

C01D

COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM (metal hydrides [N: monoborane, diborane or addition complexes thereof] C01B6/00; salts of oxyacids of halogens C01B11/00; peroxides, salts of peroxyacids C01B15/00; sulfides C01B17/22; 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 other than ammonia and cyanogen, containing nitrogen and other non-metals C01B21/082]; metal amides C01B21/092; nitrites C01B21/50; phosphides C01B21/50; [N: compounds of noble gases C01B23/0005]; phosphides C01B25/08; salts of oxyacids of phosphorus C01B25/16; carbides C01B31/30; compounds containing silicon C01B33/00; compounds containing boron C01B35/00; cyanides C01C3/08; salts of cyanic acid C01C3/14; salts of cyanamide C01C3/16; thiocyanates C01C3/20

Definition statement

This subclass/group covers:

This group covers

- Oxides or hydroxides; halides; sulfates or sulfites; carbonates; nitrates of sodium, potassium or other alkali
- metals in general
- Compounds of sodium or potassium not provided for elsewhere
- Lithium compounds, e.g. oxides, halides, sulfates, carbonates, nitrates
- Rubidium, caesium or francium compounds
- Synthesis, treatment or modification of any the elements or compounds above
- Forming shaped alkali metal compounds and the shaped products, per se, e.g. granules

References relevant to classification in this subclass

This subclass/group does not cover:

This subclass does not cover exceptions to the last appropriate place rule:

Metal hydrides, monoborane,	C01B 6/00
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diborane or addition complexes thereof	
Salts of oxyacids of halogens	C01B 11/00
Peroxides, salts of peroxyacids	C01B 15/00
Sulfides or polysulfides of magnesium, calcium, strontium, or barium	C01B 17/42
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 other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals	C01B 21/082
Amides or imides of silicon	C01B 21/087
Metal imides or amides	C01B 21/092 , C01B 21/0923
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	C01B 37/00

base-exchange properties	
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

Special rules of classification

In this subclass, in the absence of an indication to the contrary, a compound is classified in the last appropriate place.

C01D 1/00

Oxides or hydroxides of sodium, potassium, or alkali metals in general

Definition statement

This subclass/group covers:

Oxides or hydroxides of sodium or of potassium when claimed per se or the preparation thereof.

For example :

- Preparation by reacting oxides with alkali metal salts, from cyano compounds
- Purification by crystallisation, oxydation, dialysis
- Preparation in the form of shaped products

C01D 3/00

Halides of sodium, potassium, or alkali metals in general [N: (halides in general C01B9/00)]

Definition statement

This subclass/group covers:

Halides of sodium or of potassium when claimed per se or the preparation thereof.

For example :

- Preparation by working up brines
- Purification by solid chelating agents, with selective solvents, by melting
- Preparation in the form of shaped products
- Prevention of moisture absorption of the crystals

References relevant to classification in this group

This subclass/group does not cover:

Halides in general	C01B 9/00
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C01D 5/00

Sulfates or sulfites of sodium, potassium, or alkali metals in general [N: (sulfites in general C01B17/62)]

Definition statement

This subclass/group covers:

Sulfates and sulfites of sodium or of potassium when claimed per se or the preparation thereof.

For example :

- Preparation of sulfates from alkali salts and sulfuric acids
- Preparation of potassium sulfate from alunite
- Preparation of sulfates by double decomposition
- Preparation of sulfites
- Purification or dehydration
- Preparation in the form of shaped products
- Prevention of moisture absorption of the crystals

C01D 7/00

Carbonates of sodium, potassium, or alkali metals in general

Definition statement

This subclass/group covers:

Carbonates of sodium or of potassium when claimed per se or the preparation thereof.

For example :

- Preparation by double decomposition
- Preparation from the hydroxides
- Preparation of bicarbonates and sesquicarbonates
- Purification by crystallisation, by oxidation, by electrolysis
- Preparation in the form of shaped products
- Prevention of moisture absorption

C01D 9/00

Nitrates of sodium, potassium, or alkali metals in general [N: (preparation as fertilizers or of fertilizers containing them C05D5/00)]

Definition statement

This subclass/group covers:

Nitrates of sodium or of potassium when claimed per se or the preparation thereof.

For example :

- Preparation by working-up natural salt mixtures
- Preparation with gaseous nitric acid or nitrogen oxides
- Preparation of by double decomposition
- Purification
- Preparation in the form of shaped products
- Prevention of moisture absorption

References relevant to classification in this group

This subclass/group does not cover:

Preparation of fertilizers or of fertilizers containing them	C05D 5/00
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C01D 13/00

Compounds of sodium or potassium not provided for elsewhere

Definition statement

This subclass/group covers:

Compounds of sodium or potassium not provided for elsewhere when claimed per se or the preparation thereof.

C01D 15/00

Lithium compounds

Definition statement

This subclass/group covers:

Compounds of lithium claimed per se or the preparation thereof.

For example :

- Lithium hexafluorophosphate
- Oxides, halides, carbonates, nitrates of lithium

C01D 17/00

Rubidium, caesium, or francium compounds

Definition statement

This subclass/group covers:

Compounds of rubidium, caesium, or francium claimed per se or the preparation thereof.

For example :

- Compounds of Rubidium, Caesium or Francium combined with alkali metals

