



# PRODUCT DATA

## L-Lactic acid (90%)

### (HPG)

#### Description

L-Lactic acid 90% (HPG) is the natural L (+) lactic acid, which is produced by bio-fermentation from grain starch. It's colorless, 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 250kg or 25kg per drum

#### Specification (Complies with: USP,JP,CP)

Color, APHA	≤10
Color(180°C, 2hs), APHA	≤10
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, %	≤0.001
Chloride, %	≤0.001
Cyanide, %	≤0.0001
Heavy metals total, %	≤0.0005
Lead, %	≤0.00005
Mercury, %	≤0.0001
Iron, %	≤0.0001
Arsenic, %	≤0.0001
Volatile fatty acid	Solution emits no butyric acid-like odor
Methanol, %	≤0.05
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, %	≤0.0001
Sulphated ash, %	≤0.01
Density (20°C), g/ml	1.20~1.22
Stereochemical purity %	≥98.0
Assay, w/w%	89.5~90.5