

From Chris Holdcroft:



BRINERS GRADE CALCIUM CHLORIDE

Granular Calcium Chloride Product Data Sheet

General Description

TETRA Chemicals' briners grade calcium chloride is a white, odorless, high-quality granular calcium chloride with 94-97% CaCl₂ by weight. This product is an appropriate choice for FDA approved processing applications.

Applications

TETRA 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.

Uses of briners grade calcium chloride include:

- Pickles - To reduce softening during fermentation, fresh cucumbers are placed in a tank containing a solution of .5% calcium chloride and 7.0% sodium chloride.
- Apples - Immersing apples in a 3.0 - 8.0% calcium chloride solution reduces cork spotting and bitter-pit problems.
- Cherries - Brining sweet cherries in a 2.5 - 4.0% solution of calcium chloride preserves their firmness.
- Olives - Black Ripe and Greek olives are brined in a solution containing 0.5 - 1.0% calcium chloride to maintain their firmness.

Chemical Properties

Color.....White
 Odor.....Odorless
 Chemical Formula.....CaCl₂
 Concentration.....Typically 94 - 97% by weight calcium chloride
 Bulk Density.....Approximately 55 pounds per cubic foot
 pH.....7.0 to 10.0

Typical Analysis (impurities on a 100% basis)

Calcium Chloride than 94%	Not less
Magnesium and Alkali Salts	Less than 2%
Arsenic more than 3 ppm	Not
Fluoride 40 ppm	Not more than
Heavy Metals (as lead) more than 20 ppm	Not
Lead more than 10 ppm	Not

Typical Screen Analysis

Screen Number:
 4 (4.76 mm).....100% passing
 16 (2.38 mm).....80-100% passing
 40 (0.42 mm).....0-5% passing

Packaging

TETRA Chemicals' briners grade calcium chloride is packaged in 50 lb. (22.7 kg) plastic bags at TETRA's ISO 9002 registered plant in Westlake (Lake Charles), Louisiana.

Safety and Handling

Protective clothing, rubber gloves, and a face shield or safety goggles are recommended. Rubber safety boots should also be worn in work areas since concentrated solutions of calcium chloride can damage leather. Consult local regulatory authorities for proper disposal of calcium chloride wastes.

Always use cool water (less than 80°F or 27°C) when making calcium chloride solutions. Calcium chloride has a high heat of solution.

Contact your TETRA representative for a copy of the Material Safety Data Sheet.

Technical Support

TETRA briners grade calcium chloride product supported by technical assistance from personnel with extensive product knowledge and experience. Chemical engineers, chemists and lab technicians are on hand to provide customer support in areas such as process validation, development and engineering. Twenty-four hour technical assistance is also available by calling: (800) 327-7817.

Web Site

<http://www.tetratec.com>

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TETRA's Lake Charles, LA, facility is ISO 9002 Certified. BSI certificate number FM 38434