

Manganese chelate

chelates

Actipol EDTA Mn-13 DTPA Mn-10

Guaranteed manganese content – 13% and 10%, respectively

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). Manganese chelate is designed for foliar feeding of plants and fertigation. It covers the increased demand for manganese, especially by spring and winter cereals, root plants and fruit trees.

Dosage:

Plant	Dose of **Acti**pol EDTA Mn-13 [kg/ha]	Number of applications	Working solution [l/h]	Time of application
Cereals	0.3–0.8	1–2	200–300	1. Spring- beginning of the tillering phase until the blade formation phase 2. Intensive growth
Potatoes	0.4–1.2	1–2	200–300	1. From 6 to 8 leaves 2. Before flowering
Corn	0.4–1.0	1–2	200–300	1. From 4 to 10 leaves
Sugar beet	0.4–1.0	1–2	200–300	1. 10-12 leaves phase
Rapeseed	0.3–1.8	1–2	200–300	1. Stem formation period 2. Before flowering
Orchards (apple tree, pear tree, gean, cherry, plum, strawberry, raspberry, currant, blueberry)	1.0–1.5	3-5 every 10-14 days	700–1000	During all development phases
Vines	0.5–1.0	1–2	500–1000	1. Shoot development period 2. Inflorescence formation phase, until the flowering phase
Vegetables	0.5–1.1	1–3	300–600	1. From 5 weeks after planting the seedlings 2. Head formation
Other	0.3–0.8	1–2	200–300	1. When deficit of the component is identified

Fertigation: From 5 g of **Actipol** EDTA Mn-13 per 1000 liters of water you get a solution of 0.65 mg Mn/liter.

In the case of application of **Acti**pol DTPA Mn-10, it is recommended to increase the dose of the fertilizer by 25%.

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Actipol Mn Manganese

chelates

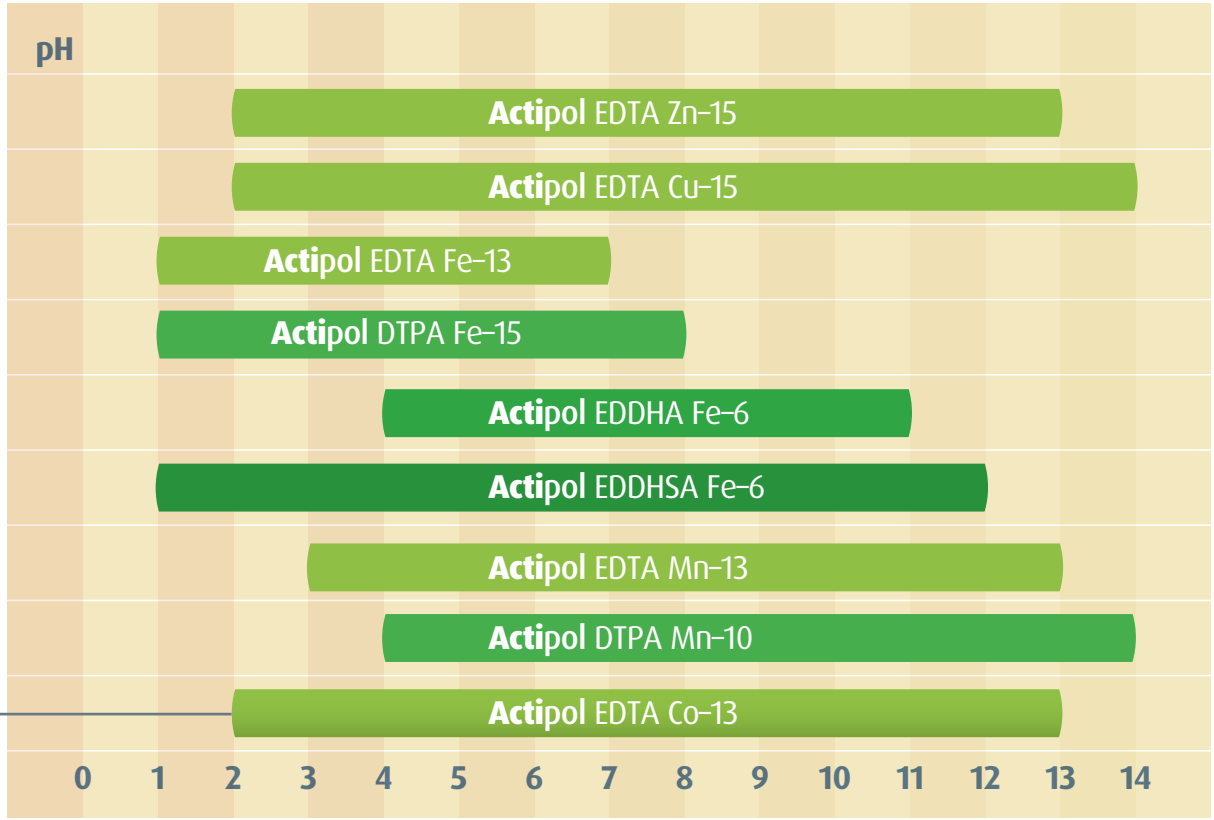
Manganese and its significance

Manganese is a regulator and activator of growth; it also activates some enzymes. It prevents chlorosis and regulates proper development of plants and roots. It determines the appearance of the plant.

Consequences of manganese deficiency:

- speckled chlorosis
- impeded plant growth
- leave yellowing and drying.

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



We also manufacture other EDTA chelates, e.g.: Zn, Fe, 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.

EC FERTILIZER

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