TECHNICAL DATA SHEET
Natural L(+) Tartaric Acid

Product name: Natural L(+) Tartaric Acid
Type: Granular
Formula: $C_4H_6O_6$
Description: Natural Tartaric Acid is obtained from wine by-products. Colourless crystals. Strong acidity taste.
Identifical numbers: CAS : 87-69-4, CEE : E334, EINECS : 2017660

Parameter	Purity Tests and maximum values European Pharmacopoeia 7th Edition USP 35 / NF 30 F.C.C 8th Edition Food Grade Standards 231/2012/EU International Oenological Codex	Limit Specifications
Melting point	168° C – 170° C	168° C – 170° C
Characteristics (appearance, solubility)	-	Conform
Identification	-	Conform
Appearance of solution (clarity and colour)	-	Conform
Specific rotation	Between + 12.0° and + 12.8°	+ 12.0° and + 12.8°
Oxalic acid	≤ 100 ppm	< 100 ppm
Chlorides	≤ 100 ppm	< 50 ppm
Sulphates	≤ 150 ppm	< 150 ppm
Calcium	≤200 ppm	< 100 ppm
Heavy metals	≤ 10 ppm	< 10 ppm
Loss on drying	≤ 0.2 %	< 0.2%
Residue on ignition (sulphated ashes)	≤ 0.1%	< 0.1 %
Iron	≤ 10 ppm	< 10 ppm
Organic volatile impurities	-	Conform
Arsenic	≤ 1 ppm	< 1 ppm
Mercury	≤ 1 ppm	< 1 ppm
Cadmium	≤ 1 ppm	< 1 ppm
Lead	≤ 2 ppm	< 2 ppm
Residual solvents (CPMP / ICH / 283 / 95)	-	Total absence in the manufacturing process
Assay	Between 99. 7% and 100.5 %	99.7% – 100.5 %
Particle size	> 2000 microns = 0 % ; < 125 microns = 10 % max	
Packaging	Multiply paper bags lined with polyethylene of 25 Kgs net. Big Bags from 500 to 1250 Kgs.	
Shelf-life	To be consumed preferably within five years from the production date	
Storage - stability	Tartaric Acid must be kept in an airtight packing and stocked in a dry place away from humidity and in normal conditions of temperature. It is a stable compound which does not alter with time if those storage advises are respected. This product tends to cake, a too long storage is not advised.	

H Plus Ltd will ensure that any material supplied against this specification will conform to the above physical and chemical properties. However, we have no control over the use of the material and can accept no responsibility for problems caused by the customer's failure to ensure the material supplied is suitable for the intended use.

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