

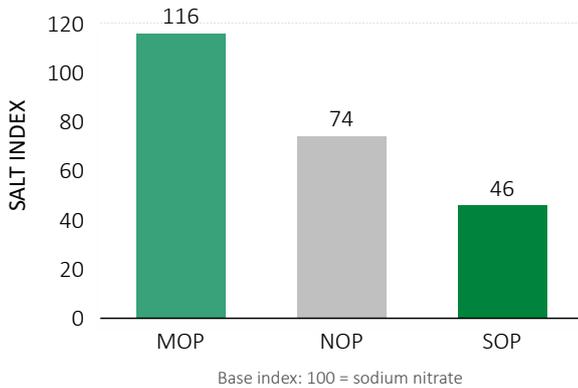


# Sustainable water-soluble grade of SOP with the highest quality standards

## SOLUPOTASSE®: A MORE SUSTAINABLE FORM OF POTASSIUM

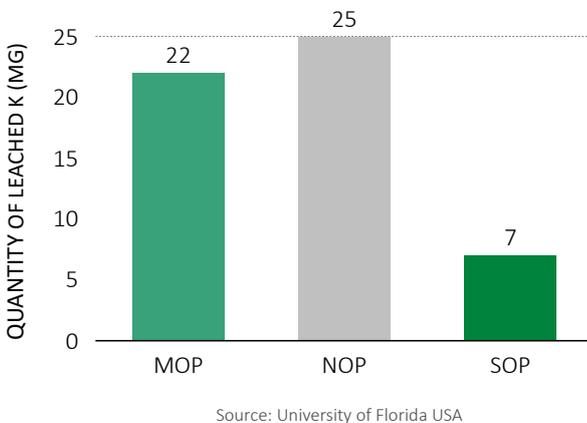
With SoluPotasse®, Tessenderlo Kerley’s flagship SOP product, growers can make the switch to a more sustainable high-tech agriculture as it is a low chloride and nitrate free potassium source.

### SALT INDEX OF MAIN POTASH FERTILIZERS



- SOP improves fruit yield and quality, as well as resistance to storage and transport.
- SOP has a low chloride content avoiding soil salinity and improving water management.
- SOP helps to lower the pH level at the root surface, improving the availability of phosphorus, iron and many other micronutrients.
- In acidic soils, SOP reduces cation leaching and is considerably less prone to leaching than other K fertilizers.
- SOP contains the important secondary nutrient sulfur which is a key constituent of amino acids and proteins and is also required for photosynthesis.

### LEACHING OF POTASSIUM SOURCES IN SANDY SOIL



Our SoluPotasse® is developed for fertigation in open field and greenhouses (as it has very low levels of heavy metals and insoluble materials, and has high solubility, dissolving rapidly and completely) to help support the enhancement of nutrient use efficiency (precision agriculture) and lower water consumption.



## SUSTAINABILITY AT THE CORE OF OUR EXISTENCE

SoluPotasse® is produced via the Mannheim process at Tessenderlo Kerley International in Ham, Belgium, where circularity and recycling are part of our DNA.

- We upcycle sulfur from local refineries.
- We produce a large quantity of low carbon electricity, equivalent to the energy consumption of > 30.000 households.
- We valorize our HCl by-product in the production of water purification chemicals.
- We make optimal use of inland waterways for in- and outbound transport, improving safety on the road and reducing carbon emissions.

Our continuous efforts to decarbonize have resulted in Tessenderlo Kerley having one of the most competitive SOP carbon footprints in the world. Our Mannheim process has a carbon footprint of almost 30% less than the average global SOP produced by Mannheim (source Ecoinvent database).

### CO<sub>2</sub> EMISSIONS SOP (CRADLE-TO-GRAVE PRODUCT CARBON FOOTPRINT, EXCL. USE PHASE)



Product Carbon Footprint performed with the support of South Pole and 3<sup>rd</sup> party verified.

## CONTINUOUSLY INVESTING TO LOWER OUR CLIMATE IMPACT

We have multiple initiatives running, aimed at reducing the climate impact of our SOP e.g., farmer education, eco-friendly packaging, sustainable procurement, optimizing the energy mix of our muffle furnaces....

**“We are happy that our continuous efforts to optimize our production processes pay off and put us at the top of our industry in terms of sustainability.”**

Jeroen Van Cauwenbergh  
Technology Director Tessenderlo Kerley International

