

# Nouryon

Holland

البياسين الزراعية  
ALYASEEN AGRI

## Dissolvine Manganese

Mn 13%

**Fast and immediate treatment  
For manganese deficiency**



### Introduction :-

Dissolvine Manganese 13 is a stable and easily soluble formula in water. It contains manganese in the form of chelated EDTA, which makes it easily absorbed by the roots and leaves of the plant. It also accepts mixing with most types of fertilizers, as it is included in various fertilization programs. Dissolvine Manganese 13 is used to prevent and treat manganese deficiency in vegetables, field crops, fruit trees and ornamental plants. It is also suitable for hydroponic farms.

The manganese element is chelated with a EDTA technique which makes it resist sedimentation and washing.

Dissolvine Manganese can be used by spraying or through the soil with different fertilization programs. It is preferable to spray on the leaves in case a quick treatment is desired for manganese deficiency, as it is easily absorbed even in alkaline soil.

## Symptoms of manganese deficiency in different crops



**Lettuce**



**Cauliflower**



**Citrus**



**Tomato**



**Cucumber**



**Potato**



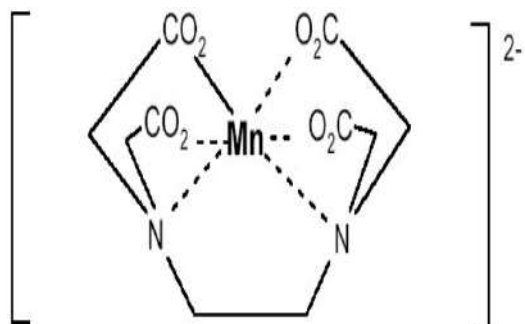
**Grapes**



**Pepper**



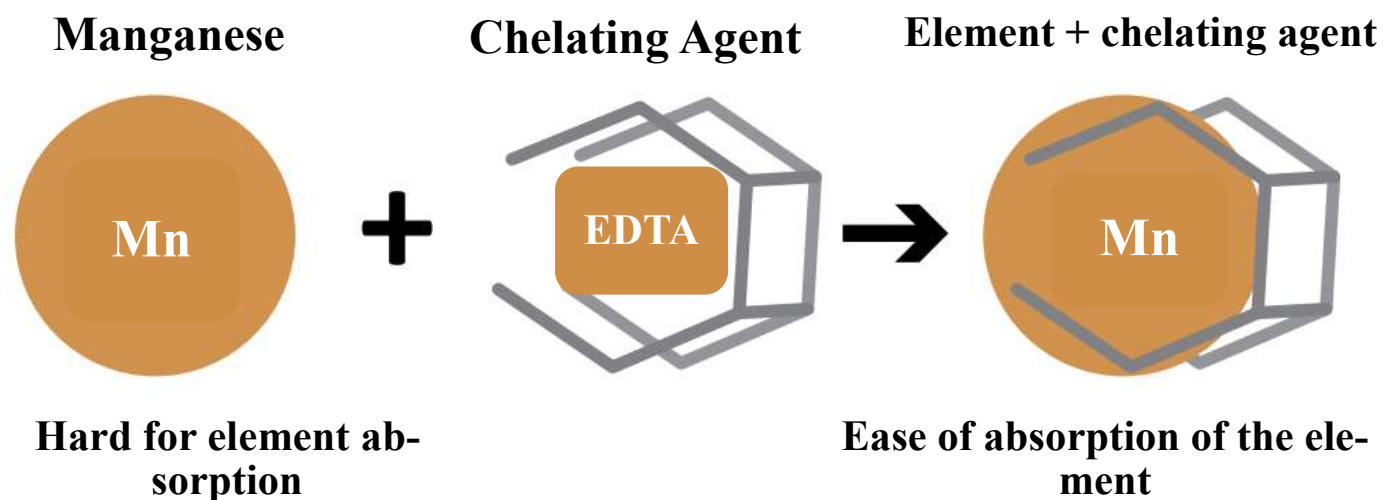
**Wheat**



### Name and chemical form:

$\text{Na}^+ \text{Na}^+$  Ethylenediaminetetraacetic acid manganese-disodium complex; **EDTA-MnNa<sub>2</sub>**

### The importance of chelating :-



### Composition :-

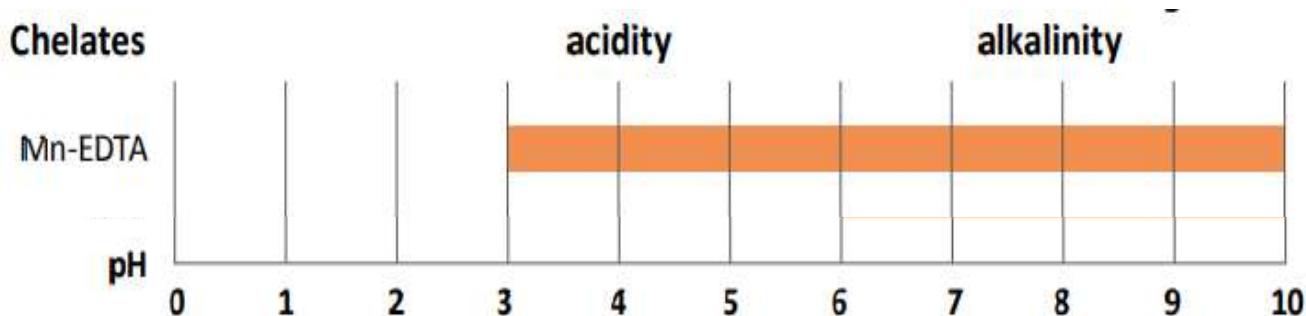
Mn	Chelated Mn EDTA	PH	Water solubility	Color
%12.8	%12.8	7 - 6	1.2 Kg/L	Off-White

## Usage recommendations :-

- 1) Dissolvine Manganese can be used by spraying on shoots or through the soil. It is preferable to spray on the leaves in case a quick treatment is desired for manganese deficiency, or if its use through the soil is costly or difficult due to soil problems.
- 2) Preventive spraying is done at the beginning of the agricultural season when the leaves begin to form.
- 3) As for the therapeutic spraying, it is done in the early stages of the signs of deficiency of the element on the leaves, and the use of manganese Dissolvine is repeated according to the need and according to what is clear in the usage schedule.
- 4) To avoid burning effects on leaves and fruits, avoid spraying during periods of high temperature
- 5) Avoid spraying during flowering period.
- 6) To improve coverage on papers, it is preferable to add a spreader and adhesive.
- 7) It is preferable to add it before or at the beginning of spring growth, and it can be used when cases of element deficiency appear.
- 8) It has no harmful effect if used according to recommendations and recommended doses.
- 9) It accepts mixing with most agricultural chemicals. In case of uncertainty, it is used separately.
- 10) Take into account not to mix Dissolvine Manganese with concentrated nitric or sulfuric acid.
- 11) When mixing manganese Dissolvine Manganese with other chemicals, it is noted that there is no delay in spraying the mixture for long periods and that the spraying process be accelerated.

## PH Range for Mn :-

Dissolvine Manganese has a wide range of alkalinity and acidity, which makes it suitable for all types of agricultural soils  
It have ranges from 3 to 10.



## Application :-

Crop	Dose	Time of Application
Wheat - Rice	2 - 4 Kg / 1000 L / season	In the branching stage and repeated before expelling the spikes
Corn	2 - 4 Kg / 1000 L / season	10days before flowering and repeat when filling the grains
Tomato-Pepper-Eggplant-Cucumber-Watermelon-Melon-Squash-Strawberry	150 - 200 g / 100 L (1 - 2 Kg / Hectare as soil application)	The first treatment is when an average vegetative group is formed, then the treatments are repeated 3 times, with a difference of 10 days between the treatment and the second
Potato	2 - 4 Kg / 1000 L / season	The first treatment is during vegetative growth, then at the beginning of tuber formation, then the treatment is repeated 3 times by a week difference
Carrots-sugar beets-potatoes	2 - 4 Kg / 1000 L / season	Spray in the vegetative growth stage, then repeat at the beginning of the roots swelling, then repeat after 15 days
Peach-apple-pear-apricot	150 - 200 g / 100 L	The first treatment after the fruit-set complete then repeated 4 times with interval of one week
Citrus-guava-banana-mango	150 - 200 g / 100 L	The first treatment is during the formation of vegetative growths, and it is repeated after the fruit-set 4 times
Grapes	150 - 200 g / 100 L	First treatment after fruit-set complete then repeat every 10 days

## Packing :-

**Dissolvine Manganese available in 1 & 25 Kg**