

C01D

COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM (metal hydrides {monoborane, diborane or addition complexes thereof} [C01B 6/00](#); salts of oxyacids of halogens [C01B 11/00](#); peroxides, salts of peroxyacids [C01B 15/00](#); sulfides [C01B 17/22](#); 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 and cyanogen, containing nitrogen and other non-metals [C01B 21/082](#)}; metal amides [C01B 21/092](#); nitrites [C01B 21/50](#); phosphides [C01B 21/50](#); {compounds of noble gases [C01B 23/0005](#)}; phosphides [C01B 25/08](#); salts of oxyacids of phosphorus [C01B 25/16](#); carbides [C01B 32/90](#); compounds containing silicon [C01B 33/00](#); compounds containing boron [C01B 35/00](#); cyanides [C01C 3/08](#); salts of cyanic acid [C01C 3/14](#); salts of cyanamide [C01C 3/16](#); thiocyanates [C01C 3/20](#))

Definition statement

This place 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

Limiting references

This place does not cover:

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

Metal hydrides, monoborane, diborane or addition complexes thereof	C01B 6/00
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 32/90
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

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 place 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 {(halides in general [C01B 9/00](#))}

Definition statement

This place 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

Limiting references

This place 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 {(sulfites in general [C01B 17/62](#))}

Definition statement

This place 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 place 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 {(preparation as fertilizers or of fertilizers containing them [C05D 5/00](#))}

Definition statement

This place 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

Limiting references

This place 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 place 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 place 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 place 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