SoluPotasse® for fertigation

SoluPotasse® has all the necessary characteristics to be ideal for fertigation. It is a pure, highly concentrated, fully soluble fertilizer that is easy to handle.

When used for fertigation, we recommend that SoluPotasse® is dissolved first, before adding any other fertilizers to the solution. With very alkaline water *(pH > 8),* we recommend first acidifying the solution before adding the SoluPotasse®.

The frequency of SoluPotasse® application depends on the soil type - light textured soils need more frequent, smaller doses than heavier soils with a high fixation capacity.

SoluPotasse® as a foliar spray

When used as a foliar spray, SoluPotasse® has proved to be highly efficient in curing, or preventing, potassium deficiency, as well as improving the quality of fruit and vegetables. Foliar sprays containing SoluPotasse® should be applied during the evening or early morning when the crops are in a turgid state.

Typical application as a foliar spray

	Timing	*Number of applications*	*Concentration*
Vegetables *(especially root and tuber crops)*		3 to 5	5 to 10 kg/in min. 300 l/ha of water
Fruit trees	After flowering	3 to 5	7 to 12 kg in min. 250-300 l/ha of water
Grapes	After flowering	3 to 5	5 to 10 kg in min. 250 l/ha of water

For all uses of SoluPotasse®, we highly recommend the preparation of a trial mixture, to check compatibility prior to any large scale application.

Technical characteristics

SoluPotasse® is available in bagged form, either in 25 kg bags or 1 ton big bags.

Typical SoluPotasse® specifications

Average K_2O	50.9%
Average SO_4	55.8%
Average Cl	0.6%
Sieve Analysis	85% < 0.30mm
Bulk density	1.40 (*Struck*)
	1.10 (*loose*)
Angle of repose	40°

Imported and distributed by :

Tessenderlo Group Fertilizers
giving nature a helping hand

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Member of SOPIB Sulphate of Potash Information Board

TESSENDERLO GROUP

SOLUPOTASSE®

THE SOLUBLE SOP FERTILIZER FOR FERTIGATION AND FOLIAR APPLICATION

TESSENDERLO GROUP

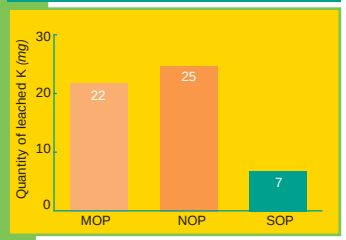
All the benefits of Tessenderlo's SOP

SoluPotasse®, Tessenderlo Group's soluble SOP *(sulphate of potash),* provides one of mildest forms of the important plant nutrient, potassium. The fertilizer offers a number of important benefits over other sources of potassium, which enable it to help produce high quality crops with maximum export value, as well as to protect the environment.

- **potassium and sulphur in a readily available form** - SoluPotasse® contains a minimum of 50.5% K_20 *(42% K)* and 18% sulphur. Intensive cropping combined with limited sulphur replacement has created an increasing sulphur deficiency in some soils. SoluPotasse® ensures optimum uptake of both potassium and sulphur *(as sulphate)*.

- **equal performance in alkaline or acidic soils** - in alkaline and salt-affected soils, SoluPotasse® helps to lower the pH level at the root surface. This improves the availability of phosphorus, iron and most other micronutrients. In acidic soils *(mainly light or sandy)*, SoluPotasse® reduces cation leaching, as well as the risk of potassium loss. SoluPotasse® is considerably less prone to leaching than other potash fertilizers, ensuring that potassium is not lost to the plant.

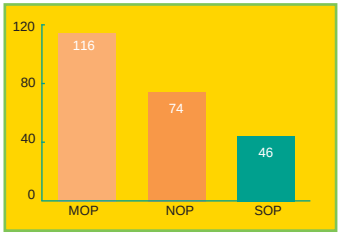
Leaching of potassium sources in sandy soil *(Univ. of Florida, USA)*



- **virtually no chloride** - chloride makes a significant contribution to soil salinity. It is a direct threat to a variety of cash crops with poor chloride tolerance. An excess can be detrimental to the quality of many crops. Application of 1 ton of MOP *(muriate of potash)* adds almost half a ton of chloride to the soil.

- **extremely low salt index** - salinity can destroy agricultural land by seriously reducing water quality in arid and semi-arid regions. Of the three most common potash fertilizers, SoluPotasse® has by far the lowest salt index and is the best product to use in areas at risk from salinity.

Salt index of main potash fertilizers *(Base index: 100 = sodium nitrate)*



- **improved fruit and vegetable quality** - use of SoluPotasse® gives high quality produce with outstanding flavour. The fertilizer also improves yield and, in many cases, the size and consistency of the produce. Most fruit and vegetables treated with SoluPotasse® contain more pigments, giving a better colour and appearance. They also have an increased sugar, acid and juice content, which results in better flavour and scent.

Furthermore, SoluPotasse® has been shown to enhance resistance to disease, also contributing to yield increases and improved appearance.

- **enhanced nutritional value** - SoluPotasse® has a positive effect on the plant's production of vitamins, starch and sugar, the basic factors for high nutritional value. This will, more than ever, help secure the value of the crop.

- **increased durability** - not only does SoluPotasse® improve the quality and nutritional value of produce, it also provides firmer fruit and vegetables with a better resistance to bruising. SoluPotasse® can also increase the suitability of fruit and vegetables for canning or processing.

- **a nitrogen-free source of potassium** - the problem of nitrates in water sources and in fruit and vegetables makes it increasingly important for growers to match the exact nitrogen input to the requirement of the crop. Evidence suggests that an excessive nitrate supply when the fruit is forming can have a detrimental effect on quality. SoluPotasse® provides a nitrogen-free source of potash that allows growers to develop fertilization programmes that match crop requirements.

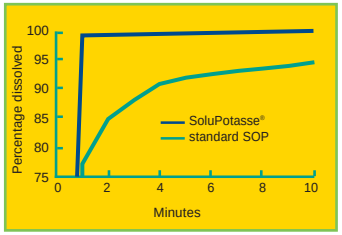
Ideal for fertigation and foliar application

SoluPotasse® offers a number of important benefits for fertigation and foliar application:

- **fast-dissolving, completely soluble SOP** - SoluPotasse® is a fine white powder which dissolves much more rapidly than other SOP fertilizers and leaves no residue. At 20°C *(68°F),* SoluPotasse® only takes a few minutes to dissolve at a concentration of 100g/l, the highest recommended practical dose.

To obtain the optimum fertilizer solution we recommend that SoluPotasse® is first dissolved in a tank at least two thirds filled with water.

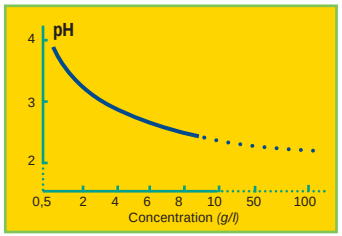
Dissolution speed of SoluPotasse® versus standard SOP



The dissolution time depends on the stirring technique used, as well as the quality of the water. Continuous stirring, combined with use of tepid water, will speed up the dissolution of SoluPotasse® considerably.

- **lower pH solution** - by lowering the pH, SoluPotasse® helps improve the availability to the plant of phosphorus, iron and most other micronutrients. When used for fertigation, SoluPotasse® also prevents drippers from clogging and helps keep micro-irrigation systems clean.

pH versus concentration of K_2SO_4 in pure water



- **compatibility** - SoluPotasse® is compatible with most other fertilizers within normal concentration ranges, except those containing calcium, which causes precipitation of $CaSO_4$ *(Gypsum)*. SoluPotasse® is also compatible with most pesticides and fungicides for foliar application.