

# PRODUCT DATA

## L-Lactic acid (50%)

(FG)

### Description

L-Lactic acid 50% (FG) is the natural L (+) lactic acid, which is produced by bio-fermentation from grain starch. It's colorless or yellowish, nearly odorless, syrupy liquid having a slight acid taste. It is hygroscopic, and all soluble in water, ethanol or ether, but insoluble in chloroform.

### Information

Chemical name	L (S)-2-hydroxypropionic acid
Molecular formula	CH <sub>3</sub> CH (OH) COOH
Molecular weight	90.08
CAS	79-33-4
Packing	polyethylene drum, net 200kg or 20kg per drum

### Specification (Complies with: FCC,FAO/WHO,JSFA,GB)

Color, APHA	≤50
Identification	Lactic acid solution(1+10) is acidic. Lactic acid responds to the test for Lactate.
Citric, oxalic, tartaric and phosphoric acid	No turbidity appears
Sulphate, %	≤0.005
Chloride, %	≤0.001
Cyanide, %	≤0.0001
Heavy metals total, %	≤0.001
Lead, %	≤0.00005
Mercury, %	≤0.0001
Iron, %	≤0.001
Arsenic, %	≤0.0001
Volatile fatty acid	Solution emits no butyric acid-like odor
Methanol, %	≤0.2
Readily carbonizable substances	The color of the band does not change to dark gray
Ether insoluble substances	Passes test EP
Reducing sugars	No red precipitate is formed
Calcium	No turbidity appears
Sulphated ash, %	≤0.05
Density (20°C), g/ml	1.12~1.14
Stereochemical purity %	≥96.0
Assay, w/w%	49.5~50.5

Note: The specification of purity experiment refers to 80% Lactic acid aqueous solution