

No 165 Trace Element to Salt Converter

Trace element to salt calculator

Regulation (EC) No. 767/2009 regarding the marketing and use of feed, requires the declaration of the metal salt (for example, copper sulphate) rather than the elemental level (for example, copper).

This creates difficulties because premixture specifications and labels usually detail the elemental level in the final feed. Indeed labels demand the elemental level under the additive legislation (Regulation (EC) No 1831/2003). The metal salt level is not readily available.

Therefore, to facilitate easy conversion of figures we have developed the :

FWTNI trace element to salt converter:

EC No.	Element	Compound	Type	Elemental	Salt
E 4	Copper - Cu	Cupric chelate of amino acids hydrate	Bioplex		0.00
E 4	Copper - Cu	Cupric chelate of amino acids hydrate	Optimin		0.00
E 4	Copper - Cu	Cupric chelate of glycine hydrate	MAAC		0.00
E 4	Copper - Cu	Cupric acetate, monohydrate	-		0.00
E 4	Copper - Cu	Basic cupric carbonate	-		0.00
E 4	Copper - Cu	Cupric sulphate, pentahydrate	-		0.00
E 1	Iron - Fe	Ferrous chelate of amino acids hydrate	Optimin		0.00
E 1	Iron - Fe	Ferrous chelate of amino acids hydrate	Bioplex		0.00
E 1	Iron - Fe	Ferrous sulphate monohydrate	-		0.00
E 5	Manganese - Mn	Manganese chelate of amino acids hydrate	Bioplex		0.00
E 5	Manganese - Mn	Manganese chelate of amino acids hydrate	Optimin		0.00
E 5	Manganese - Mn	Manganese chelate of glycine hydrate	MAAC		0.00
E 5	Manganese - Mn	Manganous oxide	-		0.00
E 5	Manganese - Mn	Manganous sulphate, monohydrate	-		0.00
E 8	Selenium - Se	Sodium selenite	BMP		0.00
3b8.10	Selenium - Se	Selenised yeast inactivated	Selplex		0.00
3b8.11	Selenium - Se	Selenised yeast inactivated	Alkosel		0.00
3b8.11	Selenium - Se	Selenised yeast inactivated	Optimin		0.00
E 3	Cobalt - Co	Basic cobaltous carbonate, monohydrate	BMP		0.00
E 6	Zinc - Zn	Zinc chelate of amino acids hydrate	Optimin		0.00
E 6	Zinc - Zn	Zinc chelate of amino acids hydrate	Bioplex		0.00
E 6	Zinc - Zn	Zinc chelate of glycine hydrate	MAAC		0.00
E 6	Zinc - Zn	Zinc oxide	-		0.00
E 6	Zinc - Zn	Zinc sulphate, monohydrate	-		0.00
E 2	Iodine - I	Calcium iodate, anhydrous	-		0.00
E 7	Molybdenum - Mo	Sodium molybdate	-		0.00

Simply input for each appropriate metal salt the elemental value in the finished feed as provided on the premixture specification confirmation document. The added level of the metal salt is then displayed for direct input into the 'Additive, trace element' section of the compound feed label.

NB The calculations are appropriate to the trace element sources in use at FWTNI. They may not be applicable to other premixture sources.

To use the **FWTNI trace element to salt converter**, and quickly establish the declarable levels of metal salts for your compound feeds, visit the FWTNI website (www.frankwrighttrouw.com), and login or register on the website to request access to the converter within the Technical Publications section. Further information can be obtained from the Frank Wright Trouw technical department on 01335 341102.