SECTION C — CHEMISTRY; METALLURGY

C01 INORGANIC CHEMISTRY

C01D COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM (metal hydrides C01B 6/00; salts of oxyacids of halogens C01B 11/00; peroxides, salts of peroxyacids C01B 15/00; sulfides or polysulfides 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; metal amides C01B 21/092; nitrites C01B 21/50; 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; cyanides C01C 3/08; salts of cyanic acid C01C 3/14; salts of cyanamide C01C 3/16; thiocyanates C01C 3/20; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide C12P 3/00; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal C22B; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis C25B)

Note(s) [7, 2006.01]

1. Attention is drawn to Note (1) after class C01, which defines the last place priority rule applied in this class, i.e. in the range of subclasses C01B-C01G and within these subclasses.
2. Therapeutic activity of compounds is further classified in subclass A61P.

1/00 Oxides or hydroxides of sodium, potassium, or alkali metals in general [1, 2, 2006.01]
1/02 • Oxides **[1, 2006.01]**
1/04 • Hydroxides **[1, 2006.01]**
1/20 • • Preparation by reacting oxides or hydroxides with alkali metal salts **[1, 2006.01]**
1/22 • • • with carbonates or bicarbonates **[1, 2006.01]**
1/24 • • • from or via fluorides or silico-fluorides **[1, 2006.01]**
1/26 • • Preparation from or via cyano compounds, e.g. cyanides, cyanamides **[1, 2006.01]**
1/28 • • Purification; Separation **[1, 2006.01]**
1/30 • • • by crystallisation **[1, 2006.01]**
1/32 • • • by adsorption or precipitation **[1, 2006.01]**
1/34 • • • with selective solvents **[1, 2006.01]**
1/36 • • • by oxidation **[1, 2006.01]**
1/38 • • • by dialysis **[1, 2006.01]**
1/40 • • • by electrolysis **[1, 2006.01]**
1/42 • • Concentration; Dehydration **[1, 2006.01]**
1/44 • • Preparation in the form of granules, pieces, or other shaped products **[1, 2006.01]**

3/00 Halides of sodium, potassium, or alkali metals in general [1, 2, 2006.01]
3/02 • Fluorides **[1, 2006.01]**
3/04 • Chlorides **[1, 2006.01]**
3/06 • • Preparation by working up brines, seawater or spent lyes **[1, 2006.01]**
3/08 • • Preparation by working up natural or industrial salt mixtures or siliceous minerals **[1, 2006.01]**
3/10 • Bromides **[1, 2006.01]**
3/12 • Iodides **[1, 2006.01]**
3/14 • Purification **[1, 2006.01]**
3/16 • • by precipitation or adsorption **[1, 2006.01]**
3/18 • • with selective solvents **[1, 2006.01]**
3/20 • • by melting **[1, 2006.01]**
3/22 • Preparation in the form of granules, pieces, or other shaped products **[1, 2006.01]**
3/24 • • Influencing the crystallisation process **[1, 2006.01]**
3/26 • Preventing the absorption of moisture or caking of the crystals **[1, 2006.01]**

5/00 Sulfates or sulfites of sodium, potassium, or alkali metals in general [1, 2, 2006.01]
5/02 • Preparation of sulfates from alkali metal salts and sulfuric acid or bisulfates; Preparation of bisulfates **[1, 2006.01]**
5/04 • Preparation of sulfates with the aid of sulfurous acid or sulfites, e.g. Hargreaves process **[1, 2006.01]**
5/06 • Preparation of sulfates by double decomposition **[1, 2006.01]**
5/08 • • with each other or with ammonium sulfate **[1, 2006.01]**
5/10 • • with sulfates of magnesium, calcium, strontium, or barium **[1, 2006.01]**
5/12 • Preparation of double sulfates of magnesium with sodium or potassium **[1, 2, 2006.01]**
5/14 • Preparation of sulfites (C01D 5/04 takes precedence) **[1, 2006.01]**
5/16 • Purification **[1, 2006.01]**
5/18 • Dehydration **[1, 2006.01]**

7/00 Carbonates of sodium, potassium, or alkali metals in general [1, 2, 2006.01]
7/02 • Preparation by double decomposition **[1, 2006.01]**
7/04 • • with a fluoride or silico-fluoride (C01D 1/24 takes precedence) **[1, 2006.01]**
7/06 • Preparation via sodium or potassium magnesium carbonate **[1, 2006.01]**
7/07 • Preparation from the hydroxides **[2, 2006.01]**
7/08 • Preparation from or via cyano compounds of sodium or potassium (C01D 1/26 takes precedence) **[1, 2006.01]**
7/10 • Preparation of bicarbonates from carbonates (ammonia-soda process C01D 7/18) **[1, 2006.01]**

7/12 • Preparation of carbonates from bicarbonates **[1, 2006.01]**
7/14 • Preparation of sesquicarbonates **[1, 2006.01]**
7/16 • Preparation from compounds of sodium or potassium with amines and carbon dioxide **[1, 2006.01]**
7/18 • Preparation by the ammonia-soda process **[1, 2006.01]**
7/22 • Purification **[1, 2006.01]**
7/24 • • Crystallisation **[1, 2006.01]**
7/26 • • by precipitation or adsorption **[1, 2006.01]**
7/28 • • with selective solvents **[1, 2006.01]**
7/30 • • by oxidation **[1, 2006.01]**
7/32 • • by dialysis **[1, 2006.01]**
7/34 • • by electrolysis **[1, 2006.01]**
7/35 • Varying the content of water of crystallisation or the specific gravity **[2, 2006.01]**
7/37 • • Densifying sodium carbonate **[2, 2006.01]**
7/38 • Preparation in the form of granules, pieces, or other shaped products **[1, 2006.01]**
7/40 • • Influencing the crystallisation process **[1, 2006.01]**
7/42 • Preventing the absorption of moisture or caking **[1, 2006.01]**

9/00 Nitrates of sodium, potassium, or alkali metals in general [1, 2, 2006.01]
9/02 • Preparation by working-up natural salt mixtures **[1, 2006.01]**
9/04 • Preparation with liquid nitric acid **[1, 2006.01]**
9/06 • Preparation with gaseous nitric acid or nitrogen oxides **[1, 2006.01]**
9/08 • Preparation by double decomposition **[1, 2006.01]**
9/10 • • with ammonium nitrate **[1, 2006.01]**
9/12 • • with nitrates of magnesium, calcium, strontium, or barium **[1, 2006.01]**
9/14 • • of salts of potassium with sodium nitrate **[1, 2006.01]**
9/16 • Purification **[1, 2006.01]**
9/18 • Preparation in the form of shaped products, e.g. granules **[1, 2006.01]**
9/20 • Preventing the absorption of moisture or caking **[1, 2006.01]**

13/00 Compounds of sodium or potassium not provided for elsewhere [2, 2006.01]

15/00 Lithium compounds [2, 2006.01]
15/02 • Oxides; Hydroxides **[2, 2006.01]**
15/04 • Halides **[2, 2006.01]**
15/06 • Sulfates; Sulfites **[2, 2006.01]**
15/08 • Carbonates; Bicarbonates **[2, 2006.01]**
15/10 • Nitrates **[2, 2006.01]**

17/00 Rubidium, caesium, or francium compounds [2, 2006.01]