



MV Soluble Powder

A High Purity, Conventional Potassium Humate

MV Soluble Powder compares favorably to other conventional humates:

Water Solubility

Alkaline soluble – completely soluble above pH 7.0
Use in acidic solutions (pH 5.5 or lower) can result in precipitation

High Purity Potassium Humate

Proprietary extraction process maximizes humate content
80+% humic acid content of powder
High carboxyl content improves solubility and ion exchange

Versatile Product Form

Fully dissolvable powder
Dissolved powder performs equivalently to liquid product

High Ion Exchange Capacity

Aids in balancing soil pH
Better at complexing nutrients
Makes micronutrients more readily available to plants

Highly Effective Biological Properties:

MV Soluble Powder is a highly effective potassium humate for use in applications where a conventional humate can provide sufficient biostimulation, nutrient regulation, and soil conditioning.

A tomato growth study conducted in a hydroponic system indicated that MV Soluble Powder was highly effective in stimulating significant root growth in comparison to the non-treated controls. In hydroponics, the concentration of MV Soluble Powder at 750 ppm provided equivalent performance to 1,250 ppm of competitive conventional humates.

A bentgrass growth study showed that MV Soluble Powder was very effective in stimulating healthy sod under high stress growing conditions.



MV Soluble Powder

Composition

Potassium Humate

Function

Complexing

Typical Application

Agriculture

Typical Analysis

(Solids Basis)

Chemical Data

9.0 pH
0.4 Total Nitrogen
-- Phosphoric Acid (P₂O₅)
16.9 Soluble potash (K₂O)
0.4 Total sulfur (S)
2.2 Calcium (Ca)
0.5 Iron (Fe)
58.5 Carbon (C)
13.0 Oxygen (O)

Physical Data

Color: Black

Powder: 10% max. moisture

Solubility in water 95% (min)

General Specifications

	<u>Minimum</u>	<u>Maximum</u>	This is not a formal specification.
Powder: pH 10% solution	8.0	10.0	Only active customers will be notified of specification changes.
% Humic Acid	80.0		

Storage Stability: Under dry conditions, powder Products remain stable for several years.

Packaging: Powder is packaged in 50 Lb. Net weight multiwall kraft bags or in Non-returnable bulk bags.

Quality Control Methods: Available upon request

MSDS: Available upon request

General Instructions: To formulate a 15% minimum liquid solution of MV Soluble Powder, dissolve 2 lb. Powder per gallon. Test compatibility prior to use.

Lead time: 6-8 weeks



MV Soluble Powder

Description:

MV Soluble Powder is a modified potassium humate derived from leonardite.

Typical Analysis:

9.0	pH	16%	Soluble potash	8%	Sulfur
48%	Carbon	28%	Oxygen	4%	Hydrogen
80%	Organic acids (BaCL ₂ Method) 55% derived from Humic acids, 25% from Fulvic acids				

Benefits:

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| <ul style="list-style-type: none"> - Improves soil structure - Stimulates microbial growth - Stabilizes pH - Increases root penetration | <ul style="list-style-type: none"> - Increases nutrient exchange and retention - Improves nutrient absorption - Increases stress tolerance - Improves seed germination |
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MV Soluble Powder vs Conventional Liquid Humates:

PROPERTY	MV Soluble Powder	Conventional Humate
Humic Acid Content	80 (min)	70
Acid soluble	pH >5	pH>7
Water solubility	Complete	Varies
Fertilizer compatible	Varies	Varies

Versatility

MV Soluble Powder is highly soluble potassium humate derived from leonardite ore. In comparison to other humate products, it is soluble over a wider range of pH. It is low in sodium. MV Soluble Powder is readily bio-available and is packaged as a soluble powder.

Recommended Dosages

Garden vegetables & strawberries – 1-2 lbs. powder per acre per treatment; 3 treatments per year in irrigation water.

Fruits – 1-2 lbs. powder per acre per treatment; minimum of 3 treatments per year in irrigation water.

Citrus – 1-2 lbs. powder per acre per treatment; 2-3 treatments per year in irrigation water.

Banana – 10 lbs. powder per acre per year; 5 treatments per year in irrigation water at equal intervals.

Vineyard Grapes – 1 lb. powder per acre; 3 foliar treatments per year.

Corn – 1- 3 lbs. powder per acre, 2 treatments per year in irrigation water

Olive – ½ lb. powder per acre; 2 foliar treatments per year.

Sorghum – 1-3 lbs. powder per acre; 2 treatments per year in irrigation water

Ornamentals – 3 lbs. powder per acre; weekly treatments in irrigation water

Drip Irrigation – 3 lbs. powder per acre; weekly treatments

Soil Fertilizers – 1 lb. powder per acre to promote absorption

Foliar Fertilizers – ½ lb. powder per acre to promote absorption