

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

Crop rates by spray interval

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

Set per acre per week; multiply by the weeks between sprays.

When to apply

- At planting or transplant
- Early growth (2 to 6 leaf, or 3 to 5 weeks after emergence)
- Pre-bloom and first bloom
- Fruit set
- After each picking, and post-harvest for perennials

Apply by: In-furrow, transplant drench, drip and fertigation, broadcast soil spray or foliar.

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). 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. Crop rates are starting points; set rates per field from soil and tissue tests. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.