

GALASTER EL 98.5 FCC

ELSTL98.5 / *galactic ref.*

ETHYL LACTATE 98.5% FCC / *product name*

DESCRIPTION

GALESTER EL 98.5 FCC is a food grade and biodegradable ethyl ester of natural L(+) lactic acid made by fermentation from sugar. It is widely used as a food grade solvent.

PHYSICO-CHEMICAL PROPERTIES

Chemical name		Ethyl-5-(-)-2-hydroxy-propionate
Molecular weight	<i>g/mol</i>	118
Molecular formula		C ₅ H ₁₀ O ₃
Density (@20°C/68°F)	<i>g/mL</i>	1.029 - 1.038
Refractive index (@20°C/68°F)	-	1.410 - 1.420
Solubility	-	Totally soluble in water and most organics solvents
Boiling point (1013 mbar)	°C	154
Vapor pressure (@20°C/68°F)	<i>mbar</i>	1.8
Vapor pressure (@100°C/212°F)	<i>mbar</i>	162
Flash point (closed up)	°C	60.5 (ASTM D93 - ISO 2719)
Evaporation rate	<i>(n-butyl acetate = 1.0)</i>	0.22

SENSORY CHARACTERISTICS

Colour (fresh solution)	<i>Hazen</i>	Max. 30
Odour	-	Characteristic

PURITY

Ethyl lactate content	<i>% w/w</i>	Min. 98.5
Acidity (as lactic acid)	<i>% w/w</i>	Max. 0.1
Water content	<i>% w/w</i>	Max. 0.2
Lead	<i>ppm</i>	Max. 10
Arsenic	<i>ppm</i>	Max. 3
Mercury	<i>ppm</i>	Max. 1
Cadmium	<i>ppm</i>	Max. 1
Ethanol	<i>% w/w</i>	Max. 0.2

REGISTRATION

Labeling	Flavouring
CAS number	687-47-8
GRAS status	Yes
Complies with	JECFA* - FCC*
*Latest edition	Kosher - Halal

PACKAGING

See packaging list

STORAGE CONDITIONS

Dry, well ventilated room

SHELF-LIFE

24 months