

User Manual for Ishiko Plant Mineral Calculator

1. Set the water volume

- Enter the amount of water you're preparing in liters or gallons.
- Select the unit (L or gal). The calculator will automatically convert the volume.

2. Select the mineralizing product

- Choose your package size (450 g or 75 g) – select the one you have and the calculator will adjust the scoop size. (If you dose by weight in grams, the package setting won't matter.)
- Enter the number of scoops or the number of grams of product.

3. Gen BG dose

- From the dropdown, pick either **GEN_BG** or **GEN_nano_BG**.
- The calculator will suggest a dose in clicks or drops based on the standard label recommendation (you can override it if you wish).

4. Gen N, P and K doses

- You may optionally supplement mineralization with Nitrogen (N), Phosphorus (P) and Potassium (K).
- For each element (N, P, K), choose the standard or nano version.
- Enter the number of clicks or drops.

5. Optional mixing with tap water

- Check the **Mix with tap water** box.
- Enter the percentage of tap water in your replacement dose and its parameters (GH, KH, Ca, Mg, Na, K, NO₃, PO₄, SO₄, Cl).
- *Example:* if you enter 100 L total water and 50 % tap water, the calculator will apply 50 % of the tap-water parameters in its calculations.

6. Calculate results

- Click **Calculate**.
- In the **Result** section you'll see:
 - Mass of mineral product used (g)
 - Doses for Gen BG, N, P, K
 - Table of macro- and micro-element concentrations (mg/L)
 - Ratios N:K and Ca:Mg
 - GH and KH contributions from tap water and from the product, plus total values

7. Calculation history

- Every calculation is logged in the **History** section.
- To clear the history, click **Clear history** and confirm.

8. Export results

- Select the export format: PDF, DOC or XLS.
- Click **Export** — the file will either download or open in a print dialog.