



TECHNICAL DATA SHEET NATURAL L (+) TARTARIC ACID



Rev 14/2013

COMERCIAL QUIMICA SARASA SLCtra. Extremera Km 2.5 FUENTIDUENA DE TAJO, MADRID – ESPAÑA
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- Chemical Formula: C₄H₆O₆
- Physical Aspect: Tartaric acid occurs as colorless or translucent crystals or as a white fine to granular crystalline powder. It is odorless and has an acid taste.
- Tartaric acid is stable to air and light.
- Chemical Name: Tartaric Acid (Butanodioc 2, 3-dihydroxy acid).
- EC-No: E334
- CAS -No: 87-69-4
- EINECS No: 2017660
- Product life is 10 years, but being hygroscopic recommended to use within 6 months. According to: Ph, EUR, USP, FU, NIF, FCC Y REG 2012/231/EC

PHYSICAL & CHEMICAL PROPERTIES

- Molecular Weight: 150,09
- Melting Point: 168-170° C
- Specific Rotation (aq. solution 20%, w/v), $[\alpha]_D^{20} = + 12,0 / 12,8$
- Solubility in:
 - Ethanol, 25° C: 19,6 g/100 ml
 - Ether, 25° C: 0,59 g/100ml
 - Water:

Tem °C	Solubility g/100 g H ₂ O	Tem °C	Solubility g/100 g H ₂ O	Tem °C	Solubility g/100 g H ₂ O
0	115	30	156	70	244
5	120	40	176	80	273
10	125	50	195	90	307
20	139	60	218	100	343

- Dissociation Constants: K₁: K₁ = 1,04 x 10⁻³; K₂ = 4,55 x 10⁻⁵
- 1 % Aqueous solution has a pH = 2,1.
- **STORAGE:** storage time to less than 12 month in order to avoid the caking. Kept in the original packing, in dry cool place, avoiding to expose it to very hot or cold temperatures and to direct sun light.

CHEMICAL SPECIFICATIONS

- | | | |
|----------------------------------|---------|--------------|
| • Purity : | Minimum | 99.90 % |
| • Loss on drying : | Maximum | 0.20 % |
| • Residue on ignition : | Maximum | 0.02 % |
| • Sulphates (SO ₄) : | Maximum | 150 p. p. m. |
| • Iron (Fe) : | Maximum | 5 p. p. m. |
| • Chlorides (Cl) : | Maximum | 10 p. p. m. |
| • Arsenic (As) : | Maximum | 1 p. p. m. |
| • Oxalic acid : | Maximum | 100 p. p. m. |
| • Calcium (Ca) : | Maximum | 200 p. p. m. |
| • Mercury (Hg): | Maximum | 1 p. p. m. |
| • Lead (Pb): | Maximum | 2 p. p. m. |

Based on analytical methods: British Pharmacopoeia, United States Pharmacopoeia, European Pharmacopoeia.

Identification number:	1	2	3	P	24	14	15
Grade:	Very fine granular	Fine granular	Standard granular	Powder-Eno	Very fine powder	Extrafine powder	Very extrafine powder
Granulometric range(microns):	600 - 250	900 - 315	1200 - 500	400 - 125	< 100	< 200	< 63
Mean value:	90%	90%	87%	90%	45%	90%	70%

*Wealth of the size grain N°14 and 15 = 96,90%

*The average value of all size grades is ±10

*Ask for an other size grains.

PACKAGING

- 25 kg polypropylene raffia bags with polyethylene inner bag.
- 25 kg paper bags with polyethylene inner bag.
- 1,000 kg polypropylene raffia big bags with polyethylene inner bag.
- 1,000 kg, 1,200 kg and 1,250 kg shrinkwrapped pallets.

*FDS for more information.