



TECHNICAL DATA SHEET

Product Name: Sodium Pyruvate

Grade: Food / Nutritional / Industrial Grade (specify on request)

Chemical Name: Sodium 2- oxopropanoate

Chemical Formula: $C_3H_3NaO_3$

CAS No.: 113- 24- 6

EINECS No.: 204- 024- 4

Molecular Weight: 110.04 g/mol

Product Description

Sodium Pyruvate is a white crystalline powder or granule that dissolves readily in water. It serves as a source of pyruvate in nutritional supplements, functional foods, cell culture media, and other applications. It is stable under normal storage and handling conditions and can be supplied at high purity levels for food, nutraceutical, and industrial uses.

Typical Specifications

Index		Specification
Appearance		White or off white crystalline powder
Identification		Pass test
Lose on drying	≤%	0.5
Sulfates	≤ppm	400
Free acid	≤%	0.25
Chloride	≤ppm	100
pH (water solution)		5.1-7.0
Transparency	≥%	90
Heavy metal	≤ppm	10
Arsenic	≤ppm	1
Content of pyruvic ion	≥%	76
Content (by titration)	≥%	99

Note: Specifications may be adjusted according to FCC, USP or customer- specific requirements.

Manufacturing Process

Sodium Pyruvate is typically manufactured by neutralizing food- grade pyruvic acid with sodium hydroxide under controlled reaction conditions, followed by purification, crystallization, filtration and drying, yielding a high- purity crystalline product suitable for nutritional and biochemical uses.

Raw Materials

Pyruvic Acid (Food/Nutritional Grade)

Sodium Hydroxide (Food/Nutritional Grade)

Functional Properties

Provides a bioavailable source of pyruvate

Supplies sodium as an essential mineral

Excellent water solubility

Stable under normal handling and storage conditions

Applications

Dietary supplements
Functional food and beverage formulations
Sports nutrition products
Cell culture and biotechnology research media
Nutraceutical formulations

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

Intended for nutritional/food applications when used in compliance with applicable regulations. Consult the Safety Data Sheet (SDS) for detailed safety and handling instructions.

Regulatory Status

Food/Nutritional Grade available
Suitable for use in dietary supplements and functional food formulations subject to local regulations