



Specialized in chemicals

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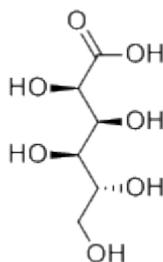
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Technical Data Sheet

Gluconic acid

Product Information

Chemical Name	Gluconic acid
CAS #	526-95-4
Formula	C6H12O7
Molecular Weight	196.16
Chemical Structure	



Description

Soluble in water, slightly soluble in ethanol, insoluble in ether and most other organic solvents. In aqueous solution, partial conversion to gamma and delta lactone, and a balanced mixture. Acidity of aqueous solution. Aqueous solution with concentration of 4% pH=1.8. Because it is difficult to make solid, the commodity is usually 50% aqueous solution, a light amber, with light vinegar taste, relative density of 1.2425. Acting as sodium salt or calcium salt with alkali, reducing the sugar into Arabia sugar under the action of peroxide, and being oxidized to formaldehyde, oxalic acid and glyoxylic acid under the action of HIO₄. Preferably stored in stainless steel tanks.

Physical Properties

Melting point,	15 °C
Boiling point,	102 °C
Density,	1.23

Specification

Powder of Food Grade

Description	Colorless crystals or white powder
heavy metals	≤0.002%

Reducing substances	
Lead	≤0.001%
Assay	99.0%-101.0%

50% Solution of Food Grade

Description	Colorless, light yellow transparent, thick meets the requirements Liquid, tasteless Pass or light bad odorless, acid
Chloride	≤0.03%
Arsenic	≤1ppm
Iron	≤0.001%
Heavy metals	≤0.002%
Sulpbate	≤0.024%
Sucrose and reducing	negative
Calcium experiment	negative
Five chlorine phenol	negative
Scorching remains	≤0.1%
Assay (Glucono acid)	50.0~52.0%

Safety

Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1, Gluconic acid calcium salt, ferrous salt, bismuth salt and other salts can be used as medicine; the metal complexes in alkaline system is widely used as a masking agent of metal ions; aqueous solution is used as the food acid; preparation of wine; washing agent; dairy equipment to milk stone agent.
- 2, Protein coagulant and food preservative. For the production of gluconate such as sodium gluconate, potassium gluconate, calcium gluconate, etc..

Packaging

- 25kg per bag
- 20mt per 20ft container

Storage & Handling

Do not store in direct sunlight. Store in a tightly closed container.
Store in a cool, dry, well-ventilated area away from incompatible substances.
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation.
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Keep container tightly closed.
Avoid ingestion and inhalation.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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