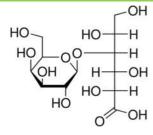
#### **TECHNICAL DATA SHEET**



# **Lactobionic Acid**

### **Chemical Properties**

CAS No.: 96-82-2 INCI name: Lactobionic Acid EINECS No.: 202-538-3 Chemical Formula: C<sub>12</sub>H<sub>22</sub>O<sub>12</sub> Molecular Weight: 358.30



# **Description**

Lactobionic acid, 4-O-β-galactopyranosyl-D-gluconic acid contains gluconic acid and galactose and can be formed by oxidation of lactose, a disaccharide. The carboxylate anion of lactobionic acid is known as lactobionate.

#### **Solubility**

Freely soluble in water, slightly soluble in glacialacetic acid, in anhydrous ethanol and in methanol.

## **Specification**

Appearance Almost white crystalline powder

PH 1.0-3.0 Residue on Ignition Max 0.3%

Specific Rotation  $+23.0 \text{ to } +29.0^{\circ}, C=5,H2O$ 

Heavy Metals(Pb) Max 10ppm Arsenic(As2O3) Max 2ppm Chloride Max 0.035% Water Max 5.0% Sulfate Max 500ppm Calcium Max 500ppm Reducing sugar Max 0.2% Assay 98.0-102.0 % Endotoxin Level Max 10EU/g Aerobic organisms Max 100Col/g Salmonella Negative E.Coli Negative Pseudomonas aeruginosa Negative

#### **Ingredients**

Pure Lactobionic Acid

## Labeling

In the United States and the European Union:Lactobionic Acid98.0%

# Natural Health & Beauty, Nature's Way

To Care, To Share, To Be Well



# **Applications**

- 1)Lactobionic acid is mainly used in preservation solutions for organ transplantation. It is used to produce erythromycinelactobionate.
- 2) Lactobionic acid can be used in the cosmetics industry as an antioxidant, and in the pharmaceutical industry as a salt form; for example, the antibiotic erythromycin is used as the salt erythromycin lactobionate when intravenously delivered.

### **Safety**

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## **Handing recommendations**

Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store in a cool, dry place. Keep container closed when not in use.

# Packaging, Storage & Shelf Life

Package 25kg/drum

Storage Store in a well-closed container away from moisture and direct sunlight.

Shelf Life 2 years if sealed and stored properly.