

NATURAL FOOD GRADE LIQUID CALCIUM CHLORIDE

Product Data Sheet

General Description

TETRA natural food grade liquid calcium chloride is a clear to slightly colored liquid available in concentrations from 32 to 39% CaCl₂. Natural calcium chloride is produced by solar evaporation of naturally occurring brines. It meets or exceeds FCC specifications for alkalinity, fluoride, heavy metals, and lead. Because it is a natural product, it is not exposed to other chemicals during the production process. Natural calcium chloride contains small amounts of sodium chloride and potassium chloride that are carried over from the natural brine feedstock.

Natural calcium chloride is manufactured under controlled conditions to ensure the purity and safety of the product. Each lot is tested to ensure the purity and quality of the product.

Applications

Calcium chloride has many uses in the food and beverage industry. It increases the firmness of fruits and vegetables including tomatoes, cherries, olives, and pickles. It prevents breakup during processing and cooking. In cheese processing, it is added to pasteurized skim milk to help coagulate the curds, increase firmness, and replace calcium lost by heating. Water used in the soft drink and beer industry is first de-mineralized and is then re-mineralized with calcium chloride in order to assure uniform taste regardless of the processing location. Natural calcium chloride may be used in any application where small amounts of sodium and potassium do not interfere with the intended use of the calcium chloride or the final product. This includes nearly all applications for food grade calcium chloride.

Availability

TETRA natural food grade calcium chloride is available in tank trailers or rail cars from sites in southwestern California.

TETRA Chemicals

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Safety and Handling

Liquid calcium chloride is a strong salt solution. Wear appropriate protective, impervious clothing. Wear safety glasses with non-flexible side shields or chemical goggles for proper protection of the eyes. Wear appropriate protective non-leather protective gloves and boots. Chemical protective gloves and boots such as PVC or Nitrile are recommended. Leather products do not offer adequate protection and will dehydrate with resultant shrinkage and possible destruction. This product should be handled in areas with proper ventilation. Before using this product, refer to the SDS which is available on the Company's website for complete safety and handling guidelines.

PHYSICAL PROPERTIES

Appearance	Clear, nearly colorless liquid
Odor	None
Crystallization Temperature	-20°F (-29°C) to 45°F (8°C)
Specific Gravity @ 68°F (20°C)	1.33 to 1.43

CHEMICAL PROPERTIES

Chemical Formula	CaCl ₂
Concentration	32% to 39% CaCl ₂
pH	7.0 to 10.0
Specifications	
Alkalinity (as Ca(OH)₂)	< 0.3% by weight
Potassium	< 1% by weight
Sodium	< 0.5% by weight
Magnesium	< 0.1% by weight
Arsenic	< 3 mg/kg*
Fluoride (as F)	< 40 mg/kg*
Heavy Metals (as Pb)	< 20 mg/kg*
Lead (Pb)	< 4 mg/kg*

*Calculated on the CaCl₂ concentration