

Lactic Acid

Specification Sheet

Description: Lactic acid is a naturally occurring alpha hydroxy acids (or AHAs) produced by fermentation of sugars. It is the alpha hydroxy acid most frequently used for peel products. Synonym: 2-Hydroxypropanoic acid. Concentration: 88% (12% water). Grade: CG.

CAS: 50-21-5, 79-33-4, 7732-18-5

INCI Name: Lactic acid

Composition: Lactic acid, water

Purity Grade: No purity grade applicable

Appearance: Clear, water-white viscous liquid, characteristic odor

Benefits:

- Very useful to rejuvenate the skin by encouraging the shedding of old surface skin cells
- Can reduce the appearance of fine lines, irregular pigmentation, age spots & decreases enlarged pores
- Good choice for first-time peel users or for those with sensitive skin
- Often used in creams & lotions at a lower concentration for a more gentle acid-based peel.

Use: Typical use level is between 1-20%.

Applications: Peels, creams, lotions, masks, cleansers. Due to its acidity the final product needs to be tested for safe pH. Optimal pH range from 3.5-5.0. Some over the counter products, after adding lactic acid, will separate as a result of the low pH, and need to be stabilized.

Solubility: Water-soluble

Preservation: Preservative-free

Storage: Store light-protected at a cool and dry place

Country of Origin: USA

Raw material source: Corn starch and various sugars

Manufacture: Lactic acid is produced by bacterial fermentation (various *Lactobacilli*) of carbohydrates (sugar, starch). Pure sucrose, glucose from starch, raw sugar beet juice are frequently applied.



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Animal Testing: Not animal tested

GMO: No data available

Vegan: Does not contain animal-derived components

HS Code: 1518004000

Shipping Information: This item ships HazMat. The transport of HazMat ingredients is strictly regulated by the DOT (Dept. of Transportation) and IATA (International Air Transport Association). Both domestic and international shipping requires special packaging, labeling, and documentation. Additional surcharges may apply when ordering larger quantities. At this time HazMat items will be shipped via UPS Ground only within the US (excluding Alaska and Hawaii).