CHEMISTRY

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 oxycacids 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; 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)

1/00 Oxides or hydroxides of sodium, potassium or alkali metals in general
1/02 . . Oxides
1/04 . . Hydroxides
1/20 . . Preparation by reacting oxides or hydroxides with alkali metal salts
1/22 . . . with carbonates or bicarbonates
1/24 . . . from or via fluorides or silico-fluorides
1/26 . . . Preparation from or via cyano compounds, e.g. cyanides, cyanamides
1/28 . . . Purification; Separation
1/30 . . . by crystallisation
1/32 . . . by absorption or precipitation
1/34 . . . with selective solvents
1/36 . . . by oxidation
1/38 . . . by dialysis
1/40 . . . by electrolysis
1/42 . . . Concentration; Dehydration
1/44 . . . Preparation in the form of granules, pieces, or other shaped products
3/00 Halides of sodium, potassium or alkali metals in general (halides in general C01B 3/00)
3/02 . . Fluorides
3/04 . . Chlorides
3/06 . . Preparation by working up brines; seawater or spent lyes
3/08 . . Preparation by working up natural or industrial salt mixtures or siliceous minerals
3/10 . . Bromides
3/12 . . Iodides
3/14 . . Purification
3/145 . . . [by solid ion-exchangers or solid chelating agents]
3/16 . . by precipitation or adsorption (C01D 3/145 takes precedence)
3/18 . . with selective solvents
3/20 . . . by melting
3/22 . . Preparation in the form of granules, pieces, or other shaped products
3/24 . . . Influencing the crystallisation process
3/26 . . Preventing the absorption of moisture or caking of the crystals
5/00 Sulfates or sulfites of sodium, potassium or alkali metals in general (sulfites in general C01B 17/62)
5/002 . . . Preventing the absorption of moisture or caking of the crystals by additives
5/004 . . . [Preparation in the form of granules, pieces or other shaped products]
5/006 . . . Recovery of sodium sulfate from coagulation baths for the spinning of viscose
5/008 . . . [Preparation of potassium sulfate from alunite]
5/02 . . Preparation of sulfates from alkali metal salts and sulfuric acid or bisulfates; Preparation of bisulfates
5/04 . . Preparation of sulfates with the aid of sulfuric acid or sulfites, e.g. Hargreaves process (pyrosulfites or metabisulfites C01D 5/145)
5/06 . . Preparation of sulfates by double decomposition
5/08 . . . with each other or with ammonium sulfate
5/10 . . . with sulfates of magnesium, calcium, strontium, or barium
5/12 . . Preparation of double sulfates of magnesium with sodium or potassium
5/14 . . Preparation of sulfites (C01D 5/04 takes precedence)
5/145 . . . [Pyrosulfites or metabisulfites]
5/16 . . Purification (C01D 5/145 takes precedence)
5/18  .  Dehydration { (C01D 5/145 takes precedence) }
7/00  .  Carbonates of sodium, potassium or alkali metals in general
7/02  .  Preparation by double decomposition
7/04  .  .  with a fluoride or silico-fluoride (C01D 1/24 takes precedence)
7/06  .  Preparation via sodium or potassium magnesium carbonate
7/07  .  Preparation from the hydroxides
7/08  .  Preparation from or via cyanocompounds of sodium or potassium (C01D 1/24 takes precedence)
7/10  .  Preparation of bicarbonates from carbonates (ammonia soda process C01D 7/18)
7/12  .  Preparation of carbonates from bicarbonates { or bicarbonate-containing product }
7/123 .  .  { by thermal decomposition of solids in the absence of a liquid medium }
7/126 .  .  { Multi-step processes, e.g. from trona to soda ash }
7/14  .  Preparation of sesquicarbonates
7/16  .  Preparation from compounds of sodium or potassium with amines and carbon dioxide
7/18  .  Preparation by the ammonia-soda process (C01D 7/12 takes precedence)
7/22  .  Purification
7/24  .  .  Crystallisation
7/26  .  .  by precipitation or adsorption
7/28  .  .  with selective solvents
7/30  .  .  by oxidation
7/32  .  .  by dialysis
7/34  .  .  by electrolysis
7/35  .  .  Varying the content of water of crystallisation or the specific gravity { (calcination B01J 6/00, F27B) }
7/37  .  .  Densifying sodium carbonate
7/38  .  Preparation in the form of granules, pieces or other shaped products
7/40  .  .  Influencing the crystallisation process
7/42  .  Preventing the absorption of moisture or caking
9/00  .  Nitrates of sodium, potassium or alkali metals in general { (preparation as fertilizers or of fertilizers containing them C05D 5/00) }
9/02  .  Preparation by working-up natural salt mixtures
9/04  .  Preparation with liquid nitric acid
9/06  .  Preparation with gaseous nitric acid or nitrogen oxides
9/08  .  Preparation by double decomposition
9/10  .  .  with ammonium nitrate
9/12  .  .  with nitrates or magnesium, calcium, strontium, or barium
9/14  .  .  of salts of potassium with sodium nitrate
9/16  .  Purification
9/18  .  .  Preparation in the form of shaped products, e.g. granules
9/20  .  Preventing the absorption of moisture or caking
13/00  .  Compounds of sodium or potassium not provided for elsewhere
15/00  .  Lithium compounds
15/005 .  { Lithium hexafluorophosphate }
15/02  .  Oxides; Hydroxides
15/04  .  Halides
15/06  .  Sulfates; Sulfites