

FCC FOOD GRADE LIQUID CALCIUM CHLORIDE

Product Data Sheet

General Description

TETRA Chemicals produces FCC food Grade liquid calcium chloride (CaCl₂) under Good Manufacturing Practice (GMP) as an odorless, slightly alkaline, clear, colorless to slightly colored fluid, which is available from 32% to 41%.

- The United Orthodox Synagogues certifies that the production plant is kosher and that the food grade calcium chloride is also kosher for use during Passover.
- The plant quality management system complies with the requirements of BS EN ISO 9002:1994 and has certificate number FM 38434 from the British Standards Institution (BSI).

Applications

TETRA FCC Food Grade liquid calcium chloride is used primarily in the food and beverage industry in processing or packaging applications where Food and Drug Administration (FDA) approval for use of a briners grade is not acceptable. It enables apple blossoms to stay on the tree by strengthening the blossom's bond to the tree, resulting in more fruit. Calcium chloride increases the firmness of fruits and vegetables including tomatoes, cherries, olives, and pickles. It also prevents breakup during processing and cooking.

In cheese processing, calcium chloride is added to pasteurized skim milk to help coagulate the curds, increase firmness, and replace calcium lost by heating. Water used to manufacture soft drinks and beer is first demineralized and then remineralized with calcium chloride to assure uniform taste, regardless of the processing location.

Availability

FCC food grade liquid calcium chloride is available from select plant and terminal locations throughout North America. For the location nearest you, contact your TETRA sales or customer service representative.

TETRA Chemicals

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Safety and Handling

Calcium chloride is a strong salt solution. Protective clothing, rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, since calcium chloride can damage leather. This product should be handled in areas with proper ventilation. Before using this product, refer to the MSDS (available on the Company's website) for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

PHYSICAL PROPERTIES

Appearance	Clear/colorless liquid
Odor	None
Assay	32 to 41% by weight CaCl ₂
Crystallization Temperature	-19.5°F (-28.6°C) to 61.5°F (16.39°C)
Specific Gravity @ 68°F (20°C)	1.308 to 1.415
Bulk Density	10.9 to 11.79 lb/gal

CHEMICAL PROPERTIES

Chemical	CaCl ₂
pH	Slightly alkaline
Impurities (on 100% CaCl₂ basis)	
Alkali Chlorides	< 0.1% by weight
Magnesium (as MgCl₂)	< 0.1% by weight
Other Impurities (not H₂O)	< 1.0% by weight
Specifications	
Identification	To pass test
Assay	To pass test
Alkalinity (as CaOH₂)	not > 0.03% by weight
Fluoride (as F)	not > 40 mg/kg*
Heavy Metals (as Pb)	not > 20 mg/kg*
Lead (Pb)	not > 10 mg/kg*
Magnesium and Alkali Salts (MgCl₂)	not > 5.0% by weight*

*Calculated on the CaCl₂ determined in the assay %