



*Specialized in chemicals*

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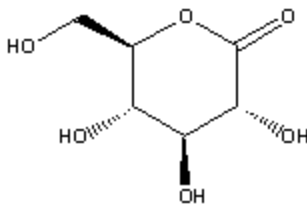
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## Technical Data Sheet

### Glucono-delta-lactone

#### Product Information

Chemical Name	Glucono-delta-lactone
CAS #	90-80-2
Formula	C <sub>6</sub> H <sub>10</sub> O <sub>6</sub>
Molecular Weight	178.14
Synonyms	Delta-Gluconolactone;Glucono-delta-lactone
Chemical Structure	



#### Description

GDL, white crystalline powder, almost odorless, freely soluble in water(60g/ml),has a slightly sweet taste, then sour, sparingly soluble in ethyl alcohol (1g/100ml),almost insoluble ether.

#### Physical Properties

Appearance and Odor:	White crystalline powder
Melting Point:	150---154℃

#### Specification

Item	Specification
Description	Fine, White, practically odorless,Crystalline power.
Solubility	Free soluble in water
Identification	Crystals of phenylhydrazide of gluconic acid melt between 195℃ to 200℃

Melting range	About 160°C
Heavy metals	Not more than 20 ppm
Reducing substance	Not more than 16.1ml of 0.1 N sodium thiosulfate is consumed
Assay	It contains not less than 99.0% and not more than 101.0% of C <sub>6</sub> H <sub>10</sub> O <sub>6</sub>
Lead(Pb)	≤2ppm
As	≤10ppm
Sulphate Ash	≤0.1%
Particle size	20--80mesh

### **Applications**

GDL is a multifunctional excellent food additive, and mainly used as protein coagulant, sour agent, swelling agent, preservative, flavoring agent, chelating agent, color retention agent etc. It is widely used in food, commodity chemical, pharmaceutical, cosmetics, plastics and resin modifying, electroplating, polishing, metal cleaning, organic synthesis and other aspects.

### **Packaging**

In 25kg/bag or upon clients' request.  
20mt per 20GP container.

### **Storage & Handling**

Store in a dry, cool, well-ventilated area away from heat, open flames, organic chemicals and light.

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

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