

# L-Lactic acid (PG90)

L-Lactic acid (PG90) is a polymeric grade lactic acid with high optical purity and high chemical purity, with a low impurity content, making this product suitable for polycondensation of polylactic acid or for the preparation of polymeric grade lactide.

## Description

Name	L-Lactic acid
Molecular Formula	CH <sub>3</sub> CHOHCOOH
Molecular weight	90.08
CAS number	79-33-4

## Specification

Properties	L-Lactic acid (PG90)
Appearance	Colorless clear or slightly yellow viscous liquid
Assay, %	89.5 ~ 90.5
Optical purity, % L/(L+D) × 100	≥99
Density, g/mL	1.20 ~ 1.22
Color, APHA	≤ 35
Color (180°C, 2 hours), APHA	≤ 50
Chloride (based on Cl <sup>-</sup> ), %	≤ 0.001
Sulfate (measured as SO <sub>4</sub> <sup>2-</sup> ), %	≤ 0.001
Cyanide, %	≤ 0.0001
Residue on ignition, %	≤ 0.01
Iron salt (measured as Fe), %	≤ 0.0005
Lead, %	≤ 0.00005
Mercury, %	≤ 0.0001
Arsenic (calculated as As), %	≤ 0.0001
Calcium, %	≤ 0.0001
Volatile fatty acids	qualified
Citric acid, oxalic acid, phosphoric acid, tartaric acid	qualified
Reducing sugar	qualified

## Packing

Polyethylene plastic drum, net weight 200kg/barrel or 25kg/barrel.

**Storage and transportation** Store in a cool, dry place.



Jiangxi Academy of Sciences Bio-Material Co., Ltd  
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