

# NATURAL L(+) TARTARIC ACID

**SPECIFICATION** ed. 10-05-21; exp 10-05-24

Commercial name:	L-(+)-Tartaric Acid of natural origin (vegetable)	E334
IUPAC name:	(2R,3R)-2,3-Dihydroxybutanedioic acid	
CAS code:	87-69-4	
EINECS code:	201-766-0	
Formula:	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>	
Molecular weight:	150.09	

Description:	White or almost white crystalline powder, or colourless crystals.
Identification:	Gives the reactions of tartrates; positive IR Spectrum.
Melting point:	168-170°C
Solubility:	Very soluble in water, freely soluble in alcohol.
Appearance of solution:	Clear and not more intensely coloured than reference solution Y <sub>6</sub> .
Assay (dry basis):	99.7-100.5%
Specific optical rotation:	+12.0-12.8°
Loss on drying:	not more than 0.2%
Sulphated ash:	not more than 0.05%
Sulphates:	less than 150ppm
Oxalates:	less than 100ppm
Calcium:	less than 80ppm
Chlorides:	less than 50ppm
Heavy metals (as Pb):	less than 10ppm
level of <sup>14</sup> C:	not less than 12.5 dpm/g of carbon
Lead:	less than 0,5ppm
Arsenic:	less than 0,5ppm
Mercury:	less than 0,5ppm
Iron:	less than 5ppm

Racemic Tartaric acid (D,L)

Completely exempt (by HPLC – internal method)

**Shelf life:** 4 years

*The product meets the requirements of:*

***Eur. Ph. (X ed.)***

***USP - NF 2021***

***FCC XII***

***Japanese Ph. XVII ed.***

***Oenological Codex 2019***

***Commission Directives 231/2012 and 2244/2002.***

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