

## 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

### Relationships with other classification places

#### MULTIPLE CLASSIFICATION

Biocidal, pest repellent, pest attractant, or plant growth regulatory activity of chemical compounds or preparations is further classified in [A01P](#).

Therapeutic activity of chemical compounds or medicinal preparations is further classified in subclass [A61P](#).

Uses of cosmetics or similar toilet preparations are further classified in subclass [A61Q](#).

### 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	<a href="#">C01B 6/00</a>
Salts of oxyacids of halogens	<a href="#">C01B 11/00</a>
Peroxides, salts of peroxyacids	<a href="#">C01B 15/00</a>
Sulfides or polysulfides of magnesium, calcium, strontium, or barium	<a href="#">C01B 17/42</a>
Thiosulfates, dithionites, polythionates	<a href="#">C01B 17/64</a>

Compounds containing selenium or tellurium	<a href="#">C01B 19/00</a>
Binary compounds of nitrogen with metals	<a href="#">C01B 21/06</a>
Azides	<a href="#">C01B 21/08</a>
Compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals	<a href="#">C01B 21/082</a>
Amides or imides of silicon	<a href="#">C01B 21/087</a>
Metal imides or amides	<a href="#">C01B 21/092</a> , <a href="#">C01B 21/0923</a>
Nitrites	<a href="#">C01B 21/50</a>
Compounds of noble gases	<a href="#">C01B 23/0005</a>
Phosphides	<a href="#">C01B 25/08</a>
Salts of oxyacids of phosphorus	<a href="#">C01B 25/16</a>
Carbides	<a href="#">C01B 32/90</a>
Compounds containing silicon	<a href="#">C01B 33/00</a>
Compounds containing boron	<a href="#">C01B 35/00</a>
Compounds having molecular sieve properties but not having base-exchange properties	<a href="#">C01B 37/00</a>
Compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites	<a href="#">C01B 39/00</a>
Cyanides	<a href="#">C01C 3/08</a>
Salts of cyanic acid	<a href="#">C01C 3/14</a>
Salts of cyanamide	<a href="#">C01C 3/16</a>
Thiocyanates	<a href="#">C01C 3/20</a>

### 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	<a href="#">C01B 9/00</a>
--------------------	---------------------------

## 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

## Definition statement

- 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	<a href="#">C05D 5/00</a>
--	---------------------------

**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