

We have a full range of control solutions, essential in the proper management of nutrients in hydroponic systems. We manufacture these products using the purest and most concentrated sources available.

# Nutrient Management

## pH UP and pH DOWN

Growth Technology **pH DOWN** contains orthophosphoric acid ( $H_3PO_4$ ). The concentration is 81%, which is very strong so handle with care. Some other products on the market are considerably weaker so check the concentration before you buy. This is a very dense liquid and should feel much heavier than water.

### Health & Safety

*These liquids need safe and careful handling*

- Always wear gloves and eye protection when handling aggressive liquids
- Always store in locked cupboards
- KEEP AWAY FROM CHILDREN
- pH UP and pH DOWN should be diluted before use – ask for the Growth Technology leaflet on pH and Conductivity
- Full safety information at [www.growthtechnology.com](http://www.growthtechnology.com)
- Full instructions at [www.growthtechnology.com](http://www.growthtechnology.com)

**pH UP** contains potassium hydroxide (KOH). This is a very caustic liquid and should be handled with extreme care.

### The traditional agents of pH control

- Bottled in black and red – the internationally accepted packaging colours for aggressive liquids.
- Full compliance with all health and safety regulations.



pH UP and pH DOWN pack sizes: 250 ml, 1 litre, 5 litres

## pH Buffers and EC Standard

### pH Buffers

Solutions of a known and fixed pH. These are used to calibrate pH meters. This should be done on a regular basis to ensure ongoing accuracy from the meter.

Available buffer solutions:

pH 4 – pH 7 – pH 10

### EC Standard

Solution of a known electrical conductivity (EC), used to check and calibrate EC meters. This should be a regular procedure to ensure best results from the meter.

Available EC standard solution: 2.76 mS/cm



Buffers, Standards and Cleaning and Refill Solutions are all available in : 250 ml, 1 litre, 5 litres

## Meter Maintenance Solutions

pH meters need some care and attention. A little effort will keep them in good shape, which will enhance and ensure their accuracy and extend their useful life.

### Probe Refill and Storage Solution

This solution can be used to store pH meters when not in use. Basically the probe – glass bulb – at the end of the meter should be just immersed in the solution. This will condition the probe and maximise its useful life.

The same solution can be used for refilling the probes on certain meters.

### Probe Cleaning Solution

A solution for cleaning pH probes to remove salt deposits from nutrients and other accumulations.



Full detailed instructions are supplied with every bottle.

Replacement instructions can be accessed from our website at [www.growthtechnology.com](http://www.growthtechnology.com), or just give us a call.

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