Calcium Chloride

# General Characteristics:

**Formula:** CaCl2(anhydrous); CaCl2·2H2O(dihydrate)

**Molecular weight:** 110.98(anhydrous); 147.01(dihydrate)

Calcium chloride occurs as white, hard fragments, granules,

**Appearance:** or powder.

**Odor:** Odorless, slight bitterness.

**CAS Number:** anhydrous [10043-52-4]; dihydrate [10035-04-8]

**EINECS No.:** 233-140-8

**INS:** 509

**Solubility:** In water -Soluble; In alcohol -soluble.

# Uses:

* Nutrient supplement、Stabilizer and coagulant.
* Thickener、 Processing agent、Tissue improver.
* Chelant、Calcium intensifier、Refrigerant for freezing.
* Desiccant and anticaking agent 、Inhibitory microbiological agent .

# Packing and storage:

* 25kg net paper bag and PE bags sealed inside.
* Store in a well-closed bag at room temperature, protect from light, moisture and pest infestation.
* Shelf life--- two years

# GMO-Status:

The product is a non GMO product and is free from any recombinant DNA.

# Irradiation/Radioactivity:

Yunbo’s Calcium chloride was never subjected to any kind of ionized irradiation and contains no radioactivity not even in minor amounts.

# BSE/TSE:

No raw materials from bovine origin are used nor are any bovine constituents present in the product.

# Specifications:(FCC/E509/USP/EP)

**Calcium Chloride(Anhydrous)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Parameter** | **FCC** | **E509** | **USP-NF** |
| Assay【CaCl2】% | 93.0~100.5% | ≥93.0% | ≥99.0% |
| Test for calcium | Passes test | Passes test | Passes test |
| Test for chloride | Passes test | Passes test | Passes test |
| pH | **/** | **/** | 4.5-9.2 |
| Fluoride | ≤ 0.004%. | ≤ 0.004%. | **/** |
| Arsenic | ≤3.0ppm | ≤3.0ppm | **/** |
| Lead | ≤5.0ppm | ≤2.0ppm | **/** |
| Mercury | **/** | ≤1.0ppm | **/** |
| Heavy metals（Pb） | **/** | **/** | ≤ 0.001%. |
| Acid-insoluble matter | ≤0.02% | **/** | **/** |
| Magnesium and Alkali Salts | ≤5.0% | ≤5.0% | ≤1.0% |

**Calcium Chloride(Dihydrate)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Parameter** | **FCC** | **E509** | **USP-NF** | **Ph.Eur** |
| Assay【CaCl2·2H2O】% | 99.0%~107.0% | **/** | 99.0%~107.0% | 97.0%~103.0% |
| Test for calcium | Passes test | Passes test | Passes test | Passes test |
| Test for chloride | Passes test | Passes test | Passes test | Passes test |
| pH | **/** | **/** | 4.5-9.2 | **/** |
| Fluoride | ≤ 0.004%. | ≤ 0.004%. | **/** | **/** |
| Sulfates | **/** | **/** | **/** | ≤ 300.0ppm |
| Arsenic | ≤3.0ppm | ≤3.0ppm | **/** | **/** |
| Lead | ≤5.0ppm | ≤2.0ppm | **/** | **/** |
| Mercury | ***/*** | ≤1.0ppm | **/** | **/** |
| Aluminium | **/** | **/** | **/** | ≤1.0ppm |
| Iron | **/** | **/** | **/** | ≤10.0ppm |
| Barium | **/** | **/** | **/** | Passes test |
| Heavy metals（Pb） | ***/*** | **/** | ≤ 0.001%. | **/** |
| Acid-insoluble matter | ≤0.02% | **/** | **/** |  |
| Magnesium and Alkali | ≤4.0%. | ≤5.0% | ≤1.0% | ≤0.5% |