TECHNICAL DATE SHEET
NATURAL TARTARIC ACID L (+) E334

Rev 17/2020

COMERCIAL QUIMICA SARASA SL
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DESCRIPTION

- Chemical Formula: $C_4H_6O_6$
- Physical Aspect: Tartaric acid occurs as colourless or translucent crystals or as a white fine to granular crystalline powder. It is odourless 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: 168-170º 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 ºC	Solubility g/100 g H_2O	Tem ºC	Solubility g/100 g H_2O	Tem ºC	Solubility g/100 g H_2O
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 (SO4) :	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	10 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	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%	60%	90%	90%

*The purity of the size of the grain Nº 14 and 15 = 96.90%
*The average value of all the categories of size is of ±10.
*Ask for more granulometry size.

PACKAGING

- Polypropylene raffia bags or paper bags with polyethylene inner bag of 25Kg.
- Polypropylene raffia big bags with polyethylene inner bag of 1,000 kg.
- Shrinkwrapped pallets of 1,000 kg, 1,200 kg and 1,250 kg.

*FDS for more information.