

SPECIFICATION

Product Name: Lactic Acid Food Grade
Chemical Formula: $C_3H_6O_3$
CAS Number: 50-21-5
Molecular Weight: 90.08 g/mol
Appearance: Clear to pale yellow liquid
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
Colour after 6 months	APHA	50
Stereochemical purity (S)- enantiomer	%	97.0%
Sulfated ash	%	0.10%
Heavy metals total	mg/kg	10
Iron	mg/kg	10
Lead	mg/kg	0.5
Mercury	mg/kg	1
Cyanide	mg/kg	1
Citric, oxalic, phosphoric, tartaric acid	-	Passes test
Arsenic	mg/kg	1
Positive test for acid	-	Passes test
Positive test for lactate	-	Passes test
Density (20°C)	g/ml	1.20 – 1.22

Calcium	mg/kg	20
Chloride	mg/kg	10
Sulfate	mg/kg	20
Sugars	-	Passes test
Readily carbonizable substances	-	Passes test
Volatile fatty acids	-	Passes test
Ether insoluble	%	0.7%
Methanol	%	0.20%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in glycerol. Soluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Keep the container tightly closed and protect from direct sunlight, excessive heat, and contamination. Store in the original, corrosion-resistant, properly labeled container to maintain product quality and stability.

Applications

- Use: Widely used as an acidity regulator, pH adjuster, preservative, and flavoring agent in food and beverage products. It helps control pH, enhance flavor, improve microbial stability, and extend shelf life. It is commonly used in dairy products, beverages, confectionery, bakery products, pickles, sauces, processed foods, and fermented foods. It is also used in pharmaceutical, nutraceutical, and cosmetic formulations.

- Dosage: Depends on the intended application, desired acidity (pH), and product formulation. In food and beverage products, it should be used according to formulation requirements and within the limits permitted by the relevant regulatory authority (such as **FSSAI**, **FDA**, or **EFSA**). The appropriate usage level varies based on the food category, processing conditions, and desired acidity or preservative effect.

Packaging

- Standard Packing: 25 Liter Plastic Can or as per customer requirement.



RAWPHARMA BIZ PRIVATE LIMITED

1101-CITY CENTRE-2, SCIENCE CITY ROAD,
SOLA, AHMEDABAD, GUJARAT, 380060

Mobile: +91-8320310672

E-mail: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.



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