

presents Triacontanol

Water-soluble Triacontanol for professional plant production

For distributors, agriculture and B2B partners

Challenges in professional crop production

Rising performance pressure meets higher demands for sustainability and quality.

Professional plant production is under increasing performance pressure. Crops need to remain vigorous, resilient and high-yielding while natural and sustainable solutions are becoming increasingly important.



Producing sustainably

Increasing demand for natural, biologically compatible solutions.

Strengthening vitality

Healthy development and balanced crop management.

Improving yield stability

Expected market performance under fluctuating conditions.

What is Triacontanol?

Classification of the active substance.

Triacontanol is a naturally occurring fatty alcohol. In scientific literature, Triacontanol is described as a natural growth stimulant and associated with positive effects on growth, vitality and plant development processes.

$C_{30}H_{62}O$ Described in plant waxes and cuticle.



Scientific classification

Evidence-oriented communication without exaggerated performance claims.

International studies have examined the effects of Triacontanol on plant growth and yield parameters for years. Depending on crop, dosage and application conditions, results show positive effects.

01 Ries et al., Science, 1977

Growth

Triacontanol: a new naturally occurring plant growth regulator

Link to study

02 Shaistul Islam, PMC, 2020

Yield parameters

Triacontanol as a dynamic growth regulator for plants under diverse environmental conditions

Link to study

03 Verma et al., JAFR, 2022

Physiology

The Effect of the Stress-Signalling Mediator Triacontanol on Biochemical and Physiological Modifications in Dracocephalum forrestii Culture

Link to study

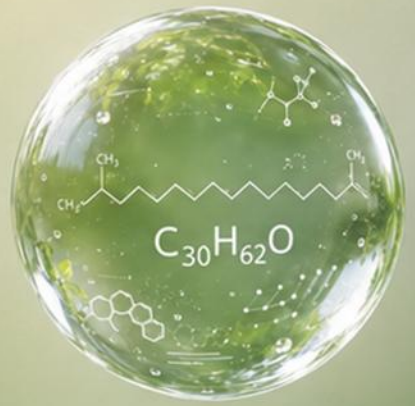
Green Vain combines the scientific approach with a practical water-soluble formulation.



The USP – makes Triacontanol water-soluble

Flexibility for professional application.

Multiple detailed studies demonstrate that Triacontanol, as a natural growth stimulant, can support plant growth processes, vitality and yield stability, and may enable significant growth or yield increases of over 50% when used properly.



Because in the past it was not possible to liquefy Triacontanol free of harmful substances, GREEN VAIN has developed a special process that allows the active substance to be liquefied on a water basis without using critical solvents such as chloroform, etc.
This allows the active substance to be used practically by spraying or via irrigation water — a flexible solution for professional use.

Our Triacontanol was developed for sustainable use, is, according to current knowledge, gentle on bees and can — subject to the respective organic guidelines and input specifications — be used in organic cultivation systems.

Practical application

Two practical application routes for professional cultivation systems.



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Spraying

Flexible supplement for various crops and professional production systems.

Via irrigation water

Can be integrated into existing irrigation and nutrient strategies.

The solution: Triacontanol

Natural growth stimulant for professional use.



Productivity & dosage – explained practically

Plant	Dosage* (ml/L)	Interval	When to Apply
Tomato	0.50 – 1.00	Every 10–14 days	After establishment, before flowering, at fruit set
Cucumber	0.50 – 1.00	Every 7–10 days	Seedling stage, before flowering, fruit formation
Lettuce	0.30 – 1.00	1–2 applications	Early leaf growth
Onion	0.50	Every 14 days	Vegetative growth stage
Banana	1.00	Every 10–14 days	Strong leaf growth
Grape	0.50 – 1.00	Every 14 days	Before flowering and fruit development
Apple	1.00	2–3× per season	After leaf development and before flowering
Orange	0.50 – 1.00	Every 14 days	Growth and flowering stage
Rice	0.50 – 1.00	Every 14 days	Tillering and before panicle formation
Corn	0.50 – 1.00	Every 10–14 days	Early growth to pre-flowering
Roses	0.50 – 1.00	Every 10–14 days	Growth and bud stage
Sunflower	0.50 – 1.00	Every 14 days	Early growth and pre-flowering
Hydroponics	0.20 – 0.50	Every 7–14 days	During active growth
Cannabis	0.30 – 0.80	Every 7–10 days	Vegetative stage and early flowering

*Guideline values; always adapt the final dosage to product concentration, crop, growth stage and plant.
The optimal result of this product also depends on the respective environmental conditions and soil properties.

Benefits for professional users

Clearly grouped benefits – formulated responsibly.

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Plant vitality

Supports vitality and uniform development.



Yield performance

Under suitable conditions, supports enhanced yield development under the relevant environmental and cultivation conditions.



Flexible application

Can be applied via water and foliage.



Bee-friendly

Suitable for responsible plant production.



Free from toxins

Natural composition — free from synthetic chemicals, gentle for distributors, farmers and end consumers.



B2B relevance

Relevant for distributors, agriculture and professional plant production, as well as the care and maintenance of green spaces, sports grounds and parks.

Water-soluble – Practical – Professional

Why GREEN VAIN AFRICA?

Trust through specialization, quality and professional support.

Specialization

Innovative plant solutions for professional users.

Quality

Our product is subject to a high quality standard and regular laboratory testing.

Sustainability

Natural product positioning with suitability for organic cultivation
and resource conservation, with no negative effects on soil and the environment, even with continuous use.

Consulting

Support for distributors, sales partners and professional users.



GREEN VAIN AFRICA

- Triacontanol

Water-soluble – Practice-oriented – Professional



Talk to us about application opportunities, distribution partnerships and professional application concepts.

We are constantly working to improve the quality of our products.

Contact / Representative / Website

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