



Lactic Acid – Technical Data Sheet (TDS)

Product Name: Lactic Acid 88%

Supplier: Basekim

Document Type: Technical Data Sheet

Grade: Food Grade / Industrial Grade (subject to order specification)

1. Product Description

Lactic Acid is a versatile organic acid used in food processing, cosmetics, pharmaceutical manufacturing, and industrial applications. It provides effective acidity regulation, pH adjustment, and formulation support. The 88% concentration offers high active content and excellent water solubility, making it suitable for various manufacturing processes.

2. General Product Information

Property	Description
Product Name	Lactic Acid 88%
Chemical Name	2-Hydroxypropanoic Acid
CAS Number	50-21-5
EC Number	200-018-0
Molecular Formula	$C_3H_6O_3$
Molecular Weight	90.08 g/mol
Food Additive Code	E270 (food-grade product only)
Appearance	Clear, colorless to pale yellow liquid
Solubility	Completely miscible with water

3. Technical Specifications

The following values are reference specifications for an 88% food-grade formulation. Final acceptance limits must match the approved product specification.

Parameter	Reference Specification
Lactic Acid Assay	87.5–88.5%
Appearance	Clear, colorless to pale yellow liquid
Color (APHA)	50 Max



Parameter	Reference Specification
Density at 20°C	1.19–1.21 g/cm ³
Sulfated Ash	0.10% Max
Chloride	20 mg/kg Max
Sulfate	100 mg/kg Max
Iron	10 mg/kg Max
Arsenic	1 mg/kg Max
Lead	0.5 mg/kg Max
Mercury	1 mg/kg Max
Calcium	20 mg/kg Max

Note: Optical purity, impurity limits, and food-grade compliance must be verified for the specific supplied grade. These reference values do not constitute guaranteed Basekim specifications.

4. Main Applications

- Food and beverage acidity regulation
- Cosmetic and skincare formulations
- Pharmaceutical manufacturing
- Industrial cleaning products
- Textile processing
- Chemical manufacturing
- Production of polylactic acid (PLA)

5. Packaging

Available packaging options should be confirmed at the time of quotation.

Common commercial formats include:

- HDPE drums
- Intermediate Bulk Containers (IBCs)
- Bulk packaging

All packaging must provide suitable chemical compatibility and protection against contamination.



6. Storage Conditions

- Store in tightly closed, compatible containers.
- Keep in a cool, dry, and well-ventilated area.
- Protect from direct sunlight and excessive heat.
- Keep away from strong oxidizing agents and incompatible materials.
- Follow the manufacturer's recommended storage temperature.

Shelf Life: Confirm with the manufacturer's product-specific documentation.

7. Quality Control

Buyers should verify product quality through an approved specification and batch-specific Certificate of Analysis (COA).

Food-grade applications require compliance with applicable food regulations and specifications. Pharmaceutical and cosmetic applications may require additional testing and documentation.

8. Safety and Handling

Avoid direct contact with skin and eyes. Use appropriate protective gloves, safety goggles, and protective clothing during handling.

Consult the product-specific Safety Data Sheet (SDS) for complete hazard identification, first aid, storage, and transportation information.

9. Supplier Information

Supplier: Basekim

Product: Lactic Acid 88%

Commercial Information: Contact the supplier to confirm available grades, packaging, order quantities, delivery terms, and current pricing.