Specialised Metal Salts for Laboratory Reagents

The range and assurance manufacturers need
Our clients rely on us to provide specialised and high quality metal-based products for reagents and with decades of experience, we understand how to meet exacting service as well as product standards.

A significant part of the Celtic Chemicals’ product range is manufactured and tested in-house by our highly experienced teams and we are able to develop and supply quantities from 1kg to 100’s of kilogrammes so that our clients can offer the niche products required.

The Manufacturing & Analysis Techniques
Our manufacturing techniques include:
- Precipitation
- Crystallization
- Simple neutralisation & two-stage neutralisation
- Controlled thermal dehydration

Raw materials for production and finished goods are analysed by a range of techniques, including:
- Atomic Absorption Spectrophotometry, with vapour generation
- ICP-OES
- Volumetric Analysis

The Mineral Products

<table>
<thead>
<tr>
<th>Element</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH₄⁺</td>
<td>Ba</td>
</tr>
<tr>
<td>Li⁺</td>
<td>Mg⁺⁷⁵</td>
</tr>
<tr>
<td>Sn⁺⁵⁺</td>
<td>Zn⁺³⁰</td>
</tr>
</tbody>
</table>

The Process
We will work with you to assess your precise requirements and can provide a sample, with full documentation, for your evaluation. Materials are dispatched in accordance with procedures prescribed in our integrated Quality Management System.

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FSSC 22000

FEMAS

IRCA

ISO9001
Specialised Metal Salts for Laboratory Reagents

- Ammonium Citrate Dibasic
- Ammonium Cobalt Phosphate (1 Hydrate & Anhydrous)
- Ammonium Cobalt Sulphate 6 Hydrate
- Ammonium Cupric Chloride 2 Hydrate
- Ammonium Cupric Sulphate 6H2O
- Ammonium Ferric Oxalate 3H2O
- Ammonium Ferric Sulphate 12 Hydrate
- Ammonium Ferrous Sulphate 6 Hydrate
- Ammonium Heptamolybdate 4 Hydrate
- Ammonium Hexachlorostannate (IV)
- Ammonium Iodide
- Ammonium Magnesium Phosphate 6 Hydrate
- Ammonium Nickel Sulphate 6 Hydrate

- Barium Bromate Anhydrous
- Barium Bromide 2 Hydrate
- Barium Chromate
- Barium Manganate 90%
- Barium Selenium
- Barium Tartrate

- Bismuth Citrate
- Bismuth Nitrate 5 Hydrate
- Bismuth Oxide
- Bismuth Subcarbonate
- Bismuth Subgallate
- Bismuth Subnitrate
- Bismuth Subsalicylate
- Bismuth Sulphate
- Bismuth Tri-Iodide

- Calcium Acetate Pure
- Calcium Carbonate (Light & Heavy)
- Calcium Chloride 2 Hydrate
- Calcium Oxalate H2O

- Chromium Chloride 6 Hydrate
- Chromium Nitrate 9 Hydrate
- Chromium Sulphate 4-Hydrate

- Ammonium Cobalt Phosphate (1 Hydrate & Anhydrous)
- Ammonium Cobalt Sulphate 6 Hydrate
- Cobalt Acetate (4 Hydrate & Anhydrous)
- Cobalt Benzoate
- Cobalt Bromide (6 Hydrate & Anhydrous)
- Cobalt Carbonate Powder
- Cobalt Chloride (6 Hydrate & Anhydrous)
- Cobalt Citrate 2 Hydrate
- Cobalt Dihydrogen Phosphate Hydrated
- Cobalt Gluconate 4 Hydrate
- Cobalt Hexamethylenetetramine
- Cobalt Hydroxide
- Cobalt Nitrate 6 Hydrate
- Cobalt Nitrate Solution
- Cobalt Oxalate (2 Hydrate & Anhydrous)
- Cobalt Phosphate (8 Hydrate & Anhydrous)
- Cobalt Sulphamate 4 Hydrate
- Cobalt Sulphate (7 Hydrate & Anhydrous)
- Cobalt Thiocyanate (Hydrated & Anhydrous)

- Copper (II) 2,4-pentanedionate
- Copper (II) 2-ethylhexanoate
- Copper Tetrammine Sulphate 1 Hydrate
- Cupric Acetate (1 Hydrate & Anhydrous)
- Cupric Benzoate
- Cupric Bromide
- Cupric Carbonate
- Cupric Chloride (2 Hydrate & Anhydrous)
- Cupric Formate 4 Hydrate
- Cupric Nitrate 3 Hydrate
- Cupric Oxalate 1/2 Hydrate
- Cupric Oxide
- Cupric Phosphate
- Cupric Sulphate (6 Hydrate & Anhydrous)
- Cuprous Bromide
- Cuprous Chloride
- Cuprous Iodide
- Cuprous Oxide

- Ammonium Ferric Oxalate 3H2O
- Ammonium Ferric Sulphate 12 Hydrate
- Ammonium Ferrous Sulphate 6 Hydrate
- Ferric Nitrate 9 Hydrate
- Ferrous Oxalate Dihydrate
- Ferrous Sulphate (7 Hydrate & Dried)
<table>
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<tr>
<th>Element</th>
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</table>
| Iodine  | I      | 127  | Lead (II) Citrate 3 Hydrate  
|         |        |      | Lead (IV) Oxide  
|         |        |      | Lead 2,4-dihydroxybenzoate  
|         |        |      | Lead Acetate (3 Hydrate & Solution for sugar analysis)  
|         |        |      | Lead Acetophthalate  
|         |        |      | Lead Bromide  
|         |        |      | Lead Carbonate  
|         |        |      | Lead Chloride  
|         |        |      | Lead Chromate  
|         |        |      | Lead II (Oxide & IV Oxide)  
|         |        |      | Lead Iodide  
|         |        |      | Lead Nitrate  
|         |        |      | Lead Salicylate  
|         |        |      | Lead Stannate  
|         |        |      | Lead Sulphate  
|         |        |      | Lead Tartrate  
| Lithium | Li     | 6    | Lithium Acetate Dihydrate  
|         |        |      | Lithium Bromide  
|         |        |      | Lithium Carbonate  
|         |        |      | Lithium Chloride Anhydrous  
|         |        |      | Lithium Citrate 4 Hydrate  
|         |        |      | Lithium Fluoride, 97%  
|         |        |      | Lithium Formate Hydrate  
|         |        |      | Lithium Hydroxide 1 Hydrate  
|         |        |      | Lithium Lactate  
|         |        |      | Lithium Nitrate Anhydrous  
|         |        |      | Lithium Sulphate  
| Magnesium | Mg    | 24   | Ammonium Magnesium Phosphate 6 Hydrate  
|         |        |      | Magnesium Acetate 4 Hydrate  
|         |        |      | Magnesium Bromide (6 Hydrate & Anhydrous)  
|         |        |      | Magnesium Carbonate (Medium Heavy & Heavy)  
|         |        |      | Magnesium Chloride (6 Hydrate & Anhydrous)  
|         |        |      | Magnesium Hydroxide  
|         |        |      | Magnesium Nitrate 6 Hydrate  
|         |        |      | Magnesium Oxide (Granular & Heavy)  
|         |        |      | Magnesium Sulphate (7 Hydrate, Anhydrous & Dried)  
| Manganese | Mn   | 55   | Manganese Acetate (4-Hydrate & Anhydrous)  
|         |        |      | Manganese Bromide (4 Hydrate & Anhydrous)  
|         |        |      | Manganese Chloride 4 Hydrate  
|         |        |      | Manganese Dioxide  
|         |        |      | Manganese Oxalate 2 Hydrate  
|         |        |      | Manganese Nitrate  
|         |        |      | Manganese Sulphate 1 Hydrate Ph Eur  
|         |        |      | Manganese Sulphate 4 Hydrate  
| Molybdenum | Mo | 95   | Ammonium Heptamolybdate 4 Hydrate  
| Nickel | Ni | 59   | Ammonium Nickel Sulphate 6 Hydrate  
|         |        |      | Nickel Acetate 4 Hydrate  
|         |        |      | Nickel Bromide (Hydrated & Anhydrous)  
|         |        |      | Nickel Carbonate  
|         |        |      | Nickel Chloride (6 Hydrate & Anhydrous)  
|         |        |      | Nickel Citrate Hydrate  
|         |        |      | Nickel Formate 2 Hydrate  
|         |        |      | Nickel Gluconate  
|         |        |      | Nickel Glycinate  
|         |        |      | Nickel Lactate 4 Hydrate  
|         |        |      | Nickel Nitrate 6 Hydrate  
|         |        |      | Nickel Oxide (Black & Green)  
|         |        |      | Nickel Sulphate 6 Hydrate  
| Potassium | K   | 39   | Potassium Bicarbonate  
|         |        |      | Potassium Bromate  
|         |        |      | Potassium Bromide  
|         |        |      | Potassium Carbonate Anhydrous  
|         |        |      | Potassium Chloride  
|         |        |      | Potassium Chromate  
|         |        |      | Potassium Citrate  
|         |        |      | Potassium Dichromate  
|         |        |      | Potassium Ferricyanide  
|         |        |      | Potassium Ferrocyanide 3 Hydrate  
|         |        |      | Potassium Permanganate  
| Selenium | Se  | 79   | Sodium Selenate Anhydrous  
|         |        |      | Sodium Selenite Anhydrous  

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Specialised Metal Salts for Laboratory Reagents

- Silver (I) Oxide
- Silver Acetate
- Silver Carbonate
- Silver Chloride
- Silver Citrate
- Silver Iodide
- Silver Nitrate
- Silver Perchlorate Monohydrate
- Silver Sulphate

- Strontium Bromide 6 Hydrate
- Strontium Carbonate
- Strontium Chloride 6 Hydrate
- Strontium Chromate
- Strontium Nitrate

- Stannous Chloride (2 Hydrate & Anhydrous)
- Stannous Oxalate

- Sodium Acetate (3 Hydrate & Anhydrous)
- Sodium Bicarbonate
- Sodium Carbonate Anhydrous NF/EP Fine Granular
- Sodium Carbonate Anhydrous NF/EP Fine Powder
- Sodium Chloride
- Sodium Dichromate Anhydrous
- Sodium Fluoride
- Sodium Molybdate
- Sodium Sulphate Anhydrous
- Sodium Sulphate Anhydrous Granular A.C.S.
- Sodium Sulphite Anhydrous
- Sodium Tartrate 2 Hydrate
- Sodium Tungstate 2 Hydrate
- Tri Sodium Citrate 2 Hydrate
- Tri Sodium Phosphate 12 Hydrate

- Zinc Acetate (2 Hydrate & Anhydrous)
- Zinc Bromide Anhydrous
- Zinc Bromide Solution
- Zinc Carbonate
- Zinc Chloride Anhydrous
- Zinc Formate (2 Hydrate & Anhydrous)
- Zinc Iodide
- Zinc Nitrate 6 Hydrate
- Zinc Oxide
- Zinc Sulphate (1 Hydrate & 7 Hydrate)

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