TECHNICAL DATA SHEET

Product Name: Calcium Pyruvate
Grade: Food Grade
Chemical Name: Calcium 2-oxopropanoate
Chemical Formula: $C_6H_6CaO_6$
CAS No.: 52009-14-0
E Number: Not assigned
EINECS No.: 226-009-1
Molecular Weight: 214.16 g/mol

Product Description

Calcium Pyruvate is a white to off-white crystalline powder obtained from pyruvic acid and calcium. It is mainly used in dietary supplements and functional food formulations as a source of calcium and pyruvate. The product shows good stability and is suitable for food and nutraceutical applications.

Typical Specifications

Item		Specification
Lose on drying	≤%	10
Sulfates	≤ppm	400
Chloride	≤ppm	200
Heavy metal	≤ppm	10
Arsenic	≤ppm	1
Content of pyruvic ion	≥%	60
Content of Calcium	≥%	15

Specifications may be adjusted according to FCC / USP or customer-specific requirements.

Manufacturing Process

Calcium Pyruvate is produced through a controlled neutralization reaction between food-grade pyruvic acid and calcium compounds, followed by purification, crystallization, filtration, and drying to ensure consistent quality and high purity.

Raw Materials

Pyruvic Acid (Food Grade)
Calcium Source (Food Grade)

Functional Properties

Provides a bioavailable source of calcium
Supplies pyruvate to support energy metabolism
Good chemical stability
Suitable for solid and powdered formulations

Applications

Dietary supplements

- Functional foods and beverages
- Sports nutrition products
- Weight management formulations
- Nutraceutical preparations

Packaging

- 25 kg fiber drum or paper bag with inner PE liner
- Customized packaging available upon request

Storage & Shelf Life

- Store in a cool, dry, and well-ventilated place
- Protect from moisture and direct sunlight
- Shelf life: 24 months under proper storage conditions

Safety & Handling

This product is intended for food and nutraceutical use in accordance with applicable regulations. Please refer to the Safety Data Sheet (SDS) for detailed safety and handling information.

Regulatory Status

- Food Grade
- Suitable for use in dietary supplements subject to local regulations