitrates
- C01G3/10 . Sulfates
- C01G3/12 . Sulfides
- C01G3/14 . Complexes with ammonia

- C01G5/00** **Compounds of silver**
- C01G5/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G5/00D . [N: Compounds containing, besides silver, two or more other elements, with the exception of oxygen or hydrogen]
- C01G5/02 . Halides

- C01G7/00** **Compounds of gold**
- C01G7/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G7/00D . [N: Compounds containing, besides gold, two or more other elements, with the exception of oxygen or hydrogen]

- C01G9/00** **Compounds of zinc**
- C01G9/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G9/00D . [N: Compounds containing, besides zinc, two or more other elements, with the exception of oxygen or hydrogen]
- C01G9/02 . Oxides; Hydroxides
- C01G9/03 . . Processes of production using dry methods, e.g. vapour phase processes
- C01G9/04 . Halides
- C01G9/06 . Sulfates
- C01G9/08 . Sulfides

- C01G11/00** **Compounds of cadmium**

- C01G11/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G11/00D . [N: Compounds containing, besides cadmium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G11/02 . Sulfides
- C01G13/00 Compounds of mercury**
- C01G13/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G13/00D . [N: Compounds containing, besides mercury, two or more other elements, with the exception of oxygen or hydrogen]
- C01G13/02 . Oxides
- C01G13/04 . Halides
- C01G15/00 Compounds of gallium, indium or thallium**
- C01G15/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G15/00D . [N: Compounds containing, besides gallium, indium, or thallium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G17/00 Compounds of germanium**
- C01G17/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G17/00D . [N: Compounds containing, besides germanium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G17/02 . Germanium dioxide
- C01G17/04 . Halides of germanium
- C01G19/00 Compounds of tin**
- C01G19/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G19/00D . [N: Compounds containing, besides tin, two or more other elements, with the exception of oxygen or hydrogen]
- C01G19/02 . Oxides
- C01G19/04 . Halides
- C01G19/06 . . Stannous chloride
- C01G19/08 . . Stannic chloride

- C01G21/00** **Compounds of lead**
- C01G21/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G21/00D . [N: Compounds containing, besides lead, two or more other elements, with the exception of oxygen or hydrogen]
- C01G21/02 . Oxides
- C01G21/04 . . Lead suboxide (Pb₂O)
- C01G21/06 . . Lead monoxide (PbO)
- C01G21/08 . . Lead dioxide (PbO₂)
- C01G21/10 . . Red lead (Pb₃O₄)
- C01G21/12 . Hydroxides
- C01G21/14 . Carbonates
- C01G21/16 . Halides
- C01G21/18 . Nitrates
- C01G21/20 . Sulfates
- C01G21/21 . Sulfides
- C01G21/22 . Plumbates; Plumbites
- C01G23/00** **Compounds of titanium** [N: (preparation of Ti-compounds from ores or scraps [C22B34/12](#))]
- C01G23/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G23/00D . [N: Compounds containing, besides titanium, two or more other elements, with the exception of oxygen or hydrogen ([C01G23/00B](#) takes precedence)]
- C01G23/00F . [N: Titanates, e.g. titanates of two or more metals other than titanium ([C01G23/00B](#) takes precedence)]
- C01G23/00F2 . . [N: Alkali titanates]
- C01G23/00F4 . . [N: Alkaline earth titanates]
- C01G23/00H . [N: Titanium sulfides ([C01G23/00B](#) takes precedence)]
- C01G23/00K . [N: Titanium- and titanyl sulfate ([C01G23/00B](#) takes precedence)]
- C01G23/02 . Halides of titanium
- C01G23/02B . . [N: Titanium tetrachloride]
- C01G23/02B4 . . . [N: Purification of tetrachloride]
- C01G23/02D . . [N: Titanium trichloride]

- C01G23/02F . . [N: Titanium fluoride]
- C01G23/04 . Oxides; Hydroxides
- C01G23/04B . . [N: Titanium sub-oxides]
- C01G23/047 . . Titanium dioxide
- C01G23/047D . . . [N: Purification]
- C01G23/053 . . . Producing by wet processes, e.g. hydrolysing titanium salts
- C01G23/053B [N: by hydrolysing sulfate-containing salts]
- C01G23/053B2 [N: in the presence of seeds]
- C01G23/053D [N: by hydrolysing chloride-containing salts]
- C01G23/053D2 [N: in the presence of seeds]
- C01G23/07 . . . Producing by vapour phase processes, e.g. halide oxidation
- C01G23/07B [N: Evacuation and cooling of the gaseous suspension containing the oxide; Desacidification and elimination of gases occluded in the separated oxide]
- C01G23/08 . . . Drying; Calcining; [N: After treatment of titanium oxide]

C01G25/00 Compounds of zirconium

- C01G25/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G25/00D . [N: Compounds containing, besides zirconium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G25/02 . Oxides
- C01G25/04 . Halides
- C01G25/06 . Sulfates

C01G27/00 Compounds of hafnium

- C01G27/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G27/00D . [N: Compounds containing, besides hafnium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G27/02 . Oxides
- C01G27/04 . Halides
- C01G27/06 . Sulfates

C01G28/00 Compounds of arsenic

- C01G28/00B . [N: Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange]
- C01G28/00D . [N: Compounds containing, besides arsenic, two or more other elements, with the

- exception of oxygen or hydrogen ([C01G28/00B](#) takes precedence) [C9508]
- [C01G28/00D2](#) . . [N: containing halogen]
- [C01G28/00F](#) . [N: Oxides; Hydroxides; Oxyacids ([C01G28/00B](#) takes precedence)] [C9508]
- [C01G28/00K](#) . [N: Halides ([C01G28/00B](#) takes precedence)] [C9508]
- [C01G28/00M](#) . [N: Sulfides ([C01G28/00B](#) takes precedence)] [C9508]
- [C01G28/02](#) . Arsenates; Arsenites [N: ([C01G28/00B](#) takes precedence)] [C9508]
- [C01G28/02B](#) . . [N: of ammonium, alkali or alkaline-earth metals or magnesium]
- [C01G28/02D](#) . . [N: containing at least two metals]
- [C01G29/00](#) Compounds of bismuth**
- [C01G29/00B](#) . [N: Preparations involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- [C01G29/00D](#) . [N: Compounds containing, besides bismuth, two or more other elements, with the exception of oxygen or hydrogen]
- [C01G30/00](#) Compounds of antimony**
- [C01G30/00B](#) . [N: Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange]
- [C01G30/00D](#) . [N: Compounds containing, besides antimony, two or more other elements, with the exception of oxygen or hydrogen ([C01G30/00B](#) takes precedence)] [C9508]
- [C01G30/00D2](#) . . [N: containing halogen]
- [C01G30/00F](#) . [N: Oxides; Hydroxides; Oxyacids ([C01G30/00B](#) takes precedence)] [C9508]
- [C01G30/00F2](#) . . [N: Oxides]
- [C01G30/00K](#) . [N: Halides ([C01G30/00B](#) takes precedence)] [C9508]
- [C01G30/00K2](#) . . [N: of binary type SbX_3 or SbX_5 with X representing a halogen, or mixed of the type $SbX_3X'_2$ with X, X' representing different halogens]
- [C01G30/00M](#) . [N: Sulfides ([C01G30/00B](#) takes precedence)] [C9508]
- [C01G30/02](#) . Antimonates; Antimonites [N: ([C01G30/00B](#) takes precedence)] [C9508]
- [C01G30/02B](#) . . [N: of ammonium, alkali or alkaline-earth metals or magnesium]
- [C01G30/02D](#) . . [N: containing at least two metals]
- [C01G31/00](#) Compounds of vanadium**
- [C01G31/00B](#) . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- [C01G31/00D](#) . [N: Compounds containing, besides vanadium, two or more other elements, with the exception of oxygen or hydrogen]

- C01G31/02 . Oxides
- C01G31/04 . Halides
- C01G33/00 **Compounda of niobium****
- C01G33/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G33/00D . [N: Compounds containing, besides niobium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G35/00 **Compounds of tantalum****
- C01G35/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G35/00D . [N: Compounds containing, besides tantalum, two or more other elements, with the exception of oxygen or hydrogen]
- C01G35/02 . Halides
- C01G37/00 **Compounds of chromium****
- C01G37/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G37/00D . [N: Compounds containing, besides chromium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G37/02 . Oxides or hydrates thereof
- C01G37/027 . . Chromium dioxide
- C01G37/033 . . Chromium trioxide; Chromic acid
- C01G37/04 . Chromium halides
- C01G37/06 . . Chromylhalides
- C01G37/08 . Chromium sulfates
- C01G37/10 . . Chrome alum
- C01G37/14 . Chromates; Bichromates
- C01G39/00 **Compounds of molybdenum****
- C01G39/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G39/00D . [N: Compounds containing, besides molybdenum, two or more other elements, with the exception of oxygen or hydrogen]
- C01G39/02 . Oxides; Hydroxides

- C01G39/04 . Halides
- C01G39/06 . Sulfides
- C01G41/00 Compounds of tungsten**
- C01G41/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G41/00D . [N: Compounds containing, besides tungsten, two or more other elements, with the exception of oxygen or hydrogen]
- C01G41/02 . Oxides; Hydroxides
- C01G41/04 . Halides
- C01G43/00 Compounds of uranium**
- C01G43/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G43/00D . [N: Compounds containing, besides uranium, two or more other elements, with the exception of oxygen or hydrogen]
- C01G43/01 . Oxides; Hydroxides
- C01G43/025 . . Uranium dioxide
- C01G43/04 . Halides of uranium
- C01G43/06 . . Fluorides
- C01G43/06B . . . [N: Hexafluoride (UF₆)]
- C01G43/06B2 [N: Preparation]
- C01G43/08 . . Chlorides
- C01G43/10 . . Bromides
- C01G43/12 . . Iodides
- C01G45/00 Compounds of manganese**
- C01G45/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G45/00D . [N: Compounds containing, besides manganese, two or more other elements, with the exception of oxygen or hydrogen (**manganates, manganites or permanganates** [C01G45/12](#))]
- C01G45/02 . Oxides; Hydroxides
- C01G45/04 . Carbonyls
- C01G45/06 . Halides
- C01G45/08 . Nitrates

- C01G45/10 . Sulfates
- C01G45/12 . Manganates [N: manganites or] permanganates
- C01G45/12A . . [N: Permanganates ([MnO₄]⁻) or manganates ([MnO₄]²⁻)] [N1111]
- C01G45/12A2 . . . [N: containing alkali metals] [N1111]
- C01G45/12C . . [N: Manganates or manganites with a manganese oxidation state of Mn(III), Mn(IV) or mixtures thereof] [N1111]
- C01G45/12C2 . . . [N: of the type [MnO₂]ⁿ⁻, e.g. LiMnO₂, Li[MxMn_{1-x}O₂] [N1111] [C1203]
- C01G45/12C4 . . . [N: of the type [Mn₂O₄]²⁻, e.g. Li₂Mn₂O₄, Li₂[MxMn_{2-x}O₄] [N1111]
- C01G45/12C6 . . . [N: of the type [Mn₂O₄]⁻, e.g. LiMn₂O₄, Li[MxMn_{2-x}O₄] [N1111]
- C01G45/12C8 . . . [N: of the type[MnO₃]ⁿ⁻, e.g. Li₂MnO₃, Li₂[MxMn_{1-x}O₃], (La,Sr)MnO₃] [N1111]
- C01G45/12C8A [N: containing lithium, e.g. Li₂MnO₃, Li₂[MxMn_{1-x}O₃] [N1111]
- C01G45/12C8C [N: containing rare earth, e.g. La_{1-x}CaxMnO₃, LaMnO₃] [N1111]
- C01G45/12C10 . . . [N: of the type [Mn₂O₈]ⁿ⁻, e.g. (LaSr₃)Mn₂O₈] [N1111] [C1112]
- C01G45/12C12 . . . [N: of the type [Mn₂O₇]ⁿ⁻, e.g. (Sr_{2-x}Ndx)Mn₂O₇, Ti₂Mn₂O₇] [N1111]
- C01G45/12C14 . . . [N: of the type [Mn₂O₅]ⁿ⁻] [N1111]
- C01G45/12C16 . . . [N: of the type [Mn₅O₁₂]ⁿ⁻] [N1111]

C01G47/00 Compounds of rhenium

- C01G47/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G47/00D . [N: Compounds containing, besides rhenium, two or more other elements, with the exception of oxygen or hydrogen]

C01G49/00 Compounds of iron

- C01G49/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G49/00C . [N: Mixed oxides or hydroxides, e.g. ferrites ([C01G49/00B](#) takes precedence)] [C9508]
- C01G49/00C2 . . [N: containing one alkali metal]
- C01G49/00C4 . . [N: containing one alkaline earth metal, magnesium or lead]
- C01G49/00C6 . . [N: containing aluminium]
- C01G49/00C8 . . [N: containing one rare earth metal, yttrium or scandium]
- C01G49/00C10 . . [N: containing zinc]
- C01G49/00C12 . . [N: containing manganese]
- C01G49/00C20 . . [N: containing iron in unusual valence state (IV, V, VI), e.g. ferrates]
- C01G49/00D . [N: Compounds containing, besides iron, two or more other elements, with the exception of oxygen or hydrogen]
- C01G49/02 . Oxides; Hydroxides [N: ([C01G49/00C](#) takes precedence)] [C9508]
- C01G49/04 . . Ferrous oxide (FeO)
- C01G49/06 . . Ferric oxide (Fe₂O₃)
- C01G49/08 . . Ferroso-ferric oxide (Fe₃O₄)

- C01G49/10 . Halides [N: ([C01G49/00C](#) takes precedence)] [C9508]
- C01G49/12 . Sulfides [N: ([C01G49/00C](#) takes precedence)] [C9508]
- C01G49/14 . Sulfates [N: ([C01G49/00C](#) takes precedence)] [C9508]
- C01G49/16 . Carbonyls [N: ([C01G49/00C](#) takes precedence)] [C9508]
- C01G51/00 Compounds of cobalt**
- C01G51/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G51/00D . [N: Compounds containing, besides cobalt, two or more other elements, with the exception of oxygen or hydrogen (**cobaltates** [C01G51/40](#))] [C1111]
- C01G51/02 . Carbonyls
- C01G51/04 . Oxides; Hydroxides
- C01G51/06 . Carbonates
- C01G51/08 . Halides
- C01G51/08C . . [N: Chlorides]
- C01G51/10 . Sulfates
- C01G51/12 . Complexes with ammonia
- C01G51/30 . [N: Sulfides] [N1111]
- C01G51/40 . [N: Cobaltates] [N1111]
- C01G51/42 . . [N: containing alkali metals, e.g. LiCoO_2] [N1111]
- C01G51/44 . . . [N: containing manganese] [N1111]
- C01G51/50 [N: of the type $[\text{MnO}_2]_n^-$, e.g. $\text{Li}(\text{Co}_x\text{Mn}_{1-x})\text{O}_2$, $\text{Li}(\text{MyCo}_x\text{Mn}_{1-x-y})\text{O}_2$] [N1111] [C1203]
- C01G51/52 [N: of the type $[\text{Mn}_2\text{O}_4]_2^-$, e.g. $\text{Li}_2(\text{Co}_x\text{Mn}_{2-x})\text{O}_4$, $\text{Li}_2(\text{MyCo}_x\text{Mn}_{2-x-y})\text{O}_4$] [N1111]
- C01G51/54 [N: of the type $[\text{Mn}_2\text{O}_4]^-$, e.g. $\text{Li}(\text{Co}_x\text{Mn}_{2-x})\text{O}_4$, $\text{Li}(\text{MyCo}_x\text{Mn}_{2-x-y})\text{O}_4$] [N1111]
- C01G51/56 [N: of the type $[\text{MnO}_3]_2^-$, e.g. $\text{Li}_2[\text{Co}_x\text{Mn}_{1-x}\text{O}_3]$, $\text{Li}_2[\text{MyCo}_x\text{Mn}_{1-x-y}\text{O}_3]$] [N1111]
- C01G51/58 [N: of the type $[\text{Mn}_2\text{O}_8]_n^-$] [N1111]
- C01G51/60 [N: of the type $[\text{Mn}_2\text{O}_7]_n^-$] [N1111]
- C01G51/62 [N: of the type $[\text{Mn}_2\text{O}_5]_n^-$] [N1111]
- C01G51/64 [N: of the type $[\text{Mn}_5\text{O}_{12}]_n^-$] [N1111]
- C01G51/66 . . [N: containing alkaline earth metals, e.g. SrCoO_3] [N1111]
- C01G51/68 . . . [N: containing rare earth, e.g. $\text{La}_{0.3}\text{Sr}_{0.7}\text{CoO}_3$] [N1111]
- C01G51/70 . . [N: containing rare earth, e.g. LaCoO_3 ([C01G51/68](#) takes precedence)] [N1111]

- C01G53/00** **Compounds of nickel**
- C01G53/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G53/00D . [N: Compounds containing, besides nickel, two or more other elements, with the exception of oxygen or hydrogen (**nickelates** [C01G53/40](#))] [C1112]
- C01G53/02 . Carbonyls
- C01G53/04 . Oxides; Hydroxides
- C01G53/06 . Carbonates
- C01G53/08 . Halides
- C01G53/09 . . Chlorides
- C01G53/10 . Sulfates
- C01G53/11 . Sulfides
- C01G53/12 . Complexes with ammonia
- C01G53/40 . [N: Nickelates] [N1111]
- [N: **WARNING** [N1112]
 Groups [C01G53/40](#) to [C01G53/70](#) are not complete pending a reorganisation, see also [C01G53/00D](#) and [C01G53/00](#)]
- C01G53/42 . . [N: containing alkali metals, e.g. LiNiO₂] [N1111]
- C01G53/44 . . . [N: containing manganese] [N1111]
- C01G53/50 [N: of the type [MnO₂]ⁿ⁻, e.g. Li(NixMn1-x)O₂, Li(MyNixMn1-x-y)O₂] [N1111] [C1203]
- C01G53/52 [N: of the type [Mn₂O₄]²⁻, e.g. Li₂(NixMn2-x)O₄, Li₂(MyNixMn2-x-y)O₄] [N1111]
- C01G53/54 [N: of the type [Mn₂O₄]⁻, e.g. Li(NixMn2-x)O₄, Li(MyNixMn2-x-y)O₄] [N1111]
- C01G53/56 [N: of the type [MnO₃]²⁻, e.g. Li₂[NixMn1-xO₃], Li₂[MyNixMn1-x-yO₃] [N1111]
- C01G53/58 [N: of the type [Mn₂O₈]ⁿ⁻] [N1111]
- C01G53/60 [N: of the type [Mn₂O₇]ⁿ⁻] [N1111]
- C01G53/62 [N: of the type [Mn₂O₅]ⁿ⁻] [N1111]
- C01G53/64 [N: of the type [Mn₅O₁₂]ⁿ⁻] [N1111]
- C01G53/66 . . [N: containing alkaline earth metals, e.g. SrNiO₃, SrNiO₂] [N1111]
- C01G53/68 . . . [N: containing rare earth, e.g. La_{1.62} Sr_{0.38}NiO₄] [N1111]
- C01G53/70 . . [N: containing rare earth, e.g. LaNiO₃ ([C01G53/68](#) takes precedence)] [N1111]
- C01G55/00** **Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum**

- C01G55/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G55/00D . [N: Compounds containing, besides ruthenium, rhodium, palladium, osmium, iridium, or platinum, two or more other elements, with the exception of oxygen or hydrogen ([C01G55/00M](#) takes precedence)]
- C01G55/00F . [N: Oxides; Hydroxides]
- C01G55/00K . [N: Halides]
- C01G55/00M . [N: Compounds containing at least one carbonyl group]
- C01G55/00M2 . . [N: Carbonyls]

C01G56/00 **Compounds of transuranic elements**

- C01G56/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange]
- C01G56/00B2 . . [N: by adsorption or by ion-exchange on a solid support]
- C01G56/00D . [N: Compounds comprising, besides transuranic elements, two or more other elements, with the exception of oxygen or hydrogen ([C01G56/00B](#) takes precedence)]
- C01G56/00F . [N: Compounds of plutonium ([C01G56/00B](#) takes precedence)]
- C01G56/00F2 . . [N: Oxides; Hydroxides]
- C01G56/00F4 . . [N: Halides]
- C01G56/00H . [N: Compounds of transuranic elements ([C01G56/00B](#) and [C01G56/00F](#) take precedence)]
- C01G56/00H2 . . [N: Compounds of neptunium]
- C01G56/00H4 . . [N: Compounds of americium]

C01G99/00 **Subject matter not provided for in other groups of this subclass [N1105]**

- C01G99/00B . [N: Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange] [N1105]
- C01G99/00D . [N: Compounds containing, besides a metal not provided for elsewhere in this subclass, two or more other elements other than oxygen or hydrogen ([C01G99/00B](#) takes precedence)] [N1105]