

Natural L(+) tartaric acid

Technical Notes

Tarac Technologies is one of the largest suppliers of quality L(+) tartaric acid.

L(+) tartaric acid is a product of nature and occurs in high concentrations in certain fruits and in particular grapes. Natural L(+) tartaric acid is the fruit acid that gives grapes their characteristic flavour.

The high level of purity of Tarac natural L(+) tartaric acid allows it to be used in food, wine, pharmaceuticals and the chemical industries. It meets quality specifications of:

- European Pharmacopoeia of the VI – USP32/NF27, FCC VI
- International Winemakers Regulations.

Tarac Natural L(+) tartaric acid is available in two forms:

- Granules
 - Fine crystals
 - 15 and 1,000 kg bags
 - Storage – must be kept in airtight packaging and stored in a dry place, away from moisture and in normal conditions of temperature.
 - Storage – as the product tends to cake, long storage periods are not recommended, especially for the very fine granular styles.
- Liquid
 - supplied as a solution of 500GMS/litre
 - made using high purity reverse osmosis water
 - supplied in 1,000 litre IBC's or bulk tanker
 - reduces packaging wastes in winery
 - ease and accuracy for measured use
 - assists in minimising OH&S issues and increases the efficiency of cellar labour.

Safety

Safety information concerning the product is enclosed with despatch documents and is also available on request.

Storage and Stability

L(+) tartaric acid is a stable compound that does not alter with time if the correct storage conditions are maintained.

Chemical Analysis

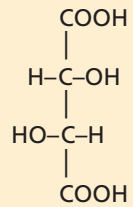
Name	L(+) tartaric acid	Loss in drying	Max 0.1%
	(2R, 3R) 2, 3 dihydroxybutane	Sulphate ash	Max 0.1%
	1,4 dioic acid	Sulphates	Max 50mg /kg
Identification Appearance	Complies with EP, BP, DAB, FCC, NF, FUI Colourless or white crystals; odourless, crystalline powder	Chlorides	Max 50mg/kg
		Oxalates	Max 100mg /kg
Colour and clarity of solution	Complies with EP, BP, DAB, FCC, NF, FUI	Heavy metals	Max 10mg /kg
Assay	Granular Min 99.7% Liquid >50%	Arsenic	Max 0.1mg /kg
Specific rotation	+12.0° /+ 12.8°		

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Chemical data of Natural Tartaric acid (E-334)

L(+) Tartaric Acid

Structural Formula



(2R, 3R) – 2,3
dihydroxybutane – 1,4 dioic acid

CAS – No [87-69-4]

Molecular formula	C ₄ H ₆ O ₆
Molecular Weight	150,1
Melting point	170°C
Equivalent weight	75
PH of 1% solution	2,1
Density D ₄ ²⁰	1,7598

Solubility

T°C = 0	gr/100	grH ₂ O = 115
	20	139
	40	176
	50	194
	60	218
	80	273
	100	343