

Zinc chelate based on EDTA

Actipol EDTA Zn–15 zinc

chelates

Guaranteed content: 15% zinc – EDTA chelate

ARKOP

We enhance nature
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Description and performance

Chelates are complex compounds in which the appropriate organic compound is tied to a metal ion.

Actipol chelates mean:

- Fully chelated microelements
- Immediate availability of microelements by plants
- Perfect solubility
- Stability over a broad range of pH
- Resistance to external factors

Actipol chelates effectively and quickly respond to the plants' actual needs. They are also very effective in the period when uptake of nutrients by the plant's root system is limited (drought, inappropriate pH). **Actipol EDTA Zn-15** zinc chelate is designed for foliar nutrition of plants and fertigation. It covers increased demand for zinc, especially by corn, spring and winter cereals, root plants and poppy.

Zinc and its significance

Zinc plays a significant role in the plant organism in regulation of nucleic acid metabolism. It also plays a role in metabolism of amino acids and proteins; it also directly impacts the creation of growth hormones – auxins and takes part in glucose metabolism. In the case of its deficiency the chloroplast functions are damaged and the intensity of photosynthesis is reduced. A deficit is manifested mainly in the young parts of the plant – formation of a leaf rosette with narrow, small leaves which are pale green and asymmetrical.

Dosage:

Plant	Dose of **Actipol** EDTA Zn–15 [kg/ha]	Number of applications	Working solution [l/h]	Time of application
Corn	0.5–1.5	1–2	200–300	1. Phase 2-4 leaves 2. Then every 7-10 days
Potatoes	1.0	1–2	200–300	1. After sprouting 2. Before flowering
Sugar beet	0.5–1.0	1–2	200–300	1. Before the merging of the rows
Orchards (apple tree, pear tree, gean, cherry, plum, strawberry, raspberry, black currant, blueberry)	1.0–1.5	3–5 every 10–14 days	700–1000	1. During all development phases
Hop	1.0–1.5	1–2	1000–3000	1. After formation of side shoots 2. Before flowering
Other crops	0.5–1.0	1–2	200–300	1. Every 4-8 days after identification of zinc deficiency

Fertigation: From 2 g of **Actipol** EDTA Zn-15 per 1000 liters of water you get a solution of 0.3 mg Zn/liter.

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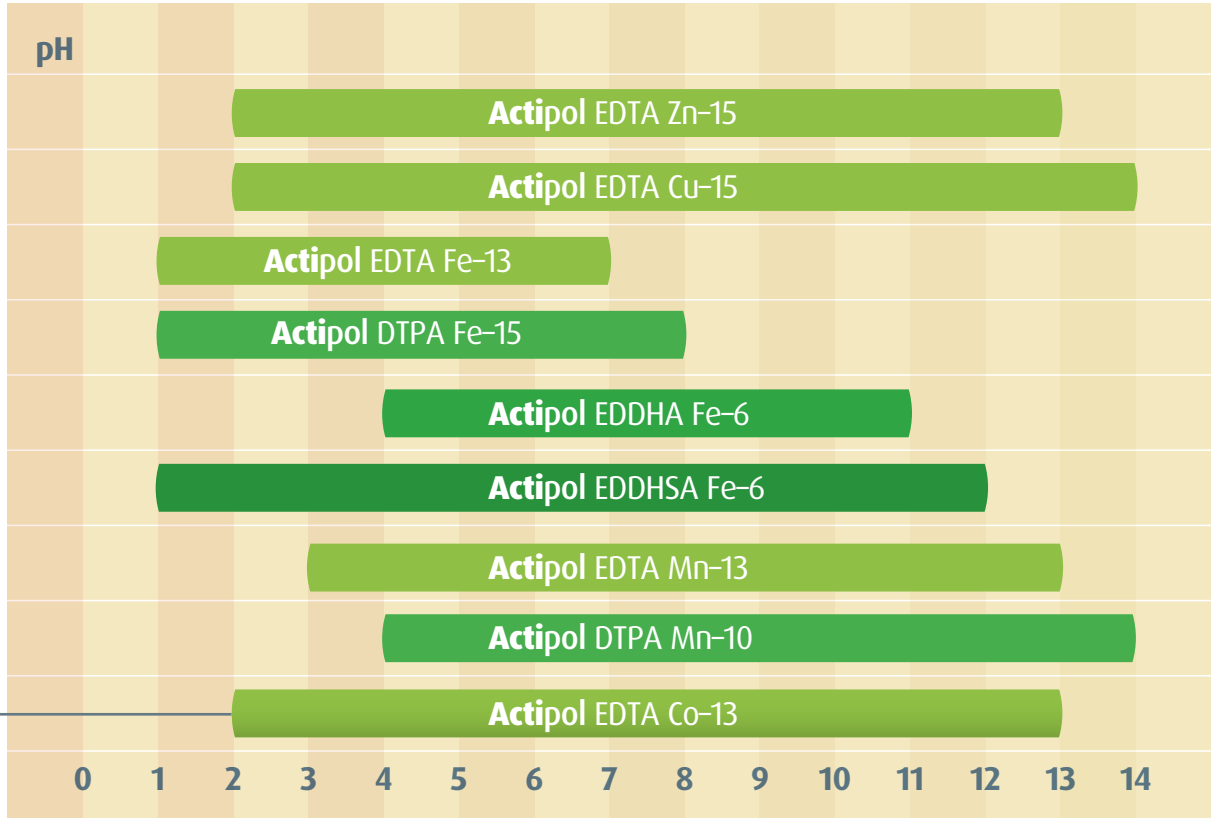
Consequences of zinc deficiency:

- Inhibition of intermodal elongation (shoot rosettes)
- Reduction of leaf lamina
- Chlorosis between leaf nerves in young but fully formed leaves
- Disorders in generative development of flowers, fruits and seeds

Stability of **Actipol**® chelates depending on pH



We also produce other EDTA chelates, e.g. Fe, Mn, Cu, Co, Mg and Ca.

Arkop

We have been building our experience in the fertilizer industry since 1992. Our goal is to manufacture fertilizers making it possible to derive the very best nature has to offer... For this reason, our extensive product range entails the latest developments in biotechnology, in particular top grade chelates (chelation level confirmed by PCBC – Polish Center for Testing and Certification).

As a result of our close long-term cooperation with scientific institutes and universities, we have manufactured proven and effective products. We constantly monitor our production process and incorporate the requisite modifications in striving to continue improving our offer and aligning it to meet customer needs and expectations.

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