

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](#))

C01G 1/00

Methods of preparing compounds of metals not covered by subclasses [C01B](#), [C01C](#), [C01D](#), or [C01F](#), in general (electrolytic production of inorganic compounds [C25B 1/00](#))

[C01G 1/02](#)

. Oxides

[C01G 1/04](#)

. Carbonyls

[C01G 1/06](#)

. Halides

[C01G 1/08](#)

. Nitrates

[C01G 1/10](#)

. Sulfates

[C01G 1/12](#)

. Sulfides

[C01G 1/14](#)

. Sulfites

C01G 3/00**Compounds of copper**[C01G 3/003](#)

. {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}

[C01G 3/006](#)

. {Compounds containing, besides copper, two or more other elements, with the exception of oxygen or hydrogen}

[C01G 3/02](#)

. Oxides; Hydroxides

[C01G 3/04](#)

. Halides

[C01G 3/05](#)

. . Chlorides

[C01G 3/06](#)

. . Oxychlorides

[C01G 3/08](#)

. Nitrates

[C01G 3/10](#)

. Sulfates

[C01G 3/12](#)

. Sulfides

[C01G 3/14](#)

. Complexes with ammonia

C01G 5/00**Compounds of silver**

| | |
|-------------------|--|
| C01G 5/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 5/006 | <ul style="list-style-type: none"> . {Compounds containing, besides silver, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 5/02 | <ul style="list-style-type: none"> . Halides |
| C01G 7/00 | Compounds of gold |
| C01G 7/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 7/006 | <ul style="list-style-type: none"> . {Compounds containing, besides gold, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 9/00 | Compounds of zinc |
| C01G 9/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 9/006 | <ul style="list-style-type: none"> . {Compounds containing, besides zinc, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 9/02 | <ul style="list-style-type: none"> . Oxides; Hydroxides |
| C01G 9/03 | <ul style="list-style-type: none"> . . Processes of production using dry methods, e.g. vapour phase processes |
| C01G 9/04 | <ul style="list-style-type: none"> . Halides |
| C01G 9/06 | <ul style="list-style-type: none"> . Sulfates |
| C01G 9/08 | <ul style="list-style-type: none"> . Sulfides |
| C01G 11/00 | Compounds of cadmium |
| C01G 11/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 11/006 | <ul style="list-style-type: none"> . {Compounds containing, besides cadmium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 11/02 | <ul style="list-style-type: none"> . Sulfides |
| C01G 13/00 | Compounds of mercury |
| C01G 13/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 13/006 | <ul style="list-style-type: none"> . {Compounds containing, besides mercury, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 13/02 | <ul style="list-style-type: none"> . Oxides |
| C01G 13/04 | <ul style="list-style-type: none"> . Halides |
| C01G 15/00 | Compounds of gallium, indium or thallium |
| C01G 15/003 | <ul style="list-style-type: none"> . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 15/006 | <ul style="list-style-type: none"> . {Compounds containing, besides gallium, indium, or thallium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 17/00 | Compounds of germanium |

- C01G 17/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 17/006 . {Compounds containing, besides germanium, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 17/02 . Germanium dioxide
- C01G 17/04 . Halides of germanium

C01G 19/00**Compounds of tin**

- C01G 19/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 19/006 . {Compounds containing, besides tin, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 19/02 . Oxides
- C01G 19/04 . Halides
- C01G 19/06 . . Stannous chloride
- C01G 19/08 . . Stannic chloride

C01G 21/00**Compounds of lead**

- C01G 21/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 21/006 . {Compounds containing, besides lead, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 21/02 . Oxides
- C01G 21/04 . . Lead suboxide (Pb_2O)
- C01G 21/06 . . Lead monoxide (PbO)
- C01G 21/08 . . Lead dioxide (PbO_2)
- C01G 21/10 . . Red lead (Pb_3O_4)
- C01G 21/12 . Hydroxides
- C01G 21/14 . Carbonates
- C01G 21/16 . Halides
- C01G 21/18 . Nitrates
- C01G 21/20 . Sulfates
- C01G 21/21 . Sulfides
- C01G 21/22 . Plumbates; Plumbites

C01G 23/00**Compounds of titanium** {(preparation of Ti-compounds from ores or scraps [C22B 34/12](#))}

- C01G 23/001 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 23/002 . {Compounds containing, besides titanium, two or more other elements, with the exception of oxygen or hydrogen ([C01G 23/001](#) takes precedence)}
- C01G 23/003 . {Titanates, e.g. titanates of two or more metals other than titanium ([C01G 23/001](#) takes precedence)}
- C01G 23/005 . . {Alkali titanates}

- C01G 23/006 . . {Alkaline earth titanates}
- C01G 23/007 . {Titanium sulfides (C01G 23/001 takes precedence)}
- C01G 23/008 . {Titanium- and titanyl sulfate (C01G 23/001 takes precedence)}
- C01G 23/02 . Halides of titanium
- C01G 23/022 . . {Titanium tetrachloride}
- C01G 23/024 . . . {Purification of tetrachloride}
- C01G 23/026 . . {Titanium trichloride}
- C01G 23/028 . . {Titanium fluoride}
- C01G 23/04 . Oxides; Hydroxides
- C01G 23/043 . . {Titanium sub-oxides}
- C01G 23/047 . . Titanium dioxide
- C01G 23/0475 . . . {Purification}
- C01G 23/053 . . . Producing by wet processes, e.g. hydrolysing titanium salts
- C01G 23/0532 {by hydrolysing sulfate-containing salts}
- C01G 23/0534 {in the presence of seeds}
- C01G 23/0536 {by hydrolysing chloride-containing salts}
- C01G 23/0538 {in the presence of seeds}
- C01G 23/07 . . . Producing by vapour phase processes, e.g. halide oxidation
- C01G 23/075 {Evacuation and cooling of the gaseous suspension containing the oxide; Desacidification and elimination of gases occluded in the separated oxide}
- C01G 23/08 . . . Drying; Calcining; {After treatment of titanium oxide}

C01G 25/00**Compounds of zirconium**

- C01G 25/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 25/006 . {Compounds containing, besides zirconium, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 25/02 . Oxides
- C01G 25/04 . Halides
- C01G 25/06 . Sulfates

C01G 27/00**Compounds of hafnium**

- C01G 27/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 27/006 . {Compounds containing, besides hafnium, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 27/02 . Oxides
- C01G 27/04 . Halides
- C01G 27/06 . Sulfates

C01G 28/00**Compounds of arsenic**

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| C01G 28/001 | <ul style="list-style-type: none"> • {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} |
| C01G 28/002 | <ul style="list-style-type: none"> • {Compounds containing, besides arsenic, two or more other elements, with the exception of oxygen or hydrogen (C01G 28/001 takes precedence)} |
| C01G 28/004 | <ul style="list-style-type: none"> • . {containing halogen} |
| C01G 28/005 | <ul style="list-style-type: none"> • {Oxides; Hydroxides; Oxyacids (C01G 28/001 takes precedence)} |
| C01G 28/007 | <ul style="list-style-type: none"> • {Halides (C01G 28/001 takes precedence)} |
| C01G 28/008 | <ul style="list-style-type: none"> • {Sulfides (C01G 28/001 takes precedence)} |
| C01G 28/02 | <ul style="list-style-type: none"> • Arsenates; Arsenites {(C01G 28/001 takes precedence)} |
| C01G 28/023 | <ul style="list-style-type: none"> • . {of ammonium, alkali or alkaline-earth metals or magnesium} |
| C01G 28/026 | <ul style="list-style-type: none"> • . {containing at least two metals} |
| C01G 29/00 | Compounds of bismuth |
| C01G 29/003 | <ul style="list-style-type: none"> • {Preparations involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 29/006 | <ul style="list-style-type: none"> • {Compounds containing, besides bismuth, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 30/00 | Compounds of antimony |
| C01G 30/001 | <ul style="list-style-type: none"> • {Preparation involving a solvent-solvent extraction, an adsorption or an ion-exchange} |
| C01G 30/002 | <ul style="list-style-type: none"> • {Compounds containing, besides antimony, two or more other elements, with the exception of oxygen or hydrogen (C01G 30/001 takes precedence)} |
| C01G 30/003 | <ul style="list-style-type: none"> • . {containing halogen} |
| C01G 30/004 | <ul style="list-style-type: none"> • {Oxides; Hydroxides; Oxyacids (C01G 30/001 takes precedence)} |
| C01G 30/005 | <ul style="list-style-type: none"> • . {Oxides} |
| C01G 30/006 | <ul style="list-style-type: none"> • {Halides (C01G 30/001 takes precedence)} |
| C01G 30/007 | <ul style="list-style-type: none"> • . {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} |
| C01G 30/008 | <ul style="list-style-type: none"> • {Sulfides (C01G 30/001 takes precedence)} |
| C01G 30/02 | <ul style="list-style-type: none"> • Antimonates; Antimonites {(C01G 30/001 takes precedence)} |
| C01G 30/023 | <ul style="list-style-type: none"> • . {of ammonium, alkali or alkaline-earth metals or magnesium} |
| C01G 30/026 | <ul style="list-style-type: none"> • . {containing at least two metals} |
| C01G 31/00 | Compounds of vanadium |
| C01G 31/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 31/006 | <ul style="list-style-type: none"> • {Compounds containing, besides vanadium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 31/02 | <ul style="list-style-type: none"> • Oxides |
| C01G 31/04 | <ul style="list-style-type: none"> • Halides |
| C01G 33/00 | Compounda of niobium |

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| C01G 33/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 33/006 | <ul style="list-style-type: none"> • {Compounds containing, besides niobium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 35/00 | Compounds of tantalum |
| C01G 35/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 35/006 | <ul style="list-style-type: none"> • {Compounds containing, besides tantalum, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 35/02 | <ul style="list-style-type: none"> • Halides |
| C01G 37/00 | Compounds of chromium |
| C01G 37/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 37/006 | <ul style="list-style-type: none"> • {Compounds containing, besides chromium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 37/02 | <ul style="list-style-type: none"> • Oxides or hydrates thereof |
| C01G 37/027 | <ul style="list-style-type: none"> • . Chromium dioxide |
| C01G 37/033 | <ul style="list-style-type: none"> • . Chromium trioxide; Chromic acid |
| C01G 37/04 | <ul style="list-style-type: none"> • Chromium halides |
| C01G 37/06 | <ul style="list-style-type: none"> • . Chromylhalides |
| C01G 37/08 | <ul style="list-style-type: none"> • Chromium sulfates |
| C01G 37/10 | <ul style="list-style-type: none"> • . Chrome alum |
| C01G 37/14 | <ul style="list-style-type: none"> • Chromates; Bichromates |
| C01G 39/00 | Compounds of molybdenum |
| C01G 39/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 39/006 | <ul style="list-style-type: none"> • {Compounds containing, besides molybdenum, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 39/02 | <ul style="list-style-type: none"> • Oxides; Hydroxides |
| C01G 39/04 | <ul style="list-style-type: none"> • Halides |
| C01G 39/06 | <ul style="list-style-type: none"> • Sulfides |
| C01G 41/00 | Compounds of tungsten |
| C01G 41/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 41/006 | <ul style="list-style-type: none"> • {Compounds containing, besides tungsten, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 41/02 | <ul style="list-style-type: none"> • Oxides; Hydroxides |
| C01G 41/04 | <ul style="list-style-type: none"> • Halides |
| C01G 43/00 | Compounds of uranium |

- C01G 43/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 43/006 . {Compounds containing, besides uranium, two or more other elements, with the exception of oxygen or hydrogen}
- C01G 43/01 . Oxides; Hydroxides
- C01G 43/025 . . Uranium dioxide
- C01G 43/04 . Halides of uranium
- C01G 43/06 . . Fluorides
- C01G 43/063 . . . {Hexafluoride (UF₆)}
- C01G 43/066 {Preparation}
- C01G 43/08 . . Chlorides
- C01G 43/10 . . Bromides
- C01G 43/12 . . Iodides

C01G 45/00 **Compounds of manganese**

- C01G 45/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 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](#))}
- C01G 45/02 . Oxides; Hydroxides
- C01G 45/04 . Carbonyls
- C01G 45/06 . Halides
- C01G 45/08 . Nitrates
- C01G 45/10 . Sulfates
- C01G 45/12 . Manganates {manganites or} permanganates
- C01G 45/1207 . . {Permanganates ([MnO]₄⁻) or manganates ([MnO₄]²⁻)}
- C01G 45/1214 . . . {containing alkali metals}
- C01G 45/1221 . . {Manganates or manganites with a manganese oxidation state of Mn(III), Mn(IV) or mixtures thereof}
- C01G 45/1228 . . . {of the type [MnO₂]ⁿ⁻, e.g. LiMnO₂, Li[M_xMn_{1-x}]O₂}
- C01G 45/1235 . . . {of the type [Mn₂O₄]²⁻, e.g. Li₂Mn₂O₄, Li₂[M_xMn_{2-x}]O₄}
- C01G 45/1242 . . . {of the type [Mn₂O₄]⁻, e.g. LiMn₂O₄, Li[M_xMn_{2-x}]O₄}
- C01G 45/125 . . . {of the type [MnO₃]ⁿ⁻, e.g. Li₂MnO₃, Li₂[M_xMn_{1-x}O₃], (La,Sr)MnO₃}
- C01G 45/1257 {containing lithium, e.g. Li₂MnO₃, Li₂[M_xMn_{1-x}O₃]}
- C01G 45/1264 {containing rare earth, e.g. La_{1-x}CaxMnO₃, LaMnO₃}
- C01G 45/1271 . . . {of the type [Mn₂O₈]ⁿ⁻, e.g. (LaSr₃)Mn₂O₈}
- C01G 45/1278 . . . {of the type [Mn₂O₇]ⁿ⁻, e.g. (Sr_{2-x}Ndx)Mn₂O₇, Ti₂Mn₂O₇}
- C01G 45/1285 . . . {of the type [Mn₂O₅]ⁿ⁻}
- C01G 45/1292 . . . {of the type [Mn₅O₁₂]ⁿ⁻}

C01G 47/00 **Compounds of rhenium**

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| C01G 47/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 47/006 | <ul style="list-style-type: none"> • {Compounds containing, besides rhenium, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 49/00 | Compounds of iron |
| C01G 49/0009 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 49/0018 | <ul style="list-style-type: none"> • {Mixed oxides or hydroxides, e.g. ferrites (C01G 49/0009 takes precedence)} |
| C01G 49/0027 | <ul style="list-style-type: none"> • . {containing one alkali metal} |
| C01G 49/0036 | <ul style="list-style-type: none"> • . {containing one alkaline earth metal, magnesium or lead} |
| C01G 49/0045 | <ul style="list-style-type: none"> • . {containing aluminium} |
| C01G 49/0054 | <ul style="list-style-type: none"> • . {containing one rare earth metal, yttrium or scandium} |
| C01G 49/0063 | <ul style="list-style-type: none"> • . {containing zinc} |
| C01G 49/0072 | <ul style="list-style-type: none"> • . {containing manganese} |
| C01G 49/0081 | <ul style="list-style-type: none"> • . {containing iron in unusual valence state (IV, V, VI), e.g. ferrates} |
| C01G 49/009 | <ul style="list-style-type: none"> • {Compounds containing, besides iron, two or more other elements, with the exception of oxygen or hydrogen} |
| C01G 49/02 | <ul style="list-style-type: none"> • Oxides; Hydroxides {(C01G 49/0018 takes precedence)} |
| C01G 49/04 | <ul style="list-style-type: none"> • . Ferrous oxide (FeO) |
| C01G 49/06 | <ul style="list-style-type: none"> • . Ferric oxide (Fe₂O₃) |
| C01G 49/08 | <ul style="list-style-type: none"> • . Ferroso-ferric oxide (Fe₃O₄) |
| C01G 49/10 | <ul style="list-style-type: none"> • Halides {(C01G 49/0018 takes precedence)} |
| C01G 49/12 | <ul style="list-style-type: none"> • Sulfides {(C01G 49/0018 takes precedence)} |
| C01G 49/14 | <ul style="list-style-type: none"> • Sulfates {(C01G 49/0018 takes precedence)} |
| C01G 49/16 | <ul style="list-style-type: none"> • Carbonyls {(C01G 49/0018 takes precedence)} |
| C01G 51/00 | Compounds of cobalt |
| C01G 51/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 51/006 | <ul style="list-style-type: none"> • {Compounds containing, besides cobalt, two or more other elements, with the exception of oxygen or hydrogen (cobaltates C01G 51/40)} |
| C01G 51/02 | <ul style="list-style-type: none"> • Carbonyls |
| C01G 51/04 | <ul style="list-style-type: none"> • Oxides; Hydroxides |
| C01G 51/06 | <ul style="list-style-type: none"> • Carbonates |
| C01G 51/08 | <ul style="list-style-type: none"> • Halides |
| C01G 51/085 | <ul style="list-style-type: none"> • . {Chlorides} |
| C01G 51/10 | <ul style="list-style-type: none"> • Sulfates |
| C01G 51/12 | <ul style="list-style-type: none"> • Complexes with ammonia |
| C01G 51/30 | <ul style="list-style-type: none"> • {Sulfides} |
| C01G 51/40 | <ul style="list-style-type: none"> • {Cobaltates} |
| C01G 51/42 | <ul style="list-style-type: none"> • . {containing alkali metals, e.g. LiCoO₂} |

- C01G 51/44 . . . {containing manganese}
- C01G 51/50 {of the type $[\text{MnO}_2]_n^-$, e.g. $\text{Li}(\text{CoxMn}_{1-x})\text{O}_2$, $\text{Li}(\text{MyCoxMn}_{1-x-y})\text{O}_2$ }
- C01G 51/52 {of the type $[\text{Mn}_2\text{O}_4]_2^-$, e.g. $\text{Li}_2(\text{CoxMn}_{2-x})\text{O}_4$, $\text{Li}_2(\text{MyCoxMn}_{2-x-y})\text{O}_4$ }
- C01G 51/54 {of the type $[\text{Mn}_2\text{O}_4]^-$, e.g. $\text{Li}(\text{CoxMn}_{2-x})\text{O}_4$, $\text{Li}(\text{MyCoxMn}_{2-x-y})\text{O}_4$ }
- C01G 51/56 {of the type $[\text{MnO}_3]_2^-$, e.g. $\text{Li}_2[\text{CoxMn}_{1-x}\text{O}_3]$, $\text{Li}_2[\text{MyCoxMn}_{1-x-y}\text{O}_3]$ }
- C01G 51/58 {of the type $[\text{Mn}_2\text{O}_8]_n^-$ }
- C01G 51/60 {of the type $[\text{Mn}_2\text{O}_7]_n^-$ }
- C01G 51/62 {of the type $[\text{Mn}_2\text{O}_5]_n^-$ }
- C01G 51/64 {of the type $[\text{Mn}_5\text{O}_{12}]_n^-$ }
- C01G 51/66 . . {containing alkaline earth metals, e.g. SrCoO_3 }
- C01G 51/68 . . . {containing rare earth, e.g. $\text{La}_{0.3}\text{Sr}_{0.7}\text{CoO}_3$ }
- C01G 51/70 . . {containing rare earth, e.g. LaCoO_3 ([C01G 51/68](#) takes precedence)}

C01G 53/00**Compounds of nickel**

- C01G 53/003 . {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange}
- C01G 53/006 . {Compounds containing, besides nickel, two or more other elements, with the exception of oxygen or hydrogen ([nickelates C01G 53/40](#))}
- C01G 53/02 . Carbonyls
- C01G 53/04 . Oxides; Hydroxides
- C01G 53/06 . Carbonates
- C01G 53/08 . Halides
- C01G 53/09 . . Chlorides
- C01G 53/10 . Sulfates
- C01G 53/11 . Sulfides
- C01G 53/12 . Complexes with ammonia
- C01G 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](#)

- C01G 53/42 . . {containing alkali metals, e.g. LiNiO_2 }
- C01G 53/44 . . . {containing manganese}
- C01G 53/50 {of the type $[\text{MnO}_2]_n^-$, e.g. $\text{Li}(\text{NixMn}_{1-x})\text{O}_2$, $\text{Li}(\text{MyNixMn}_{1-x-y})\text{O}_2$ }
- C01G 53/52 {of the type $[\text{Mn}_2\text{O}_4]_2^-$, e.g. $\text{Li}_2(\text{NixMn}_{2-x})\text{O}_4$, $\text{Li}_2(\text{MyNixMn}_{2-x-y})\text{O}_4$ }
- C01G 53/54 {of the type $[\text{Mn}_2\text{O}_4]^-$, e.g. $\text{Li}(\text{NixMn}_{2-x})\text{O}_4$, $\text{Li}(\text{MyNixMn}_{2-x-y})\text{O}_4$ }
- C01G 53/56 {of the type $[\text{MnO}_3]_2^-$, e.g. $\text{Li}_2[\text{NixMn}_{1-x}\text{O}_3]$, $\text{Li}_2[\text{MyNixMn}_{1-x-y}\text{O}_3]$ }
- C01G 53/58 {of the type $[\text{Mn}_2\text{O}_8]_n^-$ }
- C01G 53/60 {of the type $[\text{Mn}_2\text{O}_7]_n^-$ }
- C01G 53/62 {of the type $[\text{Mn}_2\text{O}_5]_n^-$ }
- C01G 53/64 {of the type $[\text{Mn}_5\text{O}_{12}]_n^-$ }

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| C01G 53/66 | <ul style="list-style-type: none"> • {containing alkaline earth metals, e.g. SrNiO_3, SrNiO_2} |
| C01G 53/68 | <ul style="list-style-type: none"> • {containing rare earth, e.g. $\text{La}_{1.62}\text{Sr}_{0.38}\text{NiO}_4$} |
| C01G 53/70 | <ul style="list-style-type: none"> • {containing rare earth, e.g. LaNiO_3 (C01G 53/68 takes precedence)} |
| C01G 55/00 | Compounds of ruthenium, rhodium, palladium, osmium, iridium, or platinum |
| C01G 55/001 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 55/002 | <ul style="list-style-type: none"> • {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)} |
| C01G 55/004 | <ul style="list-style-type: none"> • {Oxides; Hydroxides} |
| C01G 55/005 | <ul style="list-style-type: none"> • {Halides} |
| C01G 55/007 | <ul style="list-style-type: none"> • {Compounds containing at least one carbonyl group} |
| C01G 55/008 | <ul style="list-style-type: none"> • {Carbonyls} |
| C01G 56/00 | Compounds of transuranic elements |
| C01G 56/001 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 56/002 | <ul style="list-style-type: none"> • {by adsorption or by ion-exchange on a solid support} |
| C01G 56/003 | <ul style="list-style-type: none"> • {Compounds comprising, besides transuranic elements, two or more other elements, with the exception of oxygen or hydrogen (C01G 56/001 takes precedence)} |
| C01G 56/004 | <ul style="list-style-type: none"> • {Compounds of plutonium (C01G 56/001 takes precedence)} |
| C01G 56/005 | <ul style="list-style-type: none"> • {Oxides; Hydroxides} |
| C01G 56/006 | <ul style="list-style-type: none"> • {Halides} |
| C01G 56/007 | <ul style="list-style-type: none"> • {Compounds of transuranic elements (C01G 56/001 and C01G 56/004 take precedence)} |
| C01G 56/008 | <ul style="list-style-type: none"> • {Compounds of neptunium} |
| C01G 56/009 | <ul style="list-style-type: none"> • {Compounds of americium} |
| C01G 99/00 | Subject matter not provided for in other groups of this subclass |
| C01G 99/003 | <ul style="list-style-type: none"> • {Preparation involving a liquid-liquid extraction, an adsorption or an ion-exchange} |
| C01G 99/006 | <ul style="list-style-type: none"> • {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)} |