

# Monopotassium Phosphate (MKP)

Potassium dihydrogen phosphate crystal grade for phosphorus-potassium nutrient and compatible phosphate formulations.

|                  |                 |                                            |
|------------------|-----------------|--------------------------------------------|
| CAS<br>7778-77-0 | EC<br>231-913-4 | Transport<br>Not regulated · ADR/IMDG/IATA |
|------------------|-----------------|--------------------------------------------|

## Product Information

Monopotassium phosphate is a water-soluble acid phosphate salt containing both phosphorus and potassium. The supplied grade specifies assay alongside P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O nutrient equivalents, which are reporting conventions rather than separate added oxides. Its pH limit applies to a 1% solution. The crystal grade has moisture and insoluble-matter limits relevant to dissolution and blending. Compatibility with calcium, magnesium and other salts should be tested at the intended concentration; the raw material does not define a crop-specific application rate.

## Specifications

| Parameter                                | Specification               |
|------------------------------------------|-----------------------------|
| Appearance                               | White or colorless crystals |
| Assay                                    | ≥99.0 %                     |
| P <sub>2</sub> O <sub>5</sub> equivalent | ≥51.5 %                     |
| K <sub>2</sub> O equivalent              | ≥34.0 %                     |
| pH, 1% solution                          | 4.3–4.7                     |
| Moisture                                 | ≤0.2 %                      |
| Water-insoluble matter                   | ≤0.2 %                      |

## Typical Properties

| Property                      | Typical Value                   |
|-------------------------------|---------------------------------|
| Molecular formula (component) | KH <sub>2</sub> PO <sub>4</sub> |
| Molecular weight (component)  | 136.09 g/mol                    |

## Applications

Water-soluble fertilizer: Use as a phosphorus and potassium source in suitable water-soluble fertilizer formulations.

Nutrient solutions: Evaluate MKP in nutrient solutions with the intended pH and concentration.

Phosphate formulations: Assess the salt in compatible phosphate or buffer formulations.

## Packaging / Storage

| Item      | Information                                                                       |
|-----------|-----------------------------------------------------------------------------------|
| Packaging | 25 kg, 50 kg or 1,000 kg bags.                                                    |
| Storage   | Keep closed in a dry, ventilated area, protected from humidity and contamination. |

## Company Contact

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| Supplier          | Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)                                                   |
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