

*The latest  
revolution  
in plant performance*










# **SANGRALINE<sup>®</sup>**

## **POTASSIUM NITRATE**

### *Science shows that plants need iodine*

The application of Sangral<sup>®</sup>ine potassium nitrate conveniently and adequately ensures the iodine supply to fertigated crops in order to maximize crop yield and quality, and improves plant resilience to environmental stress.

-  Improved root growth
-  Optimal nitrogen metabolism
-  Improved canopy development and branching
-  Optimal photosynthesis
-  Improved tolerance to oxidative stress
-  Improved flowering and fruit quality
-  Improved calcium concentration in the fruit and better shelf life



SQM EUROPE N.V.  
Houtdok-Noordkaai 25a  
2030 Antwerpen – Belgium

Tel: +32 3 203 97 00  
E-mail: spn-emea@sqm.com

[sangral.com](http://sangral.com)

# SANGRAL<sup>®</sup>INE POTASSIUM NITRATE

## Potassium An essential nutrient for yield and quality

- Promotes the production of proteins
- Promotes photosynthesis
- Intensifies the transport and storage of carbohydrates
- Improves uptake efficiency of N fertilizers
- Improves water use efficiency
- Promotes lycopene synthesis

## Nitrate The preferred nitrogen source

- Non-volatile
- Promotes the uptake of cations (K<sup>+</sup>, Ca<sup>++</sup>, Mg<sup>++</sup>)
- Nitrate is readily absorbed by the plant
- Nitrate limits the uptake of chloride
- Efficient conversion to amino acids in the leaves

## Benefits of Sangral<sup>®</sup>ine Potassium Nitrate:

<b>Root growth</b>	<ul style="list-style-type: none"> <li>• More and better developed primary and secondary roots</li> <li>• Improved active uptake of water and nutrients</li> </ul>
<b>Nitrogen conversion</b>	<ul style="list-style-type: none"> <li>• Optimized conversion of nitrate to proteins</li> <li>• Reduced cell damage by reactive oxidized nitrogen forms</li> </ul>
<b>Plant growth (above ground)</b>	<ul style="list-style-type: none"> <li>• Increased growth rate of above ground biomass</li> <li>• Increased yield</li> <li>• Earlier harvest</li> <li>• Improved stem branching for a better interception of light</li> </ul>
<b>Photosynthesis</b>	<ul style="list-style-type: none"> <li>• Higher concentration of chlorophyll</li> <li>• Better conversion of solar energy to chemical energy</li> <li>• Increased conversion of CO<sub>2</sub> to sugars</li> </ul>
<b>Tolerance to abiotic stress</b>	<ul style="list-style-type: none"> <li>• Higher level of antioxidants like vitamin C and polyphenols</li> <li>• Mitigating loss of production from adverse environmental conditions</li> </ul>
<b>Flowering and fruit quality</b>	<ul style="list-style-type: none"> <li>• Better fruit set, leading to more uniform fruit size</li> <li>• Better colour and earlier ripening of fruits with a higher sugar content</li> </ul>
<b>Fruit rot and shelf life</b>	<ul style="list-style-type: none"> <li>• Less fruit rot and enhanced shelf life by increased Ca concentration in the fruits</li> <li>• Improved water transport by better photosynthesis and root function, increases translocation of calcium to the fruits</li> </ul>

## Properties of Sangral<sup>®</sup>ine Potassium Nitrate



Sangral<sup>®</sup>ine Potassium Nitrate is an indispensable component in well-balanced nutrition programs for fertigation of crops, grown in soil or hydroponic systems.

Sangral<sup>®</sup>ine Potassium Nitrate ensures an adequate supply of iodine in the nutrient solution.

### Specifications of Sangral<sup>®</sup>ine Potassium Nitrate

Nitric nitrogen (N-NO <sub>3</sub> )	13,7% min
Potassium oxide (K <sub>2</sub> O)	46,3% min
Solubility (g/l at 20°C)	316
Insolubles	< 0,02%
EC (1 g/l at 25°C, in mS/cm)	1,35
Colour	white

Ask your local SQM agronomist for a specialty plant nutrition programme in accordance with your local needs and requirements.

### DISCLAIMER

All information is given to the best of SQM's knowledge and is believed to be accurate. Your conditions of use and application of the suggested products and recommendations are beyond our control. There is no warranty regarding the accuracy of any given data or statements. SQM specifically disclaims any responsibility or liability relating to the use of the suggested products and recommendations and shall under no circumstances whatsoever, be liable for any special, incidental or consequential damages which may arise from such use.



SQM EUROPE N.V.  
Houtdok-Noordkaai 25a  
2030 Antwerpen - Belgium

Tel: +32 3 203 97 00  
E-mail: spn-emea@sqm.com

sangral.com