# 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.**: 71686-01-6

**Molecular Weight**: 214.18 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% |
| 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