

# Human Nutrition



## The range and assurance manufacturers need

For over 20 years we have helped our clients meet exacting requirements in the manufacture of supplements for human consumption.

Our clients rely on us to stock a full range of minerals at all times and are confident that our operations remain fully compliant with changing industry regulations.

As well as consistently delivering product excellence, we welcome customer audits of our sites and processes at any time.

## Partnering with the best

Celtic Chemicals exclusively distributes Jost Chemical Co's renowned range of high purity specialty mineral salts throughout the UK and Ireland.

Our partnership with Jost is long-standing and our customers benefit from Jost's ability to provide the highest levels of purity and lot-to-lot consistency.

Products are made under bulk pharmaceutical cGMP's and regulated by the US FDA with stocks held at Celtic Chemicals' onsite facilities.

The high purity Jost products we offer are complemented by products from approved food manufacturing sites around the globe and together these provide an ideal range of organic & inorganic acid mineral salts to help our customers' formulations and product development.



## The Raw Materials

<b>Ca</b> <sup>20</sup> Calcium	<b>Cr</b> <sup>24</sup> Chromium	<b>Cu</b> <sup>29</sup> Copper	<b>I</b> <sup>53</sup> Iodine	<b>Fe</b> <sup>26</sup> Iron	<b>Mg</b> <sup>12</sup> Magnesium	<b>Mn</b> <sup>25</sup> Manganese	<b>Mo</b> <sup>42</sup> Molybdenum	<b>Se</b> <sup>34</sup> Selenium	<b>Zn</b> <sup>30</sup> Zinc
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## Quality Matters

### Working within EU regulations

Our focus is on assisting customers as they adhere to the Food Supplements Directive EU 2002/46/EC and its amendments.





The requirements of EC 1881/2006 - and its amendments EC 629/2008 - set the maximum levels for certain contaminants in foodstuffs, notably Lead, Cadmium and Mercury. Arsenic is also controlled through the Food Safety Act.

### Working outside of the EU

We also provide advice for customers interested in sourcing and working with raw materials that are suitable for use outside of the EU.

## The Process

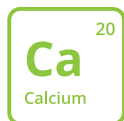
You can rely on our team to work with you to assess your precise requirements and help advise on issues such as solubility and mineral content. A sample for your evaluation, with full documentation, can also be provided on request.

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# Human Nutrition

## The Raw Materials



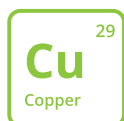
### Calcium Products

Calcium Acetate Pure  
Calcium Carbonate (Light & Heavy)  
Calcium Chloride 2 Hydrate  
Calcium Citrate 4 Hydrate Fine Granular F.C.C.  
Calcium Fumarate Purified Granular  
Calcium Gluconate 1 Hydrate  
Calcium Glycerophosphate  
Calcium Hydroxide FCC, Low Aluminium Powder  
Calcium Iodate Anhydrous  
Calcium L-Methylfolate  
Calcium Lactate 5 Hydrate  
Calcium Malate Anhydrous Powder  
Calcium Phosphate (Di, Tri, Anhydrous & Dihydrate)  
Calcium Succinate 1 Hydrate  
Calcium Sulphate Anhydrous



### Chromium Products

Chromium Chloride 6 Hydrate  
Chromium Chloride Solution  
Chromium Picolinate  
Chromium Polynicotinate  
Chromium Polynicotinate Liquid  
Chromium Sulphate 4-Hydrate



### Copper Products

Copper Glycinate  
Cupric Acetate 1 Hydrate  
Cupric Carbonate  
Cupric Chloride 2 Hydrate  
Cupric Citrate Hemitrihydrate  
Cupric Gluconate U.S.P. XXIII Powder  
Cupric Sulphate 5 Hydrate  
Cupric Sulphate Anhydrous



### Iodine Products

Iodine Ph Eur IV  
Potassium Iodate  
Potassium Iodide  
Sodium Iodide



### Iron Products

Ammonium Ferric Citrate Powder (Brown, Green & Red)  
Ferric Citrate Hydrated  
Ferric Pyrophosphate FCC 24-26% Fe  
Ferrous Citrate Dibasic  
Ferrous Fumarate Powder U.S.P./F.C.C./Ph Eur  
Ferrous Gluconate (Powder & Granular)  
Ferrous Glycinate  
Ferrous Lactate 2 Hydrate (Powder & Granular)  
Ferrous Sulphate 7 Hydrate  
Ferrous Sulphate, Dried



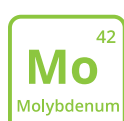
### Magnesium Products

Magnesium Ascorbate  
Magnesium Carbonate (Light, Medium & Heavy)  
Magnesium Chloride 6 Hydrate  
Magnesium Citrate Tribasic Anhydrous U.S.P. Granular  
Magnesium Gluconate Hydrated (Powder & Granular)  
Magnesium Glycerophosphate Powder  
Magnesium Glycinate  
Magnesium Hydroxide  
Magnesium Lactate (2 Hydrate & Anhydrous)  
Magnesium Malate 3 Hydrate Pure  
Magnesium Oxide (Light, Heavy & Granular)  
Magnesium Phosphate (Di, Tri, Powder & Granular)  
Magnesium Sulphate (7 Hydrate, Dried & Anhydrous)



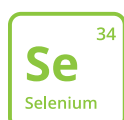
### Manganese Products

Manganese Ascorbate  
Manganese Gluconate 2 Hydrate (Powder & Granular)  
Manganese Glycerophosphate  
Manganese Glycinate  
Manganese Lactate 3 Hydrate Crystal  
Manganese Sulphate 1 Hydrate (Powder, Granular & Fine Powder)  
Tri Manganese Citrate 10 Hydrate Powder



### Molybdenum Products

Sodium Molybdate 2 H2O



### Selenium Products

Potassium Selenate Anhydrous  
Sodium Selenate Anhydrous  
Sodium Selenite Anhydrous



### Zinc Products

Zinc Acetate 2 Hydrate  
Zinc Ascorbate 15%  
Zinc Aspartate 3H2O  
Zinc Carbonate  
Zinc Chloride Anhydrous  
Zinc Citrate 2 Hydrate (Di, Tri, Powder & Granular)  
Zinc Citrate 3 Hydrate  
Zinc Gluconate (Powder & Granular)  
Zinc Glycinate  
Zinc Lactate 2 Hydrate (Powder & Granular)  
Zinc Oxide  
Zinc Picolinate  
Zinc Sulphate (1 Hydrate & 7 Hydrate)