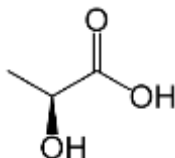


TIQ-F-QC-003
 Rev.00

Technical Data Sheet

LACTIC ACID 88 % AR

2-Hydroxypropionic acid, L-(+)-Lactic acid



Product Code	A-2025	Grade	Analytical Reagent
Purity	88 %	CAS No	79-33-4
Molecular Formula	C ₃ H ₆ O ₃	Molecular Weight	90.08 g/mol
H.S.Code	2918.1110	Shelf Life	60 Months

Physical Properties

Physical state	Viscous	Boiling point [°C]	122 °C
Colour	Colorless	Relative density [g/cm ³]	1.209
Odour	Odourless	Auto-ignition temperature	400 °C at 1.011,4 - 1.018,9 hPa
Melting point/ Freezing point [°C]	< -80 °C at ca.1.013 hPa	Flash point [°C]	113 °C

Packaging

500 ml & 2500 ml

Specification

Appearance	A clear colorless to slightly yellow syrupy liquid
Assay (alkalimetric, total acidity as Lactic acid)	min 88.0 %
Stereochemical purity (L+)	min 97.0 %
Colour scale	max 50 Hazen
Wt. Per ml at 20 °C	1.190 – 1.210 g/cm ³
Heavy metal (as Pb)	max 0.001 %
Sulphated ash (600 °C)	max 0.05 %
Chloride (Cl)	max 0.001 %
Sulphate (SO ₄)	max 0.001 %
Arsenic (As)	max 0.00001 %
Calcium (Ca)	max 0.001 %

Iron (Fe)	max 0.001 %
Lead (Pb)	max 0.00005 %
Cyanide (CN)	0.0005%
Mercury (Hg)	0.0001%
Positive test for lactate	passes test
Reducing substance (as sugars)	passes test

Safety Information and Hazard Symbols



Symbol: GHS05

Signal Word: Danger

UN No.: 3265

IMCO Class No.: 8

Packing Group: III

Hazardous Statement: H314

Precaution Statement: P260-P280-P303+P361+P353-P304+P340+P310-P305+P351+P338-P363