



*Specialized in chemicals*

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418677

Fax: (0086) 551 65418697

Email: sales21@tnjchem.com

Site: www.tnjchem.com

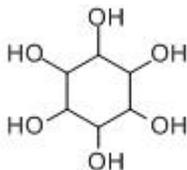
## Technical Data Sheet

# Inositol

### Product Information

Chemical Name Inositol

Chemical structure



CAS #	87-89-8
EINECS	201-781-2
Formula	C6H12O6
Molecular Weight	180.16
Synonyms	1,2,3,4,5,6-Cyclohexanehexol;Hexahydroxycyclohexane

### Description

White crystalline powder,odorless,sweet taste.Slightly soluble in alcohol, glacial acetic acid, ethylene glycol and glycerin, insoluble in ethyl ether, acetone and chloroform.Stability in the air, are stable to heat, acid and alkali, but easy to moisture absorption.

### Physical Properties

Color:White crystalline powder  
Solubility,H2O: 0.5 M at 20 °C, clear, colorless  
Melting Point:224~227°C(lit.)  
Vapor Density: 6.2 (vs air)  
Density,@25 °C: 1.75  
Sensibility:Moisture Sensitive

## Specification

Items	Specification
Appearance	White crystalline powder,odorless
Identification(A.B.C.D)	Positive Reaction
Melting point,%	224.0~227.0
Loss on drying, %	≤ 0.50
Residue on ignition, %	≤ 0.10
Assay, %	≥ 98.0
Chloride, %	≤ 0.005
Sulphate or Calcium Salt, %	≤ 0.006
Oxalate or Calcium Salt, %	≤ 0.006
Iron, ppm	≤ 5.0
Calcium,ppm	Meet specifications
Barium,ppm	Meet specifications
Heavy metals, ppm	≤ 10.0
Total impurities,%	≤ 1.0
Individual impurities,%	≤ 0.3
Lead,ppm	≤ 0.5
Arsenic,ppm	≤ 0.5
Mercury,ppm	≤ 0.1
Cd,ppm	≤ 0.5
Total plant countt,cfu/g	≤ 1000
Mould and yeast,cfu/g	≤ 100
Colon bacillus	Absent

## Applications

Inositol is widely used in Food,Feed, and Pharma industry.

- It can lower cholesterol, promote healthy hair growth, prevent hair loss, eczema, liver fat metabolism, and help the redistribution of body fat, it has Has a calming effect.
- The nutrients of the food industry can be directly taken, children's food, nutrition, promote human metabolism.
- It is the feed additive for fish, shrimp and Livestock ,it can promote the rapid growth of fish, enhance immunity, and achieve a high and stable yield. In the recent years, through demonstration experiments, it proves that inositol is the essential feed additives in aquaculture .
- Inositol is the premise of the synthesis of many biological molecules,it can be used for the synthesis of galactose inositol,and so on.

## Packaging

25kg per fibre drum  
9 MT per 20ft container with pallets,12 MT without pallets.

### **Storage & Handling**

Stored in cool and airy place; away from fire and heat; handle with care;no breakage, avoid leakage.  
It is valid for 4 years under proper condition.

\* Please refer to MSDS for more information about Safety, Storage and Transportation.