

Lactic Acid 80%

Concentrated aqueous organic acid for acidification, descaling and industrial formulation.

CAS No. 50-21-5	EC / List No. 200-018-0	Transport Class 8 — Corrosive
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Product Information

Lactic acid is an alpha-hydroxy organic acid with molecular formula C₃H₆O₃ and molecular weight 90.08 g/mol for the active component. The 80% grade is an aqueous solution, so the formula and molecular weight describe lactic acid rather than the complete liquid mixture.

Specifications

Parameter	Specification
Appearance	Clear, colorless to pale yellow viscous liquid
Lactic acid	≥80 %
L-isomer, proportion of total lactic acid	≥98 %
Residue on ignition	≤0.10 %
Chloride	≤0.002 %
Sulfate	≤0.005 %
Iron	≤0.001 %
Cyanide	≤1 mg/kg
Lead	≤2 mg/kg
Arsenic	≤1 mg/kg

Assay and impurity limits follow the supply TDS. L-isomer content is expressed as a proportion of total lactic acid. Formula and molecular weight describe the active component, not the aqueous mixture.

Typical Properties

Property	Typical Value
Molecular formula	C ₃ H ₆ O ₃
Molecular weight	90.08 g/mol (active component)

Applications

Industrial descaling and metal cleaning: Organic acid for formulations that remove compatible carbonate or mineral deposits. Evaluate acid concentration, substrate compatibility and corrosion response, then manage spent cleaning liquid appropriately.

Oilfield acidification and process development: Organic acid component for selected stimulation and acidification systems. Assess reservoir conditions, mineral response, temperature, corrosion inhibition and compatibility in the designed fluid.

pH adjustment and formulation: Concentrated acid for controlled pH adjustment and organic-acid formulation. Use compatible equipment and determine the dose from the required acidity and performance of the complete system.

Packaging / Storage

Item	Information
Packing	IBC tanks / chemical-compatible drums
Storage	Store tightly closed in a cool, ventilated area in acid-compatible packaging. Protect from contamination and excessive heat. Keep separate from strong bases, oxidizers and reducing agents.
Handling	Use acid-compatible closed transfer and local ventilation. Wear chemical-resistant gloves, splash goggles, a face shield for splash-prone work and protective clothing. Avoid skin, eye and mist exposure; provide eyewash and emergency washing facilities.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com