TECHNICAL DATA SHEET

Product Name: Calcium alpha-ketoglutarate Monohydrate

Synonyms: Calcium 2-oxoglutarate monohydrate; CaAKG monohydrate; Alpha-ketoglutaric acid calcium salt monohydrate

Chemical Formula: $C_5H_4CaO_5 \cdot H_2O$

CAS No.: 402726-78-7

Molecular Weight: 202.18 g/mol

Product Description

Calcium alpha-ketoglutarate monohydrate (CaAKG) is the calcium salt of α-ketoglutaric acid, a vital intermediate in the body's tricarboxylic acid cycle. It delivers alpha-ketoglutarate together with absorbable calcium, serving as a high-quality raw material for nutritional and health products.

Specification

Parameter	Specification
Appearance	White or off-white crystalline powder, with inherent odor of the product, no abnormal odor, no visible foreign impurities in normal vision
Purity	≥99.0%
Calcium ion Content	18.0% ~ 21.0%
pH (aqueous solution)	6.0 ~ 8.0
Loss on Drying	≤1.0%
Heavy Metals	

Mercury (Hg)	≤1.5 mg/kg
Cadmium (Cd)	≤2.5 mg/kg
Lead (Pb)	≤2.0 mg/kg
Arsenic (As)	≤3.0 mg/kg

Applications

- Sports nutrition supplements:
- Supports muscle maintenance and recovery.
- Bone health functional foods: Facilitates bone mineralization.
- Adult dietary supplements and healthcare product raw materials.
- Nutritional support formulations for metabolic health.

Packaging and Storage

- **Packaging:**
  25 kg kraft paper bags with PE liner
  OEM packaging available

- **Storage:**
  Store in a dry, cool and ventilated place. Keep away from moisture, strong light and high temperature. Keep sealed.

- **Shelf Life:**
  24 months from production date under proper storage