



TECHNICAL DATA SHEET

1. Product Identification

Product Name: Potassium Acid Pyrophosphate (KAPP)

CAS No.: 12854-31-2

E Number: E450(i) (where applicable)

Molecular Weight: 252.05 g/mol

2. Chemical & Physical Properties

Property	Typical Value
Appearance	White crystalline powder
Odor	Odorless
Solubility in Water	Soluble
Solubility in Alcohol	Insoluble
pH (1% solution, 25 °C)	4.0 – 4.3
Bulk Density	0.9 – 1.1 g/cm ³
Melting Point	Decomposes > 300 °C

3. Typical Specifications

Parameter	Specification
Assay (KH ₂ P ₂ O ₇), %	≥ 98.0
P ₂ O ₅ , %	60.0 – 63.0
K ₂ O, %	32.0 – 34.0
Loss on Drying, %	≤ 1.0
Water Insoluble, %	≤ 0.20
Heavy Metals (as Pb), mg/kg	≤ 10

4. Applications

■ Food Industry

- Acidulant and buffering agent
- Leavening system component
- Texture and flavor control

■ Industrial Applications

- Metal surface treatment
- Electroplating and cleaning formulations
- pH regulation in specialty processes

■ Agricultural & Specialty Uses

- Potassium and phosphorus nutrient source
- Controlled-reaction phosphate systems

5. Advantages

- High purity and consistent performance
- Good solubility and controlled acidity
- Stable chemical structure
- Compatible with multi-phosphate systems

6. Packaging & Storage

- Packaging: 25 kg multi-wall paper bag with PE liner
- Storage: Store in a cool, dry, well-ventilated area
- Shelf Life: 24 months under proper storage conditions

7. Regulatory & Compliance

- FCC / Enterprise Standard compliant
- Non-GMO
- BSE/TSE free
- Allergen free