

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 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	$\text{CH}_3\text{CH}(\text{OH})\text{COOH}$
Molecular weight	90.08
CAS	79-33-4
Packing	Polyethylene drum, Net 250kg or 25kg per drum

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

Identification	Lactic acid solution (1+10) is acidic. Lactic acid responds to the test for Lactate.
Assay, w/%	Not less than 95.0 and not more than 105.0 of the labeled concentration
Stereochemical purity, % $L/(L+D) \times 100$	≥ 99.0
Sulphated ash, w/%	≤ 0.01
Chloride (as Cl), w/%	≤ 0.001
Sulphates (as SO_4), w/%	≤ 0.001
Iron (Fe), w/%	≤ 0.0001
Cyanide, mg/kg	≤ 1.0
Citric, oxalic, tartaric and phosphoric acid	Passes test
Sugars	Passes test
Readily carbonizable substances	Passes test
Lead (Pb), mg/kg	≤ 0.5
Arsenic (As), mg/kg	≤ 1.0
Color, APHA	≤ 10
Color (180°C, 2hs), APHA	≤ 10
Mercury (Hg), mg/kg	≤ 1
Volatile fatty acid	Passes test
Methanol, w/%	≤ 0.05
Heavy metals (as Pb), mg/kg	≤ 5
Ether insoluble substances	Passes test
Calcium, mg/kg	≤ 1
Density (20°C), g/ml	1.200~1.220