

34% FOOD GRADE CALCIUM CHLORIDE LIQUID E509

Product Data Sheet

General Description

Food grade calcium chloride is produced under strict supervision to ensure high levels of purity and consistency. The product complies with EC 2008/84, FCC, and FAO standards. To ensure that the product meets our stringent demands, comprehensive analysis techniques are employed before the product is shipped. A Certificate of Analysis is provided with this product.

Applications

TETRA food grade calcium chloride is used in various applications within the food, beverage, potable water, and pharmaceutical industries. Some examples of common applications are listed below.

- In the production of beer and soft drinks, CaCl₂ is used as a source of calcium to regulate the hardness of water.
- In enzyme production, the calcium ion acts as a co-factor in some products.
- In the production of cheese, CaCl₂ is used as a source of calcium.
- CaCl₂ is also used to increase the firmness of canned fruits and pickled vegetables.
- In the remineralisation of desalinated water, CaCl₂ is also used as a source of both calcium and chloride.
- CaCl₂ is also used as a secondary cooling agent in various processes that operate according to food regulations.
- CaCl₂ is used as a calcium source in animal feed.

Availability

Liquid food grade calcium chloride is produced in Sweden. It is available worldwide through our network of distributors as a bulk liquid in tank trucks or in 1000 litre IBCs.

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Safety and Handling

Calcium chloride is a strong salt. 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. 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 to slightly yellow
Odor	None
Crystallization Temperature	-20°C
Typical Density @ 20°C	1330 kg/m ³

CHEMICAL PROPERTIES				
Parameter	Unit	Specification	Typical Value	FCC 6:th ed Limit
CaCl₂ Concentration	%	> 33.5	34	90-110% of labelled value
pH (in 5% CaCl₂ solution @ 20°C)	-	7 - 9	7.9	4.5 - 11
Insoluble in water	%	N/A	< 0.01	N/A
Mg and Alkali Salts	%	0.4	0.15	1.7
Alkalinity as Ca(OH)₂	%	< 0.10	< 0.01	0.3
F	mg/kg	< 10	7	13
Heavy metals (as Pb)	mg/kg	< 7	< 7	N/A
Fe	mg/kg	N/A	0.2	N/A
Pb	mg/kg	< 1.4	0.4	1.4
As	mg/kg	< 0.1	< 0.05	1
Hg	mg/kg	< 0.05	< 0.005	N/A
Ba	mg/kg	N/A	1	N/A
Br	mg/kg	N/A	350	N/A

FCC limit values are recalculated to levels in the product at actual concentration.

SPECIFICATIONS	
•	FAO Nutrition Meetings Reports No. 55 B
•	Food Chemicals Codex (FCC), 6 th edition, 2008
•	EC 2008/84

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