

# GALACID HEAT-STABLE 88

LAHSL88 / *galactic ref.*

LACTIC ACID 88% HEAT-STABLE / *product name*

## DESCRIPTION

GALACID HEAT-STABLE 88 is a natural L(+) lactic acid produced by fermentation from sugar. It is colorless, heat stable and has a mild acid taste. It is widely used as an acidulant for preservation and flavor enhancement in various food applications.

## PHYSICO-CHEMICAL PROPERTIES

Chemical name		2-Hydroxypropanoic acid
Molecular weight	<i>g/mol</i>	90
Molecular formula		C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>
Density (@20°C/68°F)	<i>g/mL</i>	1.19 - 1.21
Solubility	-	Soluble in water and ethanol

## SENSORY CHARACTERISTICS

Colour (fresh solution)	<i>Hazen</i>	Max. 35
Colour after heating (@200°C/392°F, 2h)	<i>Hazen</i>	Max. 50
Odour	-	Nearly odorless
Taste	-	Mild acid

## PURITY

Positive test for lactate	-	Passes test
Total acidity (as lactic acid)	<i>% w/w</i>	Min. 88
Stereochemical purity	<i>% L(+)</i>	Min. 97
Heavy metals (as Pb)	<i>ppm</i>	Max. 5
Iron	<i>ppm</i>	Max. 5
Calcium	<i>ppm</i>	Max. 10
Chloride	<i>ppm</i>	Max. 5
Sulphate	<i>ppm</i>	Max. 10
Sulphated ash	<i>% w/w</i>	Max. 0.01
Cyanide	<i>ppm</i>	Max. 0.5
Lead	<i>ppm</i>	Max. 0.5
Arsenic	<i>ppm</i>	Max. 1
Mercury	<i>ppm</i>	Max. 0.5
Reducing substances (sugars)	-	Passes test
Citric, oxalic, tartaric and phosphoric acids	-	Passes test
Methanol and methyl esters	-	Not detectable
Volatile fatty acids	-	Passes test
Readily carbonizable substances	-	Passes test
Ether - insoluble substances	-	Passes test

## REGISTRATION

Labeling <sup>(2)</sup>	Lactic acid - E 270 - Lactic acid of natural origin - Lactic acid made by fermentation
CAS number	79-33-4
GRAS status	Yes
Complies with	Eur Reg 231/2012 - FCC <sup>(1)</sup> - EP <sup>(1)</sup> - USP <sup>(1)</sup> - JSFA <sup>(1)</sup> Kosher - Halal
ECOCERT approved	Raw material approved by Ecocert according to the ECOCERT standards

## PACKAGING

See packaging list

## STORAGE CONDITIONS

Dry, well-ventilated room

## SHELF-LIFE

48 months

## LEGEND

<sup>(1)</sup> Latest edition

<sup>(2)</sup> Several designations are allowed subject to the local regulations