



LIQUID CALCIUM CHLORIDE (32%)

GENERAL DESCRIPTION:

Produced by TETRA Chemicals, FCC Food Grade liquid calcium chloride is an odorless, slightly alkaline, clear, colorless to slightly colored fluid, which is available in 32% to 41% solution.

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.

In Brewing applications, calcium chloride may be used as a salt for water adjustment for the purposes of lowering pH. Calcium chloride is particularly useful in adding calcium to water that is low in chlorides. Calcium chloride may also be used in very small amounts to sweeten the final beer product.

SAFETY & 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 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% CaCl ₂ basis)	
Alkali Chlorides	< 0.1% by weight
Magnesium (as MgCl ₂)	< 0.1% by weight
Other Impurities (not H ₂ O)	< 1.0% by weight
Specifications	
Identification	To pass test
Assay	To pass test
Alkalinity (as CaOH ₂)	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 (MgCl ₂)	not > 5.0% by weight*
*Calculated on the CaCl ₂ determined in the assay %	