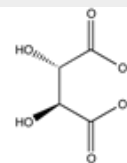


**Identification**

$C_4H_6O_6$   
 M = 150,09 g/mol  
 CAS [87-69-4]  
 EC number: 201-766-0  
 Taric code: 2918 12 00


**Synonyms**

2,3-Dihydroxybutanedioic acid

**Applications**

in food industry, acidifying agent, photography, cosmetics, in porcelain industry, in the textile industry, in buffer solutions (for pharmaceuticals synthesizing).

**Specifications**

assay (acidimetric).....	min. 99,5 %	copper (Cu).....	max. 5 ppm
assay (acidimetric, on dried sample).....	99,5 - 101,0 %	heavy metals (as Pb).....	max. 5 ppm
identification.....	passes test	iron (Fe).....	max. 5 ppm
appearance of solution.....	passes test	lead (Pb).....	max. 5 ppm
insoluble in water.....	max. 0,005 %	oxalic acid (C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> ).....	max. 360 ppm
specific rotation ([α] <sub>20</sub> <sup>o</sup> /D, c=20, H <sub>2</sub> O on dried sample)	+ 12,0 ° - + 12,8 °	oxalates (C <sub>2</sub> O <sub>4</sub> ).....	passes test
chlorides (Cl).....	max. 5 ppm	sulphur compounds (as SO <sub>4</sub> ).....	max. 0,002 %
phosphates (as PO <sub>4</sub> ).....	max. 0,001 %	residue on ignition (EP).....	max. 0,1 %
sulfates (SO <sub>4</sub> ).....	max. 150 ppm	residue on ignition (ISO).....	max. 0,01 %
calcium (Ca).....	max. 0,002 %	residue on ignition (ACS).....	max. 0,02 %
		loss on drying (105 °C).....	max. 0,2 %

**Physical data**

- Appearance: crystals, white or almost white
- Spec. Density: 1,76 g/cm<sup>3</sup>
- Bulk density: ~ 800 - 1000 kg/m<sup>3</sup>
- Solub. in water: (20 °C): soluble
- Melting point: 170 °C
- Ignition temperature: 425 °C
- pH(100 g/l H<sub>2</sub>O, 25 °C) ~ 1,6

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

H318: Causes serious eye damage.


**Precautionary Statements:**

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor / physician.

**Transport/storage**

- 10°C - 30°C