

# 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

<b>NH4</b> Ammonium	<b>Ba</b> <sup>56</sup> Barium	<b>Bi</b> <sup>83</sup> Bismuth	<b>Ca</b> <sup>20</sup> Calcium	<b>Cr</b> <sup>24</sup> Chromium	<b>Co</b> <sup>27</sup> Cobalt	<b>Cu</b> <sup>29</sup> Copper	<b>I</b> <sup>53</sup> Iodine	<b>Fe</b> <sup>26</sup> Iron	<b>Pb</b> <sup>82</sup> Lead
<b>Li</b> <sup>3</sup> Lithium	<b>Mg</b> <sup>12</sup> Magnesium	<b>Mn</b> <sup>25</sup> Manganese	<b>Mo</b> <sup>42</sup> Molybdenum	<b>Ni</b> <sup>28</sup> Nickel	<b>K</b> <sup>19</sup> Potassium	<b>Se</b> <sup>34</sup> Selenium	<b>Ag</b> <sup>47</sup> Silver	<b>Na</b> <sup>11</sup> Sodium	<b>Sr</b> <sup>38</sup> Strontium
<b>Sn</b> <sup>50</sup> Tin	<b>Zn</b> <sup>30</sup> Zinc								

## 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



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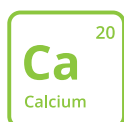
Ammonium Citrate Dibasic  
Ammonium Cobalt Phosphate (1 Hydrate & Anhydrous)  
Ammonium Cobalt Sulphate 6 Hydrate  
Ammonium Cupric Chloride 2 Hydrate  
Ammonium Cupric Sulphate 6H<sub>2</sub>O  
Ammonium Ferric Oxalate 3H<sub>2</sub>O  
Ammonium Ferric Sulphate 12 Hydrate  
Ammonium Ferrous Sulphate 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 Selenite  
Barium Tartrate



Bismuth Citrate  
Bismuth Nitrate 5 Hydrate  
Bismuth Oxide  
Bismuth Subcarbonate  
Bismuth Subgallate  
Bismuth Subnitrate  
Bismuth Subsalsicylate  
Bismuth Sulphate  
Bismuth Tri-iodide



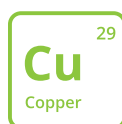
Calcium Acetate Pure  
Calcium Carbonate (Light & Heavy)  
Calcium Chloride 2 Hydrate  
Calcium Oxalate H<sub>2</sub>O



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 (5 Hydrate & Anhydrous)  
Cuprous Bromide  
Cuprous Chloride  
Cuprous Iodide  
Cuprous Oxide



Ammonium Ferric Oxalate 3H<sub>2</sub>O  
Ammonium Ferric Sulphate 12 Hydrate  
Ammonium Ferrous Sulphate 6 Hydrate  
Ferric Nitrate 9 Hydrate  
Ferrous Oxalate Dihydrate  
Ferrous Sulphate (7 Hydrate & Dried)

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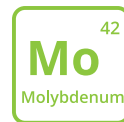
Ammonium Iodide  
Iodine Ph Eur IV  
Potassium Iodate  
Potassium Iodide  
Potassium Periodate 99.5%  
Sodium Iodate  
Sodium Iodide  
Sodium Metaperiodate



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



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



Ammonium Heptamolybdate 4 Hydrate



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



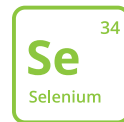
Lithium Acetate Dihydrate  
Lithium Bromide  
Lithium Carbonate  
Lithium Chloride Anhydrous  
Lithium Citrate 4 Hydrate  
Lithium Fluoride, 97%  
Lithium Formate Hydrate  
Lithium Hydroxide 1 Hydrate  
Lithium Lactate  
Lithium Nitrate Anhydrous  
Lithium Sulphate



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



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)



Sodium Selenate Anhydrous  
Sodium Selenite Anhydrous

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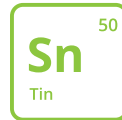
Silver (I) Oxide  
Silver Acetate  
Silver Carbonate  
Silver Chloride  
Silver Citrate  
Silver Iodide  
Silver Nitrate  
Silver Nitrate  
Silver Perchlorate Monohydrate  
Silver Sulphate



Sodium Acetate (3 Hydrate & Anhydrous)  
Sodium Bicarbonate  
Sodium Carbonate Anhydrous NF/EP Fine Granular  
Sodium Carbonate Anhydrous NF/EP Fine Powder  
Sodium Chloride  
Sodium Chromate Anhydrous  
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



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



Stannous Chloride (2 Hydrate & Anhydrous)  
Stannous Oxalate



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)