



## Technical Data Sheet

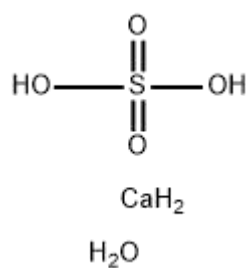
Chemical name: Calcium sulfate dihydrate

CAS No.: 10101-41-4

Molecular formula:  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

Molecular weight: 172.17

Structural formula:



### Sodium sulfonate Properties

Items	Index
Appearance	White powder
Assay	$\geq 99\%$
Clarity	Complies



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HCl insoluble	$\leq 0.025\%$
Chloride	$\leq 0.002\%$
Nitrate	$\leq 0.002\%$
Ammonium Salt	$\leq 0.005\%$
Carbonate	$\leq 0.05\%$
Iron	$\leq 0.0005\%$
Heavy metal	$\leq 0.001\%$
Magnesium and alkali metals	$\leq 0.2\%$

## Application

### Industrial Uses

1. Scale inhibitor: Calcium sulfate dihydrate has good scale inhibition performance and can be used for water treatment in industrial systems to prevent scaling inside pipes and equipment and maintain the normal operation of the system.
2. Industrial raw materials: Calcium sulfate dihydrate can be used as a raw material for preparing other chemical substances, such as gypsum, gypsum board, gypsum powder, etc.
3. Building materials: In the construction industry, calcium sulfate dihydrate can be used as a gypsum product in building materials for the decoration and repair of walls, ceilings, etc.
4. Mining processing agent: In mining processing, calcium sulfate dihydrate can be used as an auxiliary agent in the flotation and purification process to promote the separation and purification of ores.

### Agricultural Uses

1. Soil conditioner: Calcium sulfate dihydrate can adjust the pH of the soil, improve soil structure, increase soil fertility, and promote plant growth.
2. Feed additive: As a calcium source, calcium sulfate dihydrate can supplement the calcium



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element in animals and promote animal growth and bone development.

3. Pesticide raw materials: In agriculture, calcium sulfate dihydrate can be used as a raw material for pesticides, for the preparation of insecticides, fungicides, etc.

## Medical uses

1. Pharmaceutical raw materials: Calcium sulfate dihydrate can be used as a pharmaceutical raw material for the preparation of calcium supplements, antacids and other drugs to treat osteoporosis, hyperacidity and other diseases.

2. Medical materials: It is often used to make plaster bandages for fracture fixation. It has good plasticity and stability and helps the healing of fractures.

3. Dental materials: In the field of dentistry, calcium sulfate dihydrate can be used to make dental molds and filling materials.

4. Wound dressings: It has certain water absorption and air permeability and can be used for dressings of certain wounds.

## Food uses

1. Food additives: Calcium sulfate dihydrate can adjust the pH of food, increase the hardness and taste of food, and play a role as a coagulant in the production of foods such as tofu.

2. Preservatives: It is used for the preservative treatment of food, beverages, etc. to extend the shelf life of food.

## **packaging**

25kg/bag