

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

0-0-12

Liquid · acid-complexed potassium

Sigma K-Ferm

Fermentation-derived potassium for fill and quality

A high-efficacy liquid potassium from a proprietary microbial fermentation. Low-molecular-weight organic acids complex the potassium for rapid uptake. Apply by soil, drip or foliar methods.

Fill and quality

Supports size, shape, color, brix, taste and shelf life in fruit and vegetable crops.

Rapid uptake

Organic-acid complexed potassium moves quickly into and through the plant.

Soil health

Lowers salinity, improves water permeability and helps regulate soil pH.

Product properties

Soluble potash (K_2O)	12%
Derived from	Sunflower hull ash
Weight	9.85 lb / gallon
Specific gravity	1.18 kg / L
pH	6.86
Filtration	Below 105 microns

Notes

- Safe for plants and seeds: no phytotoxicity risk
- Compatible with blending, tank mixing and fertigation; add last in the tank

General use rates

Spray interval	Rate
7-day interval	22–44 oz / acre
14-day interval	44–88 oz / acre
21-day interval	66–132 oz / acre
28-day interval	88–176 oz / acre

Per acre for each spray. For lawns, turf and gardens, divide the acre rate by 43.6 for the rate per 1,000 ft².

How to apply

Soil drench, drip and fertigation, broadcast soil spray or foliar, on turf, farms, nurseries and gardens.

Tank order

Fill the tank one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5M, Seaweed, then K-Ferm, then the rest of the spray. Jar test new partners; avoid partners at pH 8 or higher.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L). Private label packaging on request.
Compatible with most fertilizers and crop protection products in the same tank. Store in the original container; protect from freezing.

Values from current Sigma product literature. Rates are general starting points; set rates from soil tests and site needs. Sigma products are not pesticides. Always read and follow the product label; confirm local registration.