

TECHNICAL DATA SHEET

Potassium Sorbate

Feed Grade Mold Inhibition and Feed Preservation Additive for Animal and Aquaculture Feed

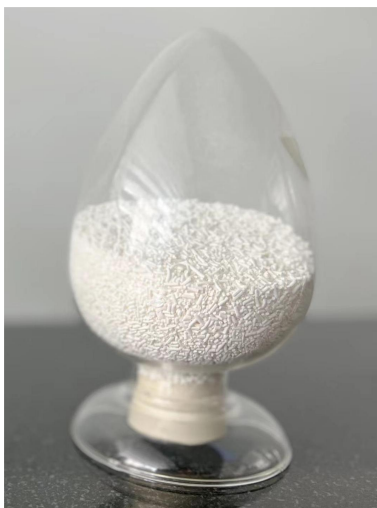
Product Description

Potassium Sorbate is a feed grade potassium salt of sorbic acid supplied as white granular material or powder. It is widely used in compound feed, premixes, and aquaculture feed as an effective preservative and mold inhibition ingredient. The product helps support feed freshness during storage, transportation, and on-farm use, especially in formulas containing moisture-sensitive raw materials, protein meals, fats, or other ingredients that may be affected by microbial growth. Compared with sorbic acid, Potassium Sorbate offers better solubility and easier incorporation in many feed systems. It is suitable for use in livestock, poultry, pet, and aquatic feed applications where feed hygiene, storage stability, and product consistency are important formulation targets.

1. Product Identification

| | |
|-------------------|---------------------------------------------------------|
| Product Name | Potassium Sorbate |
| Chemical Name | Potassium (2E,4E)-hexa-2,4-dienoate / Potassium sorbate |
| CAS No. | 24634-61-5 |
| Molecular Formula | C ₆ H ₇ KO ₂ |
| Molecular Weight | 150.22 g/mol |
| HS CODE | 219619 |
| Grade | Feed Grade |
| Appearance | White granular or powder |
| Primary Function | Mold inhibitor and feed preservation additive |

| UNIT:MT | Covered the pallets | Without pallets |
|---------|---------------------|-----------------|
| 20'FCL | 12 | 13.5 |
| 40'FCL | 14 | 27 |



2. Typical Specification

| Items | Standard |
|-----------------------------------------------------------|--------------------------|
| Appearance | White granular or powder |
| Assay (C ₆ H ₇ O ₂ K), % | 99.0-101.0 |
| Acidity or Alkalinity, % | ≤1.0 |
| Heavy Metal (as Pb), ppm | ≤10 |
| Arsenic (as As), ppm | ≤2 |
| Mercury (as Hg), ppm | ≤1 |
| Loss on Drying (105°C, 3 hours), % | ≤1.0 |
| Aldehydes (as HCHO), % | ≤0.1 |
| Melting Point, °C | 133-135 |
| Lead, ppm | ≤5 |
| Clarity | Conform |

3. Applications and Benefits

Mold inhibition and feed preservation support

Potassium Sorbate is used in feed formulas to help inhibit the growth of molds and certain spoilage microorganisms, supporting feed quality during storage and distribution. In compound feed and premixes, raw materials such as grains, protein meals, by-products, and fat-containing ingredients can be sensitive to moisture, temperature, and storage time. By adding Potassium Sorbate as part of a feed preservation program, manufacturers can improve storage stability and reduce the risk of feed deterioration. It is especially useful for feed products that require clean appearance, stable odor, and consistent palatability before use. The product should be incorporated evenly during mixing and used together with good raw material control, moisture management, packaging, and warehouse hygiene to achieve stable preservation performance.

Application in aquaculture feed

Potassium Sorbate can be applied in aquaculture feed, including fish and shrimp diets, where feed hygiene and stability are important for performance and water quality. Aquafeed often contains protein meals, oils, attractants, and functional additives that must remain stable during production, storage, and feeding. Moldy or unstable feed can reduce palatability, affect nutrient intake, and increase unnecessary pressure on the production environment. Potassium Sorbate helps formulate aquafeed with improved resistance to spoilage while maintaining feed freshness and usability. It is suitable for extruded floating feed, sinking pellets, and shrimp feed when properly blended. For aquaculture applications, attention should be paid to particle size, mixing uniformity, moisture level, and compatibility with pelleting or extrusion conditions.

Feed quality, palatability, and formulation flexibility

As a potassium salt of sorbic acid, Potassium Sorbate provides convenient handling, good dispersibility, and broad compatibility with common feed ingredients. It can be used in premixes,

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complete feed, pet food, and functional feed products where shelf stability and product appearance are important. Compared with some stronger acidifiers, Potassium Sorbate is relatively mild in odor and easier to integrate into formulas that require good palatability. It allows nutritionists to design preservation systems that match different feed types, moisture levels, and storage requirements. The ingredient may also be combined with organic acids, antioxidants, mold inhibitors, or other feed hygiene additives depending on formulation targets and local regulations. Proper dosage selection should be based on feed composition, expected storage conditions, and customer application needs.

Manufacturing, storage, and quality control advantages

Potassium Sorbate is suitable for modern feed production because it is simple to weigh, mix, and incorporate into dry feed systems. Its white granular or powder appearance supports easy visual inspection, and the product can be distributed through standard premix or complete feed manufacturing processes. For best performance, the material should be protected from excessive moisture and stored in clean, dry, and well-ventilated conditions. Quality control should focus on assay, drying loss, heavy metals, and appearance to ensure consistent product quality from batch to batch. In finished feed, uniform distribution is important to avoid local concentration differences and maintain reliable preservation effect. Appropriate packaging, moisture control, and traceability management help preserve the ingredient quality during transportation and storage.

4. Handling and Safety

Avoid inhalation of dust during handling. Use appropriate ventilation, dust mask, gloves, and eye protection where necessary. Wash hands after use and follow good industrial hygiene practices. The product is intended for feed use only and should be handled according to local feed safety regulations and the customer's quality management system.