

BRINERS GRADE CALCIUM CHLORIDE

Product Data Sheet

General Description

Briners Grade calcium chloride (CaCl₂) is a white, odorless, high quality granular calcium chloride with 93 to 97 weight percent CaCl₂.

Applications

Briners Grade calcium chloride is used by canners and processors during the post-harvest treatment of fruits and vegetables to increase firmness and prevent breakup during processing and cooking. When dissolved in potable water and filtered, Briners Grade meets the FCC requirements for aqueous solutions of calcium chloride.

Uses of Briners Grade calcium chloride include:

Pickles. Placing fresh cucumbers in a solution containing .5% calcium chloride and 7.0% sodium chloride reduces softening during fermentation.

Apples. Immersing apples in a solution containing 3.0 to 8.0% calcium chloride reduces cork spotting and bitter-pit problems.

Cherries. Brining sweet cherries in a solution containing 2.5 to 4.0% calcium chloride preserves their firmness.

Olives. Brining black ripe and Greek olives in a solution containing 0.5 to 1.0% calcium chloride maintains their firmness.

Availability

Briners Grade calcium chloride is packaged in 50lb bags, 50 bags per pallet, and is available to ship from TETRA's facility in Westlake (Lake Charles), Louisiana.

TETRA Chemicals

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Safety and Handling

Briners Grade calcium chloride generates considerable heat when mixed with water. In solid or solution form, this product may irritate or burn eyes and is a skin, ingestion, and inhalation irritant. 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.

CHEMICAL PROPERTIES

Chemical	CaCl ₂
Appearance	White granule
Odor	None
Assay	Typically 93 to 97% by weight CaCl ₂
Bulk Density	Approx. 47-51 lb/cubic foot
pH	7.0 to 10.5 (at 5 to 38% wt solutions)

TYPICAL ANALYSIS *

Calcium Chloride	≥ 93% by weight
Magnesium and Alkali Salts	≤ 5% by weight
Fluoride (as F)	≤ 40 mg/kg
Heavy Metals (including Pb)	≤ 20 mg/kg
Lead (Pb)	≤ 5 mg/kg
Arsenic (as As)	≤ 3 mg/kg
*impurities based on 100% CaCl ₂ basis	

TYPICAL SCREEN ANALYSIS

Screen Number:	Cumulative Wt. %, Retained	
	Minimum	Maximum
6 (3.36mm)	0.0	10.0
16 (1.19mm)	40.0	100.0
20 (0.81 mm)	85.0	100.0