



**ACFA**

# COMPOSTED SOIL IMPROVER from the AGRI-FOOD CHAIN SCRAPS

The composted soil improver from the agri-food chain scraps  **econat**<sup>®</sup> is a specific compost used in agriculture and it is made from the cuttings, prunings and bio-digestate which is created by the anaerobic biogas production process by Caviro Extra and by agri-food sewage sludge.

The composted soil improver originates in the natural decomposition of the organic matter which is transformed through a bio-oxidation process.



# COMPOSTED SOIL IMPROVER from the AGRI-FOOD CHAIN SCRAPS



## PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Mean Value
Moisture (%)	< 50%
pH	7,5 ÷ 8,5
Total organic carbon (% d.m.)	23 ÷ 33
Humic and fulvic carbon (% d.m.)	7,1 ÷ 8,5
Total nitrogen (% N d.m.)	1,4 ÷ 2,5
Organic nitrogen (% N d.m.)	1,3 ÷ 2,5
Organic nitrogen (% d.m. N/N tot)	81 ÷ 100
C/N ratio	10 ÷ 18
Salinity (meq/100g d.m.)	16 ÷ 57
Phosphorus (% d.m. P <sub>2</sub> O <sub>5</sub> )	0,8 ÷ 2,3
Potassium (% d.m. K <sub>2</sub> O)	0,6 ÷ 1,2



## Production process

Composting begins with the mixing of the matrices which are placed in flooring and turned over periodically.

The turning spontaneously triggers the aerobic fermentation in which any pathogens are inactivated by the controlled temperatures generated by the process itself.

At the end of the thermophilic phase, the curing phase begins and the product is stored in heaps to end the natural stabilisation and humification process of the organic matter.

To prepare the product for selling, the compost is sifted at 20/30 mm for better spreading with a traditional manure spreader.

The final product is dark brown in colour, has the consistency of manure and the typical smell of composted products, but not persistent. The composted soil improver from the agri-food chain scraps **econat**® is obtained by enhancing the biodegradable scraps exclusively from the agri-food industry, which is transformed into an eco-sustainable product for modern agriculture, increasingly inclined to reduce the use of synthetic fertilisers.



## How to use it

The composted soil improver from the agri-food chain scraps **econat**®, besides providing nutrients and high-quality organic matter to the soil, it increases the water retention capacity and improves the microbiological processes of the soil.

This type of compost can be used with any type of crop and it is particularly suitable for the preparation of soils in the pre-planting phase in orchards, vineyards and arable lands, making

the soil soft and at the same time rich in nutrients, in order to provide a correct rooting and development of the root system. Furthermore, it is an excellent fertiliser for all those arboreal and herbaceous crops grown on particularly impoverished, loamy and sandy soils.

The composted soil improver from the agri-food chain scraps **econat**® is sold loose.



## Recommended dose:

Parameter	Doses	Unit
<b>Vineyard:</b>	3 – 6	t/ha
<b>Orchard:</b>	10 – 12	t/ha
<b>Actinidia:</b>	12 – 15	t/ha
<b>Extensive:</b>	30*	t/ha

The above-mentioned doses refer to lands with poor organic matter.

\*verify doses in vulnerable areas



ACFA **econat**® has obtained the C.I.C. Quality Compost Premium Brand



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