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 (Butanodic 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, 25º C: 19,6 g/100 ml
  - Ether, 25º C: 0,59 g/100ml
- Water:

<table>
<thead>
<tr>
<th>Temp ºC</th>
<th>Solubility g/100 g H_2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>115</td>
</tr>
<tr>
<td>5</td>
<td>120</td>
</tr>
<tr>
<td>10</td>
<td>125</td>
</tr>
<tr>
<td>20</td>
<td>139</td>
</tr>
</tbody>
</table>

- Dissociation Constants: \( K_1: K_1 = 1,04 \times 10^{-3}; K_2 = 4,55 \times 10^{-5} \)
- 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 10 p. p. m.

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

<table>
<thead>
<tr>
<th>Identification number:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>P</th>
<th>24</th>
<th>14</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade:</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Granulometric range(microns):</td>
<td></td>
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<td></td>
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<tr>
<td>Mean value:</td>
<td>90%</td>
<td>90%</td>
<td>87%</td>
<td>90%</td>
<td>60%</td>
<td>90%</td>
<td>90%</td>
</tr>
</tbody>
</table>

*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 ±0.
*Ask for more granulometry size.

PACKAGING

- Polypropylene raffia bags or paper bags with polyethylene inner bag of 25 Kg.
- 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.