



# Micronutrients



Product range and pH stability of  
chelated micronutrients

**Nouryon**



# Chelated Micronutrients - better than magic

High performance chelated micronutrients deliver essential metals to plants, increasing agricultural productivity.

Our micronutrients are fully chelated and completely soluble in water. Some of them can be applied directly to the soil for root uptake, others via foliar sprays.

They are compatible with a wide range of fertilizers and pesticides. Some are also eminently suited for use in soilless cultures (hydroponics), as there is no formation of precipitates within the active pH ranges. The most effective

method of application will depend on location conditions, particularly the pH value of the soil or growth medium.

A sustainable solution, since the protection by the chelating agent results in much lower dose rates compared to traditional, non-chelated micronutrients, avoiding accumulation of metals like zinc and copper in the environment.

## Dissolvine® Micronutrients product range, iron

Product name	Physical form	Chemical formula	Typical iron content %w/w	Sodium free
<b>Iron chelates</b>				
Dissolvine® E-Fe-6	liquid	EDTA-FeOH.K <sub>2</sub>	6.1	yes
Dissolvine® AMFE-54	liquid	EDTA-FeOH.(NH <sub>4</sub> ) <sub>2</sub>	7.7	yes
Dissolvine® E-K-Fe-13	micro-granular	EDTA-FeK	12.6	yes
Dissolvine® E-Fe-13	crystals	EDTA-FeNa.3H <sub>2</sub> O	13.3	low
Dissolvine® D-Fe-3	liquid	DTPA-FeNa <sub>2</sub>	3.1	no
Dissolvine® D-Fe-6	liquid	DTPA-Fe(NH <sub>4</sub> ) <sub>2</sub>	6.1	yes
Dissolvine® D-Fe-7	micro-granular	DTPA-FeNa <sub>2</sub>	6.9	no
Dissolvine® D-Fe-11	crystals	DTPA-FeHNa	11.6	low
Dissolvine® H-Fe-13	micro-granular	HEDTA-FeNa	12.8	no
Dissolvine® X60	micro-granular	HBED-FeK (6.0 o-o Fe)	6.0	yes
Dissolvine® XQ58	micro-granular	HBED-FeK+EDDHA-FeNa (5.8 o-o Fe)	6.0	low
Dissolvine® Q53	micro-granular	EDDHA-FeNa (5.3 o-o Fe)	6.0	no
Dissolvine® Q48	micro-granular	EDDHA-FeNa (4.8 o-o Fe)	6.0	no
Dissolvine® Q40	micro-granular	EDDHA-FeNa (4.0 o-o Fe)	6.0	no
Dissolvine® Q32	micro-granular	EDDHA-FeNa (3.2 o-o Fe)	6.0	no

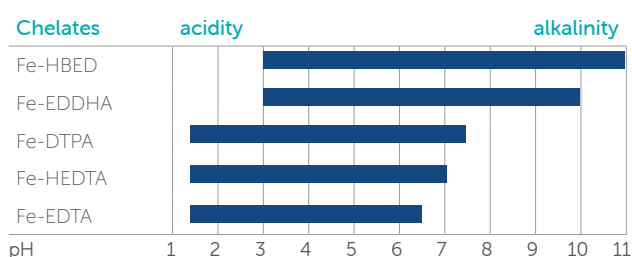




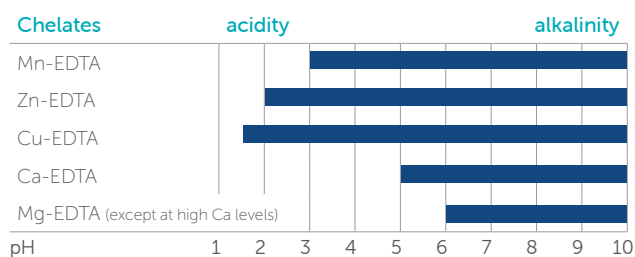
## Dissolvine® Micronutrients product range, other metals

Product name	Physical form	Chemical formula	Typical metal content %w/w	Sodium free
<b>Calcium chelates</b>				
Dissolvine® E-Ca-10	micro-granular	EDTA-CaNa <sub>2</sub> ·2H <sub>2</sub> O	9.7 Ca	no
<b>Copper chelates</b>				
Dissolvine® E-Cu-9	liquid	EDTA-Cu(NH <sub>4</sub> ) <sub>2</sub>	9.0 Cu	yes
Dissolvine® E-K-Cu-14	micro-granular	EDTA-CuK <sub>2</sub>	14.3 Cu	yes
Dissolvine® E-Cu-15	micro-granular	EDTA-CuNa <sub>2</sub>	15.0 Cu	no
<b>Magnesium chelates</b>				
Dissolvine® E-Mg-6	micro-granular	EDTA-MgNa <sub>2</sub>	6.2 Mg	no
<b>Manganese chelates</b>				
Dissolvine® E-Mn-6	liquid	EDTA-MnK <sub>2</sub>	6.2 Mn	yes
Dissolvine® E-K-Mn-12	micro-granular	EDTA-MnK <sub>2</sub>	12.4 Mn	yes
Dissolvine® E-Mn-13	micro-granular	EDTA-MnNa <sub>2</sub>	13.0 Mn	no
<b>Zink chelates</b>				
Dissolvine® E-Zn-9	liquid	EDTA-Zn(NH <sub>4</sub> ) <sub>2</sub>	9.0 Zn	yes
Dissolvine® E-K-Zn-14	micro-granular	EDTA-ZnK <sub>2</sub>	14.5 Zn	yes
Dissolvine® E-Zn-15	micro-granular	EDTA-ZnNa <sub>2</sub>	15.0 Zn	no
<b>Combi products</b>				
Dissolvine® ABC	micro-granular	EDTA combi mixture	see PDL	low
Dissolvine® CXK	micro-granular	EDTA combi mixture	see PDL	low
Dissolvine® ATZ	micro-granular	EDTA combi mixture	see PDL	no
Dissolvine® BSP	micro-granular	EDTA combi mixture	see PDL	no
Dissolvine® APN	micro-granular	DTPA/EDTA combi mixture	see PDL	no
Dissolvine® XMZ	micro-granular	HBED/EDTA combi mixture	see PDL	low

pH stabilities of iron (Fe<sup>3+</sup>) chelates in practical conditions



pH stabilities of non-iron EDTA chelates in practical conditions



Contact us directly for detailed product information and sample request  
website | [nouryon.com/products/micronutrients](https://nouryon.com/products/micronutrients)  
email | [support.micronutrients@nouryon.com](mailto:support.micronutrients@nouryon.com)

# Nouryon

Nouryon is a global, specialty chemicals leader. Markets and consumers worldwide rely on our essential solutions to manufacture everyday products, such as personal care, cleaning goods, paints and coatings, agriculture and food, pharmaceuticals, and building products. Furthermore, the dedication of more than 7,900 employees with a shared commitment to our customers, business growth, safety, sustainability and innovation has resulted in a consistently strong financial performance. We operate in over 80 countries around the world with a portfolio of industry-leading brands. Visit our website and follow us @Nouryon and on LinkedIn.

All information concerning our products and/or all suggestions for handling and use contained herein (including formulation and toxicity information) are offered in good faith and are believed to be reliable. However, Nouryon makes no warranty express or implied (i) as to the accuracy or sufficiency of such information and/or suggestions, (ii) as to any product's merchantability or fitness for a particular use or (iii) that any suggested use (including use in any formulation) will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. The user must determine for itself by preliminary tests or otherwise the suitability of any product and of any information contained herein (including but not limited to formulation and toxicity information) for the user's purpose. The safety of any formulations described herein has not been established. The suitability and safety of a formulation should be confirmed in all respects by the user prior to use. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

Products mentioned are trademarks of Nouryon and registered in many countries.

[nouryon.com](https://nouryon.com)